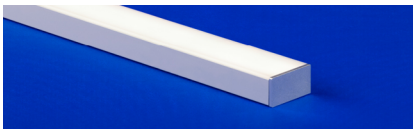
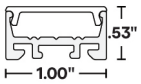
OPTI-FLAT (01) FOR TUNABLE APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed





- Choose from diffused, polar or frosted lens options for varying diode visibility and beam cutoff
- Delivers smooth and consistent light to highlight architectural features and surfaces
- Ideal for surface-mounted installations
- Integrated metal end caps combined with an extruded aluminum housing give this fixture a polished modern look
- When using DALI and DMX power supplies, LED wattage must be doubled

INFORMATION REQUIRED FOR LIGHTING SCHEDULE

1 PRODUCT	2 WATTS/ FT	3 CCT	4 RATED	5 LENS

ADDITIONAL INFORMATION REQUIRED TO ORDER

6 WIRE INPUT/ OUTPUT	7 CONNECTOR/ WIRE IN	8 CONNECTOR/ WIRE OUT	9 WIRE COLOR	10 WIRE TYPE	11 MOUNTING	12 FINISH	13 LENGTH (IN)	14 EXACT/ OPTIMAL

Sample Part Number: **OP1DW-2.5HE-20/30-DRY-DF-P1-CON6-CON6-WH-CL2-CC-WH-48"-E**

1 PRODUCT

OP1DW
OP1DW-USA

Select USA option for BAA and BABA projects. Only DRY or WET ratings apply.

LED engine is built with 3 wires requiring 0-10V, DMX or DALI control.
Using DALI, DMX, or non QTL power supplies may double watts/ft. See following pages for compatible power supplies.

2 WATTS/FT

1.5HE	1.5W/ft HE
2.5HE	2.5W/ft HE
4.0HE	4.0W/ft HE

1.5HE	1.5W/ft HE
2.5HE	2.5W/ft HE

3 CCT

18/30	1800K/3000K
18/35	1800K/3500K
20/27	2000K/2700K
20/30	2000K/3000K
24/40	2400K/4000K
27/40	2700K/4000K
27/55	2700K/5500K

18/30	1800K/3000K
18/35	1800K/3500K
20/27	2000K/2700K
20/30	2000K/3000K
24/40	2400K/4000K
27/40	2700K/4000K
27/55	2700K/5500K

4 RATED

DRY	IP20

DMP	IP54
WET	IP67

Can be suitable for exterior use, contact factory for more information

5 LENS

DF	Diffused
PR	Polar
FR	Frosted

6 WIRE INPUT/OUTPUT

SINGLE (Input only)	
S1	End Feed
S2	Bottom Feed

PASS THROUGH (Input/Output)	
P1	End Feed
P2	Bottom Feed

For continuous mounting, consider bottom feed.

7 CONNECTOR/WIRE IN

BW	Bare Wire (Standard 36")
CON6	Connector 6"
CON24	Connector 24"

BW: Standard length is 36", Max length is 120". Request custom length by writing in part number next to BW (example: BW48)

8 CONNECTOR/WIRE OUT

CLS	Closed End (No feed)

BW	Bare Wire (Standard 36")
CON6	Connector 6"
CON24	Connector 24"

BW: Standard length is 36", Max length is 120". Request custom length by writing in part number next to BW (example: BW48)

9 WIRE COLOR

WH	White
BK	Black

10 WIRE TYPE

CL2	Class 2
CL2P	Plenum Rated

CL2P only available with bare wire leads (BW)

11 MOUNTING

CC	Concealed Clip
MG	Magnet

12 FINISH

ST	Satin
BK	Black
WH	White
CU	Custom

Custom finishes have longer lead times. Non-RAL 9003 whites custom.

13 LENGTH (IN)

Minimum length is 12", maximum length is 98.43" not including end caps. Contact us for lengths under 12".

14 EXACT/OPTIMAL

O	Optimal Illumination
E	Exact Specified Length

Exact fixtures are the exact length specified +0 -1/8". Optimal fixtures' length is rounded down with illumination end to end. See Exact/Optimal Fixture Length charts.

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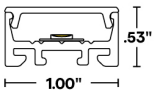
Specification subject to change. Rev-10-21-26

5 year warranty | Warranty only valid with QTL power supplies | Field modifications void warranty | Data subject to change, all data has +/- 5% tolerance

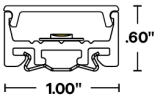
OPTI-FLAT (01) FOR TUNABLE APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed

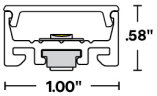
1 PRODUCT - DIMENSIONS



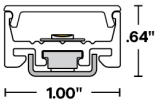
Profile



Profile with concealed clip



Profile with magnet clip



Profile with magnet mount clip and magnet mount accessory

2 DELIVERED LUMENS

[Calculated L70 = 70000 hrs]
Tested with OP1DW-**-30-DRY

	1.5HE W/FT		2.5HE W/FT		4.0HE W/FT	
	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI
FR	146	98	219	98	310	98
PR	136	98	206	98	292	98
DF	121	98	182	98	258	98

5 DIODE VISIBILITY



DF - Diffused lens

PR - Polar lens

FR - Frosted lens

TEMPERATURE RATINGS

		DW 1.5 HE W/FT		DW 3.0 HE W/FT		DW 2.5 HE W/FT		DW 5.0 HE W/FT		DW 4.0 HE W/FT		DW 8.0 HE W/FT	
		QTL power supply other than DALI, DMX		DALI, DMX, or non-QTL power supply		QTL power supply other than DALI, DMX		DALI, DMX, or non-QTL power supply		QTL power supply other than DALI, DMX		DALI, DMX, or non-QTL power supply	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
DRY	Ambient Operating Temp - Surface	-4°F	145°F	-4°F	135°F	-4°F	140°F	-4°F	125°F	-4°F	130°F	-4°F	115°F
DMP	Ambient Operating Temp - Surface	-4°F	145°F	-4°F	135°F	-4°F	140°F	-4°F	125°F	—	—	—	—
WET	Ambient Operating Temp - Surface	**	**	**	**	**	**	**	**	—	—	—	—

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Specification subject to change. Rev-10-21-26

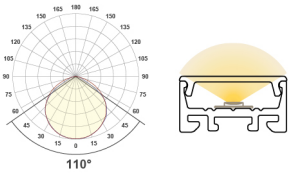
OPTI-FLAT (01) FOR TUNABLE APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed

PHOTOMETRIC PERFORMANCE

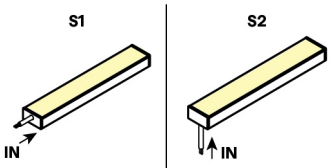
Nominal beam spread shown, beam spread varies based on light engine. For more detailed information, see photometric data.

2.5HEW/ft Frosted Lens



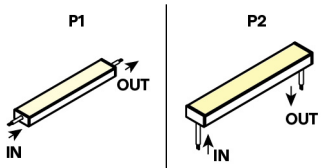
6 WIRE INPUT/OUTPUT

SINGLE (Input only)



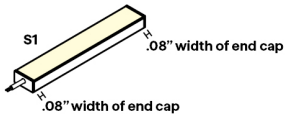
End Feed | Bottom Feed

PASS THROUGH (Input/Output)

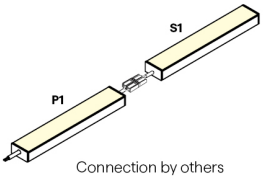


End Feed | Bottom Feed

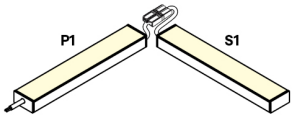
CONFIGURATION OPTIONS



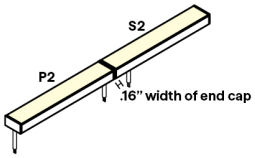
Single End Feed



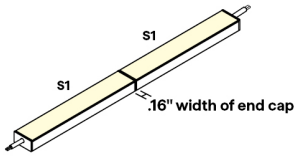
Non-Continuous End Feed



Non-Continuous Corner Feed



Continuous Bottom Feed



Single End Feed

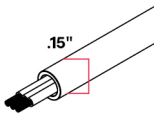
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OPTI-FLAT (01) FOR TUNABLE APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed

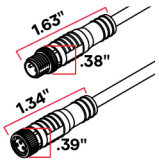
7/8 CONNECTOR/WIRE – IN/OUT

BW



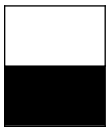
Bare Wire 36"
22 AWG

CON6/CON24



6" or 24" Overall
Wire Connector | 22 AWG
IP67 Rated, UL Listed

9 WIRE COLOR

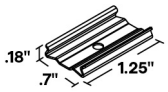


White

Black

11 MOUNTING

CC
(CC-01)



Concealed Clip

2 pieces of hardware provided for 4' or less; 4 pieces of hardware provided for greater than 4'

To order separately use CC-01 (sold in pairs)

Each clips comes with a #4 x 5/8" Flat Head screw.

MG

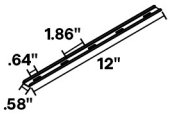


Magnet Clip

One MG provided per foot

To order separately use MG-02

MMA-02



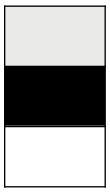
Magnet Mount
Accessory for MG-02

Sold separately, to order use MMA-02

Each bracket comes with 2 #6 x 5/8" Flat Head SS

Required when mounting to a non-magnetic surface

12 FINISH



Satin

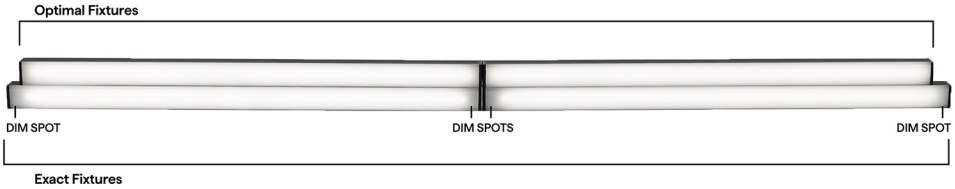
Black

White

Custom finishes have longer lead times. Non-RAL 9003 whites custom.

14 EXACT/OPTIMAL FIXTURE LENGTH

Exact fixtures are the exact length specified +0 -1/8". Optimal fixtures' length is rounded down based on LED cut points to allow the fixture to be illuminated end to end. For runs with multiple fixtures that need to fill a specific length, it's recommended to order all optimal fixtures with an exact fixture at the end of the run.



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Specification subject to change. Rev-10-21-26

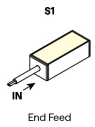
OPTI-FLAT (01) FOR TUNABLE APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed

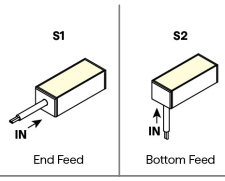
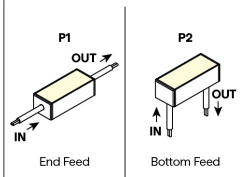
DW-HE DRY DMP LENGTHS BY INCH

Available in any length in between 12" and 98.43" not including end caps, chart below shows example lengths. Exact fixtures are the length specified. Optimal fixtures' length is rounded down with illumination end to end. All fixtures' tolerance is +0 – 1/8". Consult factory for lengths under 12".

EXACT LENGTH

Requested Length	Potential dim spot on either end of a S1 fixture 
12"	1"
13"	0.5"
14"	1"
15"	0.5"
16"	1"
17"	0.5"
18"	1"
19"	0.5"
20"	1"
21"	0.5"
22"	1"
23"	0.5"
24"	1"
36"	1"
48"	1"
60"	1"
72"	1"
84"	1"
96"	1"

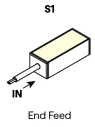
OPTIMAL LENGTH

Requested Nominal Length	S1 & S2 	P1 & P2 
12"	10.51"	10.86"
13"	12.51"	12.86"
14"	12.51"	12.86"
15"	14.51"	14.86"
16"	14.51"	14.86"
17"	16.51"	16.86"
18"	16.51"	16.86"
19"	18.51"	18.86"
20"	18.51"	18.86"
21"	20.51"	20.86"
22"	20.51"	20.86"
23"	22.51"	22.86"
24"	22.51"	22.86"
36"	34.51"	34.86"
48"	46.51"	46.86"
60"	58.51"	58.86"
72"	70.51"	70.86"
84"	82.51"	82.86"
96"	94.51"	94.86"

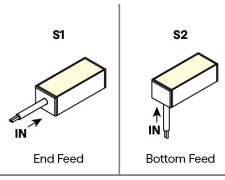
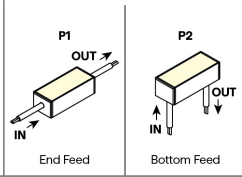
DW-HE WET LENGTHS BY INCH

Available in any length in between 12" and 98.43" not including end caps, chart below shows example lengths. Exact fixtures are the length specified. Optimal fixtures' length is rounded down with illumination end to end. All fixtures' tolerance is +0 – 1/8". Consult factory for lengths under 12".

EXACT LENGTH

Requested Length	Potential dim spot on either end of a S1 fixture 
12"	1"
13"	0.5"
14"	1"
15"	0.5"
16"	1"
17"	0.5"
18"	1"
19"	0.5"
20"	1"
21"	0.5"
22"	1"
23"	0.5"
24"	1"
36"	1"
48"	1"
60"	1"
72"	1"
84"	1"
96"	1"

OPTIMAL LENGTH

Requested Nominal Length	S1 & S2 	P1 & P2 
12"	10.66"	11.06"
13"	12.66"	11.06"
14"	12.66"	13.06"
15"	14.66"	13.06"
16"	14.66"	15.06"
17"	16.66"	15.06"
18"	16.66"	17.06"
19"	18.66"	17.06"
20"	18.66"	19.06"
21"	20.66"	19.06"
22"	20.66"	21.06"
23"	22.66"	21.06"
24"	22.66"	23.06"
36"	34.66"	35.06"
48"	46.66"	47.06"
60"	58.66"	59.06"
72"	70.66"	71.06"
84"	82.66"	83.06"
96"	94.66"	95.06"

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OPTI-FLAT (01) FOR TUNABLE APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed

COMPATIBLE POWER SUPPLIES

See power supplies cut sheets for more information. Data subject to change, all data has +/- 5% tolerance.

DIM TO LEVEL	INDOOR	OUTDOOR
	DW-HE Tunable Applications	DW-HE Tunable Applications
0.1%	QT-CAB-eLED+DALI-DT6 QT-CAB-eLED+DALI-DT8 QT-CAB-eLED+DALI-DT8-AWN QT-CAB-eLED+TW QTM-eLED+DALI-DT6 QTM-eLED+DALI-DT8 QTM-eLED+DALI-DT8-AWN QTM-eLED+TW QZ-DMX	Q-SET-QZ-DMX QOM-eLED+DALI-DT6 QOM-eLED+DALI-DT6-PS QOM-eLED+DALI-DT8 QOM-eLED+DALI-DT8-PS QOM-eLED+TW QZ-DMX
1%	QZ-DALI-DT8	Q-SET+QZ-DALI-DT8 QZ-DALI-DT8
10%	Non-Dim Power Supply with TW App Dongle	

DIMMING PROTOCOL	INDOOR	OUTDOOR
	DW-HE Tunable Applications	DW-HE Tunable Applications
0-10V	QT-CAB-eLED+TW QTM-eLED+TW	QOM-eLED+TW
Lutron Athena	QT-CAB-eLED+DALI-DT8-AWN QTM-eLED+DALI-DT8-AWN	
DMX LED wattage must be doubled for DW-HE products	QZ-DMX	Q-SET-QZ-DMX QZ-DMX
DALI-2: DT6 LED wattage must be doubled for DW-HE products except for AWN	QT-CAB-eLED+DALI-DT6 QTM-eLED+DALI-DT6	QOM-eLED+DALI-DT6
DALI-2: DT8 LED wattage must be doubled for DW-HE products except for AWN	QT-CAB-eLED+DALI-DT8 QT-CAB-eLED+DALI-DT8-AWN QTM-eLED+DALI-DT8 QTM-eLED+DALI-DT8-AWN QZ-DALI-DT8	Q-SET+QZ-DALI-DT8 QOM-eLED+DALI-DT8 QZ-DALI-DT8
SCENE App Dimmed	Non-Dim Power Supply with TW App Dongle	

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OPTI-FLAT (01) FOR TUNABLE APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed

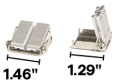
COMPATIBLE MOUNTING ACCESSORIES

HINGE - HMB-M



Adjustable mounting bracket - Medium

HINGE - HMB-L



Adjustable mounting bracket - Large

HINGE - HMB-XL



Adjustable mounting bracket - XLarge

Q-PIVOT



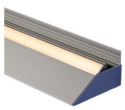
Small mounting accessory

Q-ANGLE



Adjustable mounting accessory

QUOVA-STANDARD



QUOVA Knife Edge

NJ-LARGE



J Mounting Bracket

NU-LARGE



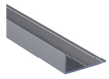
U Mounting Bracket

SD-J-LARGE



J Mounting Bracket

BL-LARGE



Backwards L Mounting Bracket

NL-LARGE



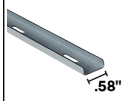
L Mounting Bracket

SD-L-LARGE



L Mounting Bracket

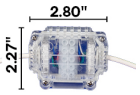
MMA-02



Magnet Mount Accessory of MG-02

COMPATIBLE WIRING ACCESSORIES

Q-mini-J5



UL Listed, miniature junction box, DRY/DMP (WET rated with silicone)

COMPATIBLE CONTROL ACCESSORIES

SCENE APP DONGLE



Wi-Fi or Bluetooth Connectivity

COMPATIBLE APPS

NFC APP

Q-NFC

Read and write DMX addresses and adjust voltage

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Specification subject to change. Rev-10-21-26

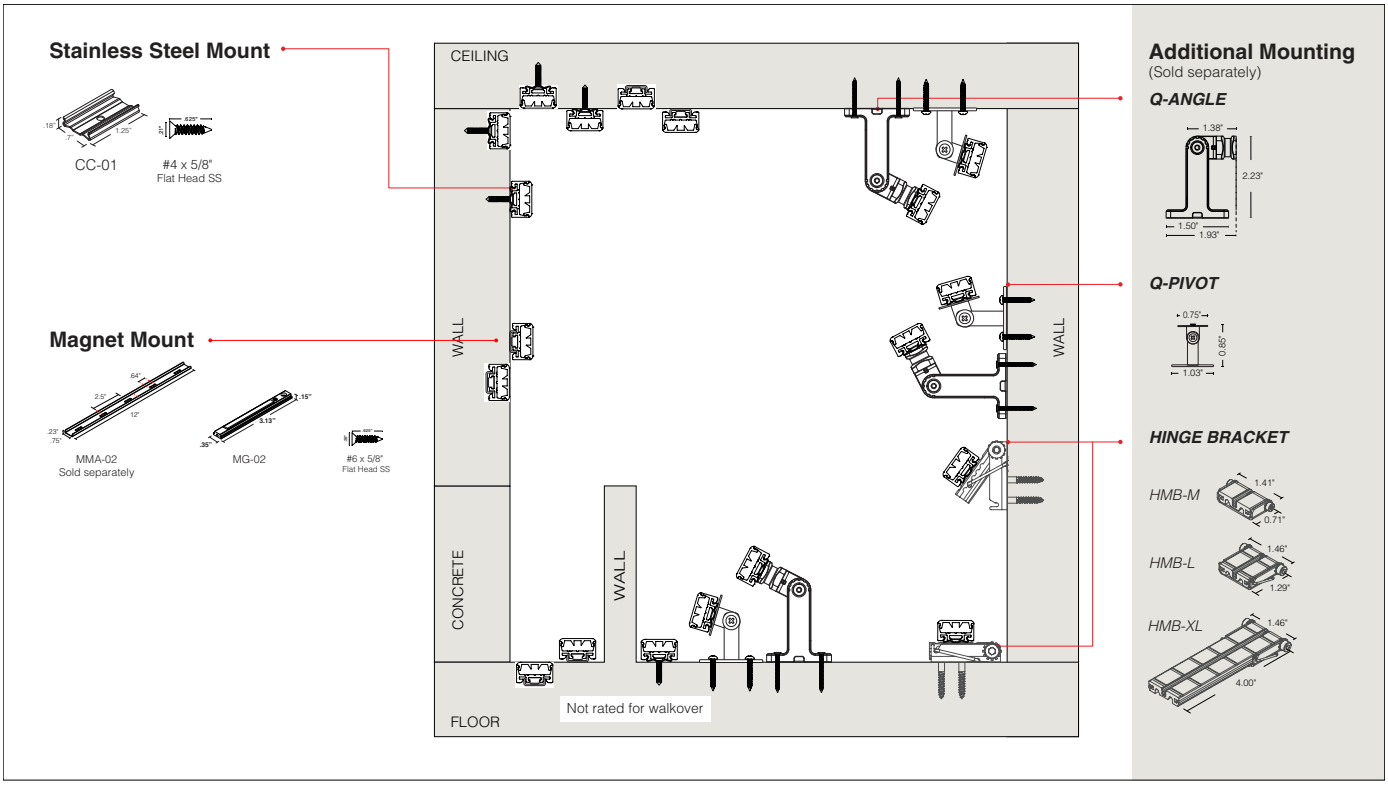
OPTI

Linear Fixture Installation Instructions

ATTENTION: Please read all instructions BEFORE installation

- Product to be installed by a licensed electrician - Field modifications void warranty
- Use only with Class 2 power supply unit — Warranty only valid with QTL power supplies
- Surface mount or recessed in millwork
- Suitable for installation in storage area of a clothes closet when assembled as a finished fixture up to 4W/ft at QTL facility
- Not rated for walkover
- Input Voltage: 24VDC
- Diagrams for representation only and not to scale.

METHODS OF INSTALLATION:



Surface Mounting Method

- Screw Mount (page 4)
- Magnet Mount (page 5)

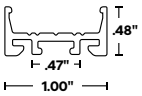
Recessed Mounting Method

- Screw Mount : Millwork (page 6)
- Magnet Mount : Millwork (page 7)

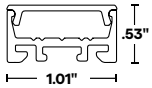
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OPTI

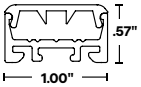
Linear Fixture Installation Instructions



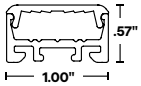
OPTI Profile



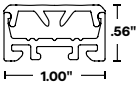
FLAT Lens



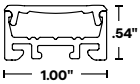
40D Lens



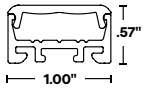
60D Lens



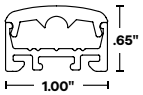
70D Lens



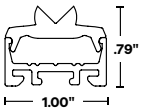
90D Lens



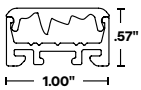
110D Lens



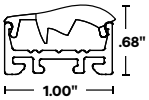
155D Lens



180D Lens



Asymetric Lens

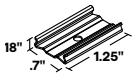


Foward throw Lens

COMPONENTS & HARDWARE

Alternate screw lengths can be used in installation as long as the screw diameter size is consistent with the included screw diameter size

CONCEALED CLIP



CC-01

Included	
	Flat Head Screw #4x5/8"

- 2 clips provided for 4' or less; 4 clips provided for greater than 4'

MAGNET CLIP



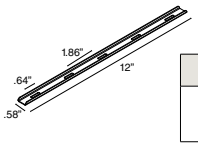
MG-02

Included	
	Flat Head Screw #6x5/8"

- One magnet clip per foot

ACCESSORIES SOLD SEPARATELY

MAGNET MOUNT ACCESSORY; sold individually



MMA-02

Included
Flat Head Screw #6x5/8"

- MMA-02 comes in 12" pieces; use at least one clip per MMA-02 accessory
- MMA-02 can be cut into smaller pieces, if desired

HINGE BRACKET; sold individually

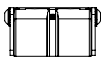
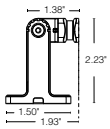


Image shows HMB-M

HMB-M
HMB-L
HMB-XL

Included
• 3/4" long mount screw • 1/4" #4 clip mount screw

Q-ANGLE; sold in pairs



Q-ANGLE

Included
• 3/4" long mount screw • 1/4" #4 clip mount screw

Q-PIVOT; sold in pairs



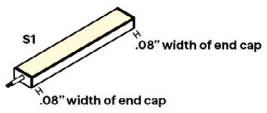
Q-PIVOT

Included
• SS #4-40x3/16 Flat head screw • 2 #4x3/4 Pan head screws

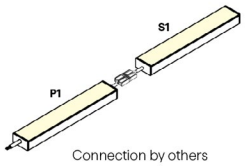
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CONFIGURATION OPTIONS

OPTI FLAT

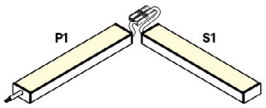


Single End Feed



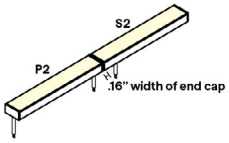
Connection by others

Non-Continuous End Feed

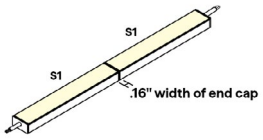


Connection by others

Non-Continuous Corner Feed

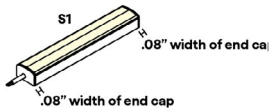


Continuous Bottom Feed

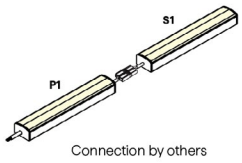


Single End Feed

OPTI OPTICS

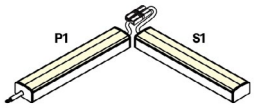


Single End Feed



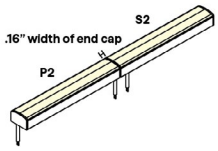
Connection by others

Non-Continuous End Feed

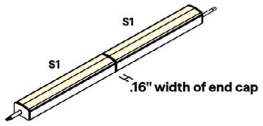


Connection by others

Non-Continuous Corner Feed



Continuous Bottom Feed



Single End Feed

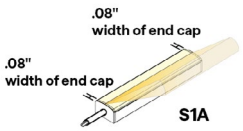
Review wire method to ensure clean installation prior to mounting extrusion.

NOTE: Additional wire methods include:
S1, S2, : Connector/Wire Input only
P1, P2 : Connector/Wire Input and Output

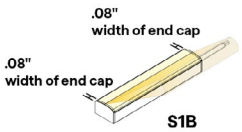
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CONFIGURATION OPTIONS CONTINUED

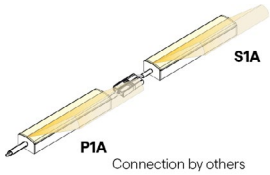
OPTI ASYMMETRIC/ FORWARD THROW



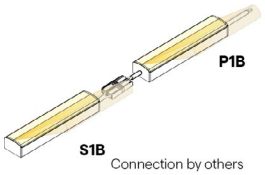
Single End Feed



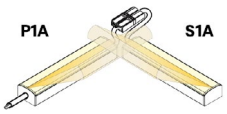
Single End Feed



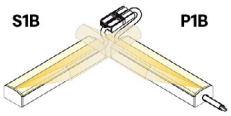
Connection by others
Non-Continuous End Feed



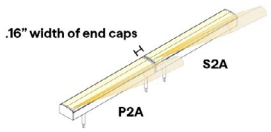
Connection by others
Non-Continuous End Feed



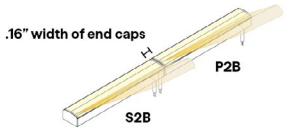
Connection by others
Non-Continuous Corner Feed



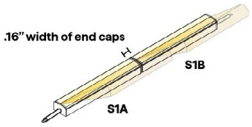
Connection by others
Non-Continuous Corner Feed



Continuous Bottom Feed



Continuous Bottom Feed



Single End Feed

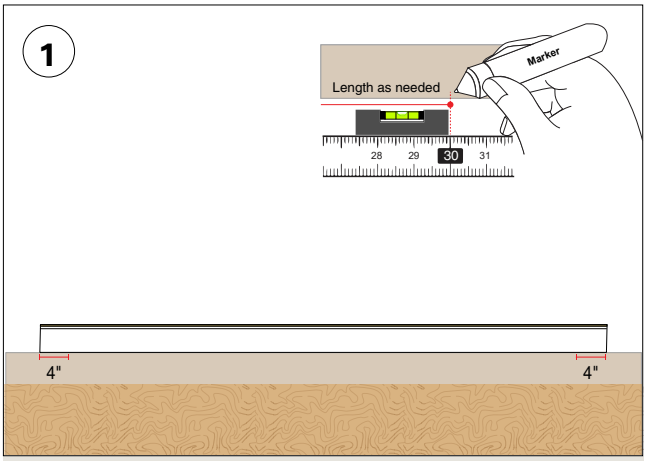
Review wire method to ensure clean installation prior to mounting extrusion.

NOTE: Additional wire methods include:
S1A, S1B, S2A, S2B : Connector/Wire Input only
P1A, P1B P2A, P2B : Connector/Wire Input and Output

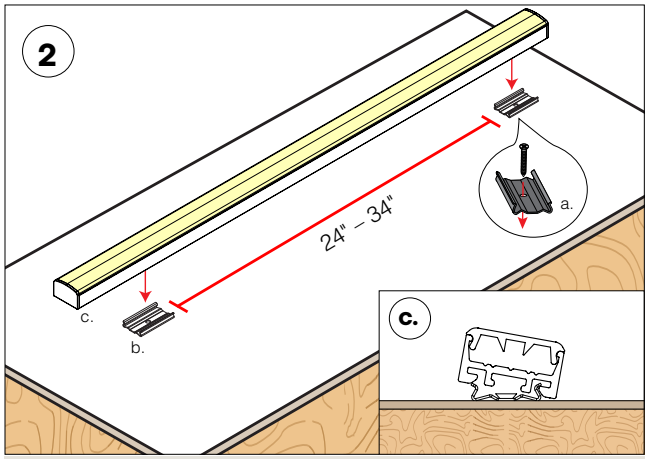
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SURFACE MOUNTING METHOD: **SCREW MOUNT**

- 2 clips provided for 4' or less; 4 clips provided for greater than 4'



Determine the OPTI fixture(s) location and positioning on desired surface; evenly distribute clips. Make any necessary reference markings to indicate where each clip is to be secured in place. Recommended every 24" - 30".

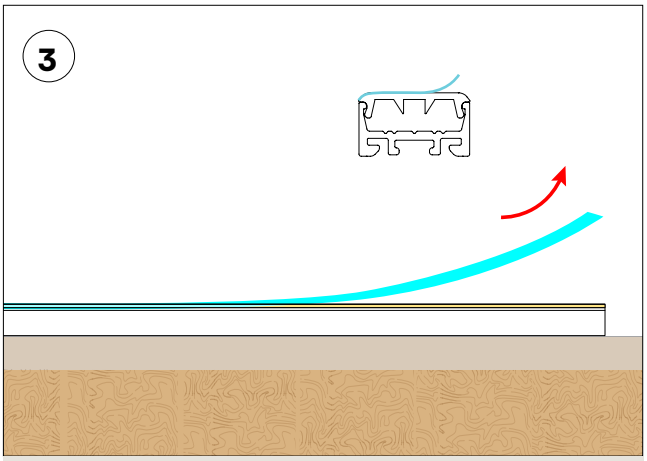


a. Secure clips using the #4 flat head hardware provided. The first and last clip should be placed 4" inward from each end of the fixture.

b. Ensure the screw head is flush with the clip's base.

c. Snap fixture onto clips. Make a secure connection with the clip by tilting and snapping on

NOTE: Flat head screw type is dependent on surface/application material. Alternative flat head screws may be required. Refer to the surface material manufacturer for suggested screw type.

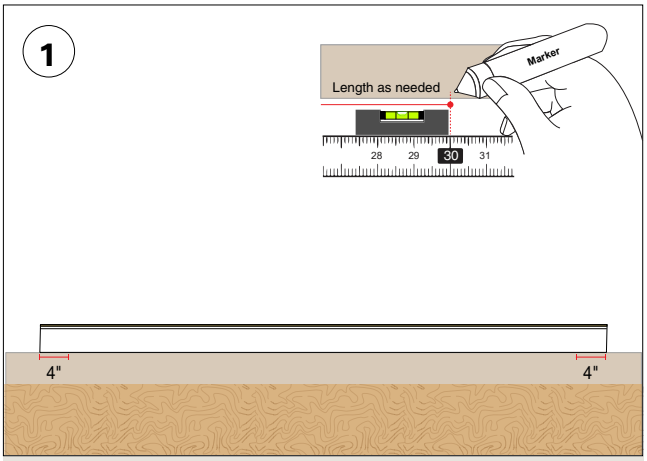


Remove protective film from the surface of the fixture's lens.

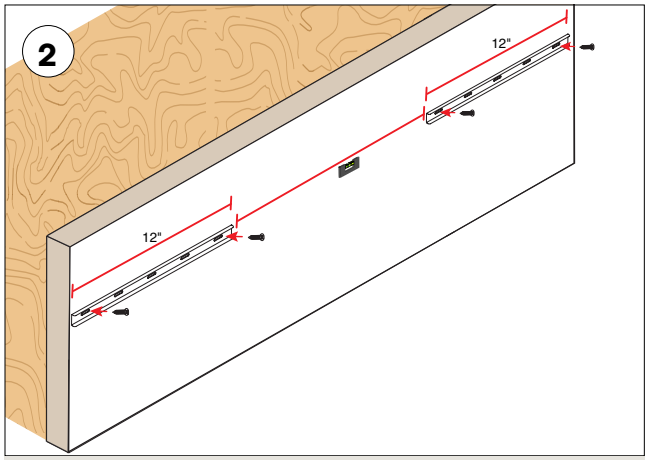
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SURFACE MOUNTING METHOD: **MAGNET MOUNT**

- One magnet clip per foot
- MMA-02 comes in 12" pieces; use at least one clip per MMA-02 accessory
- MMA-02 can be cut into smaller pieces, if desired

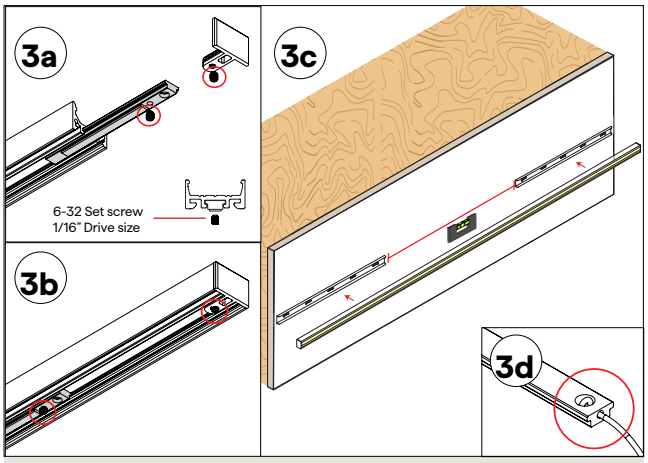


Determine the OPTI fixture(s) location and positioning on desired surface. Make any necessary reference markings to indicate where the magnet mount accessory bracket is to be secured in place.



Mount the two #6 flat head screws into the 12" magnet mount accessory brackets through the slotted holes at each end. Ensure the screw head is flush with the magnet mount bracket.

NOTE: If surface application requires a longer screw, the screw size must be a #6 Flat Head.



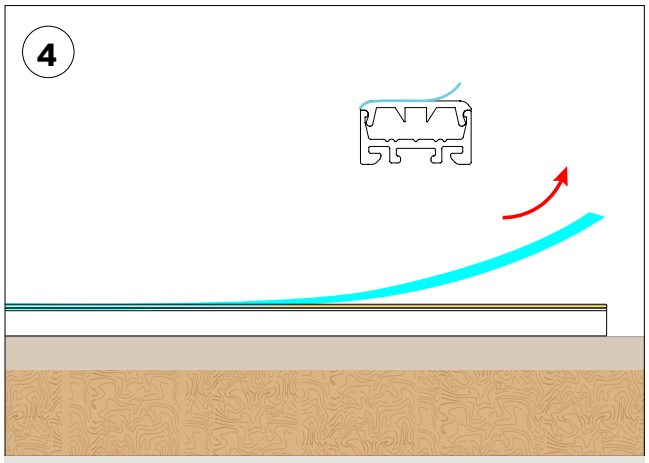
a. Unscrew the Non-Feed OPTI endcap using an allen key, and slide in the magnet clips.

b. Using the supplied set screw fasten the Non-Feed endcap that was removed, and secure the magnet clips into your desired location.

c. Place the assembled fixture into the magnet mount bracket.

d. For installations requiring seismic precautions, monofiliment may be used with magnet clips as pictured.

NOTE: The magnet clips should be offset to the flat heads used to secure the bracket, to maximize magnetic connection.

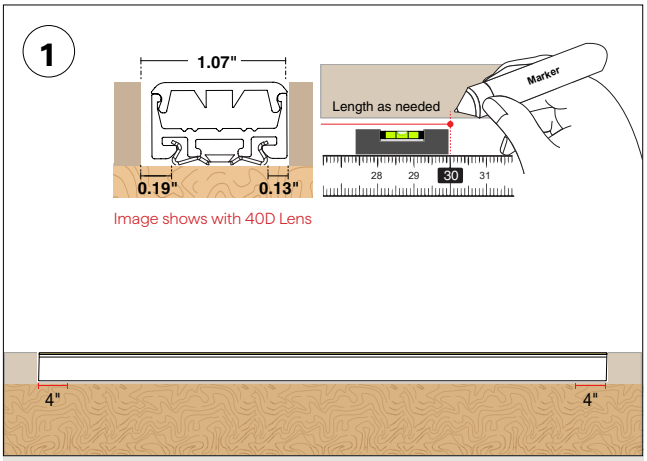


Remove protective film from the surface of the fixture's lens.

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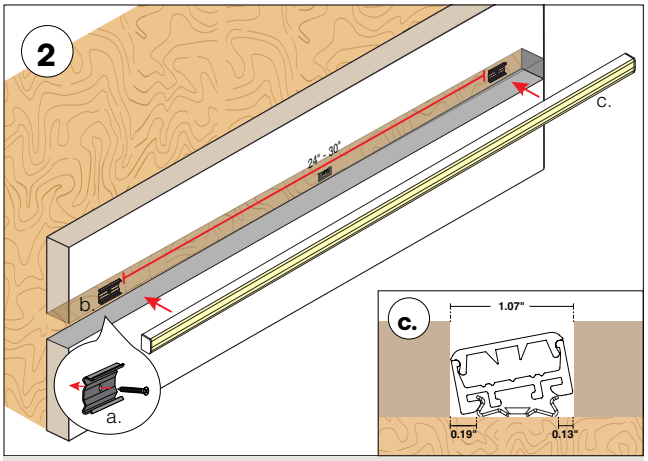
RECESSED MOUNTING METHOD: **MILLWORK SCREW MOUNT**

- 2 clips provided for 4' or less; 4 clips provided for greater than 4'



Determine the OPTI fixture(s) location and positioning on desired surface; evenly distribute clips. Make any necessary reference markings to indicate where each clip is to be secured in place. Recommended every 24" - 30".

NOTE: OPTI requires cut out to be at least 1.07" wide. The clip must be placed with 0.19" of space on the wider side. Depth of the channel in the millwork is dependent on overall height with the clip.

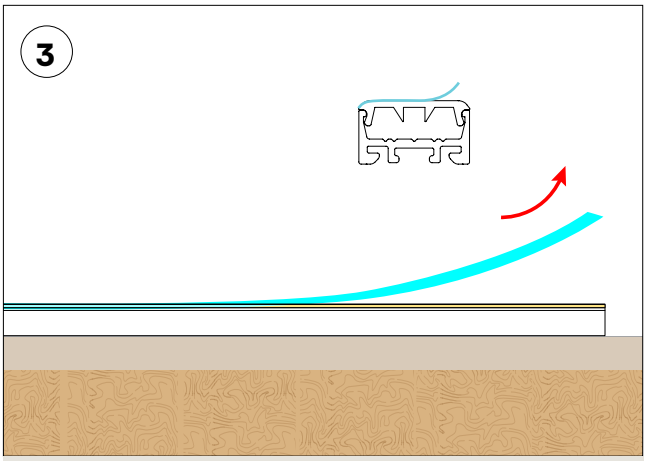


a. Secure clips using the #4 flat head hardware provided. The first and last clip should be placed 4" inward from each end of the fixture.

b. Ensure the screw head is flush with the clip's base.

c. Snap fixture onto clips. Make a secure connection with the concealed clip by tilting and snapping on

NOTE: Flat head screw type is dependent on surface/application material. Alternative flat head screws may be required. Refer to the surface material manufacturer for suggested screw type.

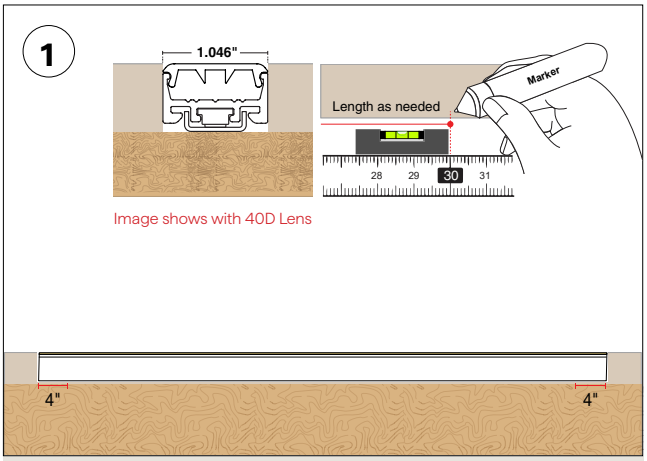


Remove protective film from the surface of the fixture's lens.

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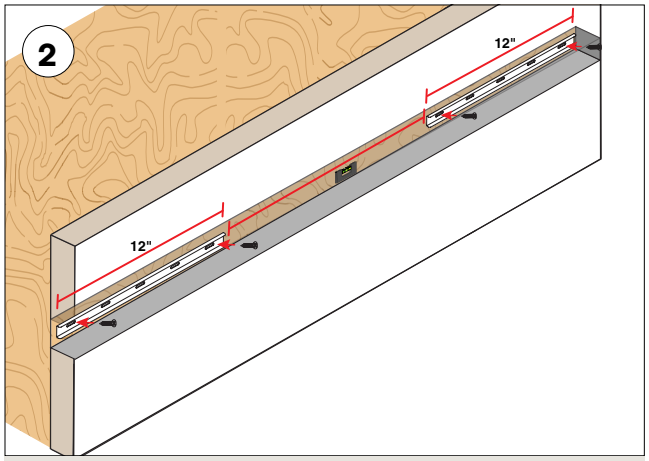
RECESSED MOUNTING METHOD: **MILLWORK MAGNET MOUNT**

- One magnet clip per foot
- MMA-02 comes in 12" pieces; use at least one clip per MMA-02 accessory
- MMA-02 can be cut into smaller pieces, if desired



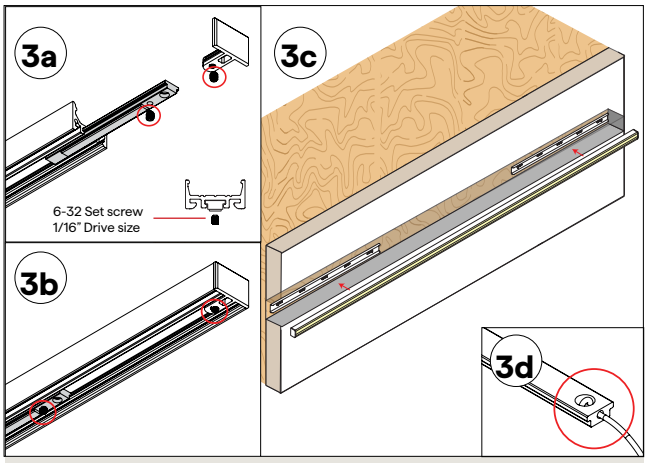
Determine the OPTI fixture(s) location and positioning on desired surface. Make any necessary reference markings to indicate where the magnet mount accessory bracket is to be secured in place.

NOTE: Depth of the channel in the millwork is dependent on overall height with the magnet clip and Magnet Mount Accessory.



Mount the two #6 flat head screws into the 12" magnet mount accessory brackets through the slotted holes at each end. Ensure the screw head is flush with the magnet mount bracket.

NOTE: If surface application requires a longer screw, the screw size must be a #6 Flat Head.



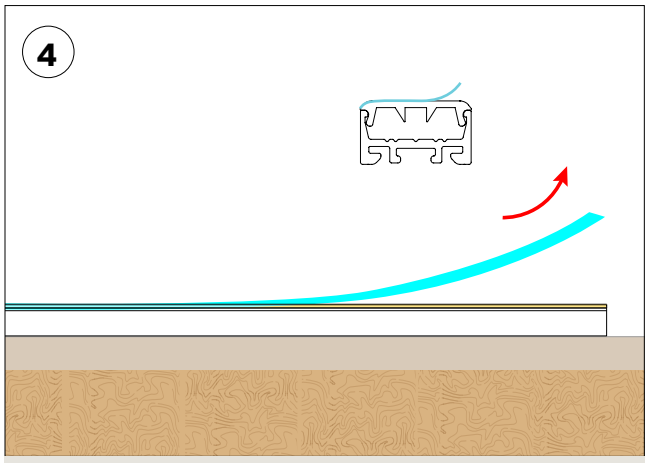
a. Unscrew the Non-Feed OPTI endcap using an allen key, and slide in the magnet clips.

b. Using the supplied set screw fasten the Non-Feed endcap that was removed, and secure the magnet clips into your desired location.

c. Place the assembled fixture into the magnet mount bracket.

d. For installations requiring seismic precautions, monofiliment may be used with magnet clips as pictured.

NOTE: The magnet clips should be offset to the flat heads used to secure the bracket, to maximize magnetic connection.



Remove protective film from the surface of the fixture's lens.

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OPTI-FLAT-DW-HE(01)

Linear Fixtures Color Data

OP1DW-1.5HE-30-DRY-FR-ST

3123 K

CRI: 98.1

CRI R9: 98.2

TM30 Rf: 94.4

TM30 Rg: 101.1

CQS: 95.6

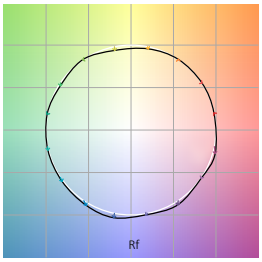
X: 0.427

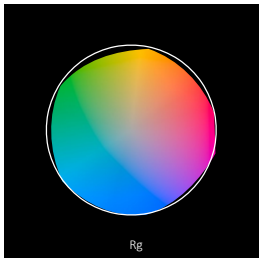
Y: 0.398

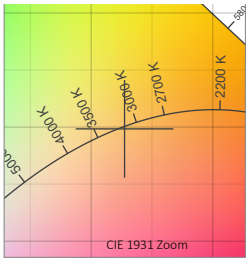
U: 0.247

V: 0.345

Δ uv: -0.0009







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97.6	99.3	96.5	98.1	98.3	97.1	98.9	98.9	98.2	99.3	95.7	83.1	97.9	97.0	98.0
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
93.8	97.1	92.1	92.9	96.0	98.2	95.7	97.6	97.2	97.5	98.3	97.9	97.9	96.5	95.8
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
96.3	97.8	96.8	95.2	93.7	97.1	93.3	97.8	94.1	91.3	91.2	92.3	95.5	93.3	92.5	90.3

TM30			
Hue Bin	R_f	Chroma	Hue
1	96	0%	1%
2	98	0%	0%
3	97	0%	0%
4	95	-2%	-1%
5	94	-4%	1%
6	97	0%	1%
7	93	-2%	3%
8	98	0%	1%
9	94	1%	4%
10	91	1%	5%
11	91	3%	5%
12	92	5%	0%
13	96	1%	-3%
14	93	4%	-3%
15	93	0%	-1%
16	90	3%	-8%

OP1DW-1.5HE-30-DRY-PR-ST

3107 K

CRI: 98.0

CRI R9: 98.5

TM30 Rf: 94.5

TM30 Rg: 101.1

CQS: 95.6

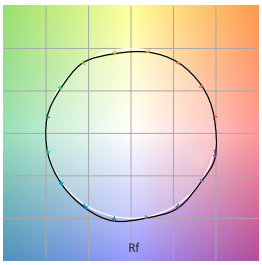
X: 0.428

Y: 0.398

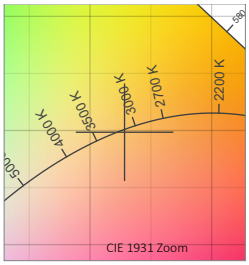
U: 0.247

V: 0.345

Δ uv: -0.0010







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97.4	99.1	96.6	97.9	98.1	97.0	99.0	98.9	98.5	99.5	95.5	83.4	97.7	97.0	97.8
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
93.8	97.0	92.1	93.0	96.1	98.1	95.7	97.6	97.2	97.5	98.3	97.8	97.8	96.4	95.8
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
96.4	97.8	96.7	95.3	93.7	97.1	93.3	97.8	94.2	91.5	91.3	92.3	95.5	93.3	92.6	90.4

TM30			
Hue Bin	R_f	Chroma	Hue
1	96	0%	1%
2	98	0%	-1%
3	97	0%	0%
4	95	-2%	-1%
5	94	-4%	1%
6	97	0%	1%
7	93	-2%	3%
8	98	0%	1%
9	94	1%	4%
10	92	1%	5%
11	91	3%	5%
12	92	5%	0%
13	96	1%	-3%
14	93	4%	-3%
15	93	0%	-1%
16	90	3%	-8%

OP1DW-1.5HE-30-DRY-DF-ST

3096 K

CRI: 97.9

CRI R9: 98.7

TM30 Rf: 94.5

TM30 Rg: 101.2

CQS: 95.7

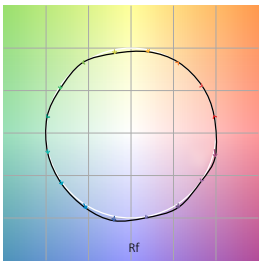
X: 0.429

Y: 0.398

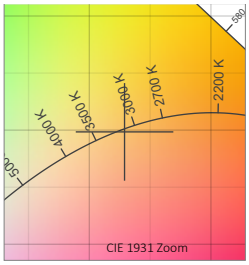
U: 0.248

V: 0.345

Δ uv: -0.0011







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97.2	99.0	96.6	97.7	97.9	96.9	99.0	98.8	98.7	99.6	95.1	83.7	97.4	97.0	97.6
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
93.9	97.1	92.3	93.2	96.2	98.0	95.7	97.6	97.2	97.5	98.4	97.7	97.7	96.3	95.7
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
96.4	97.8	96.7	95.3	93.8	97.1	93.3	97.8	94.3	91.7	91.5	92.4	95.6	93.5	92.6	90.5

TM30			
Hue Bin	R_f	Chroma	Hue
1	96	0%	1%
2	98	0%	-1%
3	97	0%	0%
4	95	-2%	-1%
5	94	-4%	1%
6	97	1%	1%
7	93	-2%	3%
8	98	1%	1%
9	94	1%	4%
10	92	1%	5%
11	92	3%	5%
12	92	5%	0%
13	96	1%	-3%
14	93	4%	-3%
15	93	0%	-1%
16	90	3%	-7%

NOTES:
- CRI R values, only R1-R8 are used to calculate RA CRI values
- TM30 C values, 16 binned values out of total of 99 C values
- CQS Q values
- Data subject to change, all data has +/- 5% tolerance

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Specification subject to change. Rev-01-31-25

OPTI-FLAT-DW-HE(01)

Linear Fixtures Color Data

OP1DW-2.5HE-20-DRY-FR-ST

2029 K

CRI: 92.6

CRI R9: 58.4

TM30 Rf: 88.8

TM30 Rg: 103.2

CQS: 79.3

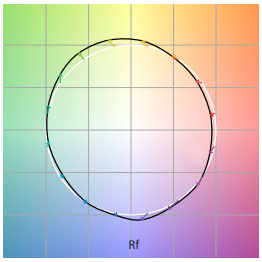
X: 0.523

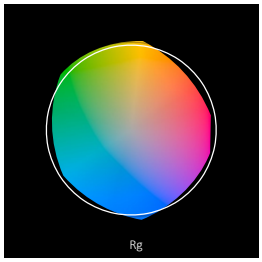
Y: 0.412

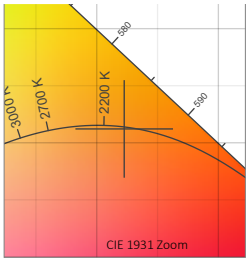
U: 0.303

V: 0.358

Δuv: -0.0005







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93.4	96.5	96.8	93.7	92.9	97.4	90.3	79.6	58.4	90.1	95.9	90.0	94.4	96.4	87.8
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
74.3	84.1	81.2	82.3	80.3	75.4	74.0	77.8	86.2	83.4	83.5	82.9	82.6	78.4	76.4
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
89.5	88.1	86.8	88.4	89.9	87.9	85.5	88.3	90.7	93.5	91.5	89.2	89.7	73.4	85.7	87.2

TM30			
Hue Bin	R_f	Chroma	Hue
1	89	-5%	-1%
2	88	-4%	5%
3	87	-1%	7%
4	88	5%	7%
5	90	9%	5%
6	88	9%	1%
7	86	6%	-8%
8	88	1%	-9%
9	91	-2%	-5%
10	94	-4%	0%
11	92	0%	4%
12	89	2%	3%
13	90	6%	-9%
14	73	2%	-15%
15	86	1%	-11%
16	87	-4%	-8%

OP1DW-2.5HE-20-DRY-PR-ST

2026 K

CRI: 92.7

CRI R9: 59.0

TM30 Rf: 88.7

TM30 Rg: 103.4

CQS: 79.2

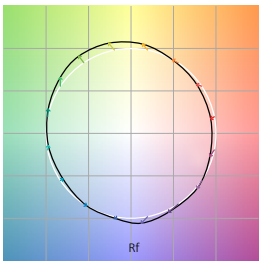
X: 0.523

Y: 0.412

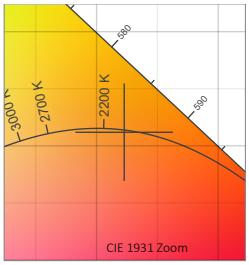
U: 0.303

V: 0.358

Δuv: -0.0006







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93.6	96.6	96.8	93.9	93.1	97.5	90.4	79.9	59.0	90.3	96.1	90.4	94.6	96.4	88.0
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
74.1	84.0	81.2	82.4	80.1	75.2	73.7	77.6	86.1	83.3	83.3	82.7	82.5	78.5	76.4
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
89.6	88.1	86.8	88.2	89.7	87.6	85.2	87.9	90.4	93.6	91.7	89.3	89.7	73.5	85.8	87.4

TM30			
Hue Bin	R_f	Chroma	Hue
1	90	-5%	-1%
2	88	-4%	5%
3	87	-1%	7%
4	88	6%	7%
5	90	9%	5%
6	88	10%	1%
7	85	6%	-8%
8	88	1%	-9%
9	90	-2%	-5%
10	94	-4%	0%
11	92	0%	4%
12	89	2%	3%
13	90	6%	-9%
14	73	2%	-15%
15	86	1%	-10%
16	87	-4%	-8%

OP1DW-2.5HE-20-DRY-DF-ST

2019 K

CRI: 93.0

CRI R9: 60.0

TM30 Rf: 89.0

TM30 Rg: 103.4

CQS: 79.2

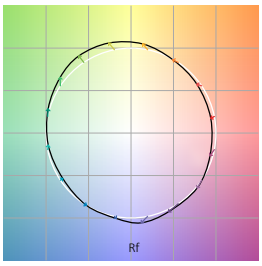
X: 0.524

Y: 0.412

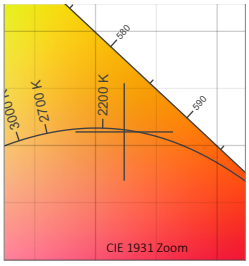
U: 0.304

V: 0.358

Δ uv: -0.0006







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93.9	96.7	96.7	94.2	93.5	97.7	90.6	80.4	60.0	90.6	96.4	90.8	94.9	96.3	88.3
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
74.2	83.8	81.2	82.4	80.1	75.1	73.8	77.7	85.9	83.2	83.4	82.8	82.5	78.6	76.5
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
89.8	88.4	87.2	88.5	89.9	87.8	85.4	88.2	90.6	93.7	91.9	89.5	89.7	73.7	86.0	87.6

TM30			
Hue Bin	R_f	Chroma	Hue
1	90	-5%	-1%
2	88	-4%	5%
3	87	-1%	7%
4	89	6%	7%
5	90	9%	5%
6	88	10%	1%
7	85	6%	-8%
8	88	1%	-9%
9	91	-2%	-5%
10	94	-4%	0%
11	92	0%	4%
12	89	2%	3%
13	90	6%	-9%
14	74	2%	-15%
15	86	1%	-10%
16	88	-4%	-8%

NOTES:
- CRI R values, only R1-R8 are used to calculate RA CRI values
- TM30 C values, 16 binned values out of total of 99 C values
- CQS Q values
- Data subject to change, all data has +/- 5% tolerance

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Specification subject to change. Rev-01-31-25

OPTI-FLAT-DW-HE(01)

Linear Fixtures Color Data

OP1DW-2.5HE-27-DRY-FR-ST

2772 K

CRI: 97.9

CRI R9: 95.1

TM30 Rf: 95.0

TM30 Rg: 100.6

CQS: 95.7

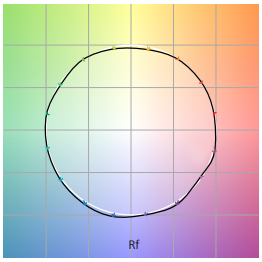
X: 0.454

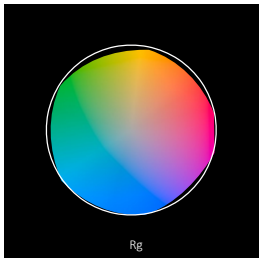
Y: 0.409

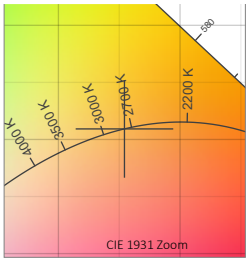
U: 0.260

V: 0.351

Δuv: -0.0001







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97.7	99.3	96.7	97.2	98.1	97.0	98.7	98.2	95.1	99.6	94.3	87.4	97.8	96.9	98.9
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
93.3	95.9	93.8	94.9	97.0	96.9	96.0	97.7	97.0	97.5	96.9	96.2	96.5	96.0	95.1
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
96.6	97.8	96.6	94.5	96.0	97.0	93.8	97.2	95.4	93.8	93.1	92.8	94.6	93.3	94.2	90.8

TM30			
Hue Bin	R_f	Chroma	Hue
1	97	-1%	0%
2	98	0%	-1%
3	97	0%	0%
4	94	-3%	-2%
5	96	-2%	1%
6	97	0%	2%
7	94	-2%	3%
8	97	1%	1%
9	95	1%	3%
10	94	2%	4%
11	93	3%	4%
12	93	4%	-1%
13	95	1%	-4%
14	93	3%	-4%
15	94	-1%	0%
16	91	1%	-7%

OP1DW-2.5HE-27-DRY-PR-ST

2768 K

CRI: 97.8

CRI R9: 96.1

TM30 Rf: 95.1

TM30 Rg: 100.8

CQS: 95.7

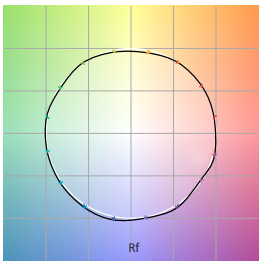
X: 0.454

Y: 0.409

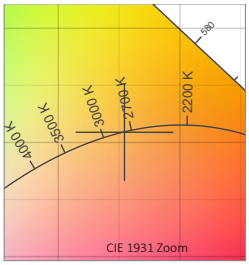
U: 0.260

V: 0.351

Δuv: -0.0002







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97.4	99.1	96.6	96.9	97.8	96.9	98.8	98.6	96.1	99.9	93.9	87.7	97.5	96.9	98.8
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
93.4	96.0	93.8	95.0	97.2	96.6	95.9	97.7	96.9	97.6	96.9	96.1	96.5	96.0	95.2
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
96.7	97.8	96.6	94.6	96.0	97.0	93.8	97.2	95.6	94.1	93.3	92.9	94.7	93.4	94.3	90.9

TM30			
Hue Bin	R_f	Chroma	Hue
1	97	0%	0%
2	98	0%	-1%
3	97	0%	0%
4	95	-3%	-2%
5	96	-2%	1%
6	97	1%	2%
7	94	-1%	3%
8	97	1%	1%
9	96	1%	2%
10	94	2%	4%
11	93	3%	4%
12	93	4%	-1%
13	95	1%	-4%
14	93	3%	-4%
15	94	-1%	0%
16	91	1%	-7%

OP1DW-2.5HE-27-DRY-DF-ST

2762 K

CRI: 97.6

CRI R9: 97.2

TM30 Rf: 95.1

TM30 Rg: 100.9

CQS: 95.7

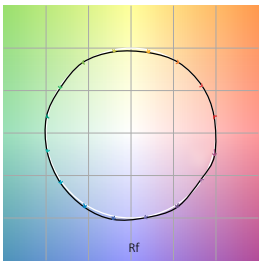
X: 0.455

Y: 0.409

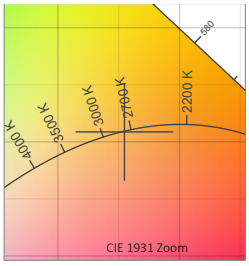
U: 0.260

V: 0.351

Δuv: -0.0003







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97.0	98.9	96.7	96.5	97.4	96.6	99.0	99.0	97.2	99.5	93.3	88.0	97.1	96.9	98.5
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
93.5	96.0	94.1	95.4	97.4	96.5	95.9	97.8	96.9	97.8	96.7	95.9	96.3	95.9	95.2
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
96.8	97.7	96.4	94.6	96.1	96.9	93.7	97.0	95.6	94.3	93.6	93.0	94.8	93.6	94.3	91.2

TM30			
Hue Bin	R_f	Chroma	Hue
1	97	0%	0%
2	98	0%	-1%
3	96	0%	0%
4	95	-3%	-2%
5	96	-2%	1%
6	97	1%	2%
7	94	-1%	3%
8	97	1%	1%
9	96	1%	2%
10	94	2%	4%
11	94	3%	4%
12	93	4%	-1%
13	95	1%	-4%
14	94	3%	-4%
15	94	-1%	0%
16	91	2%	-7%

NOTES:
- CRI R values, only R1-R8 are used to calculate RA CRI values
- TM30 C values, 16 binned values out of total of 99 C values
- CQS Q values
- Data subject to change, all data has +/- 5% tolerance

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Specification subject to change. Rev-01-31-25

OPTI-FLAT-DW-HE(01)

Linear Fixtures Color Data

OP1DW-2.5HE-30-DRY-FR-ST

3095 K

CRI: 98.4

CRI R9: 93.9

TM30 Rf: 94.6

TM30 Rg: 100.8

CQS: 95.6

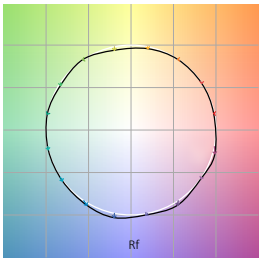
X: 0.431

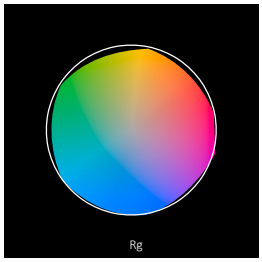
Y: 0.403

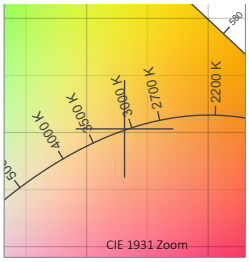
U: 0.247

V: 0.347

Δuv: 0.0005







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
99.1	99.2	95.6	98.9	99.1	97.7	99.2	98.0	93.9	96.4	96.6	82.8	99.5	96.6	98.5
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
94.1	97.1	91.8	92.8	96.2	97.5	95.8	97.7	97.0	97.2	97.7	97.5	97.6	96.9	96.0
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
96.5	98.1	96.8	95.6	93.8	97.3	94.0	98.1	94.8	91.6	91.0	92.4	95.6	93.0	92.7	89.9

TM30

Hue Bin	R_f	Chroma	Hue
1	97	-1%	0%
2	98	0%	0%
3	97	0%	0%
4	96	-2%	-1%
5	94	-4%	1%
6	97	0%	1%
7	94	-2%	2%
8	98	0%	1%
9	95	0%	4%
10	92	0%	5%
11	91	3%	6%
12	92	5%	1%
13	96	1%	-2%
14	93	4%	-4%
15	93	0%	-2%
16	90	2%	-8%

OP1DW-2.5HE-30-DRY-PR-ST

3091 K

CRI: 98.4

CRI R9: 95.0

TM30 Rf: 94.7

TM30 Rg: 100.9

CQS: 95.7

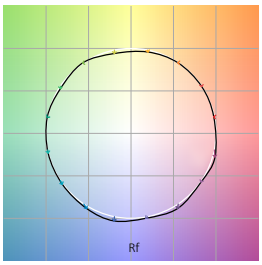
X: 0.431

Y: 0.403

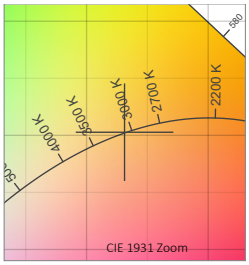
U: 0.247

V: 0.347

Δuv: 0.0003







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
98.9	99.4	95.7	98.5	99.2	97.8	99.4	98.5	95.0	96.8	96.3	83.1	99.2	96.6	98.6
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
94.2	97.1	91.9	93.0	96.4	97.5	95.7	97.7	97.0	97.2	97.9	97.5	97.5	97.0	96.1
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
96.7	98.1	96.9	95.7	93.9	97.3	94.0	98.1	94.9	91.9	91.2	92.4	95.7	93.1	92.8	90.0

TM30

Hue Bin	R_f	Chroma	Hue
1	97	-1%	0%
2	98	0%	0%
3	97	0%	0%
4	96	-2%	-1%
5	94	-4%	1%
6	97	1%	1%
7	94	-2%	2%
8	98	0%	1%
9	95	0%	4%
10	92	0%	5%
11	91	3%	6%
12	92	5%	0%
13	96	1%	-2%
14	93	4%	-4%
15	93	0%	-2%
16	90	2%	-8%

OP1DW-2.5HE-30-DRY-DF-ST

3083 K

CRI: 98.4

CRI R9: 96.2

TM30 Rf: 94.8

TM30 Rg: 101.0

CQS: 95.7

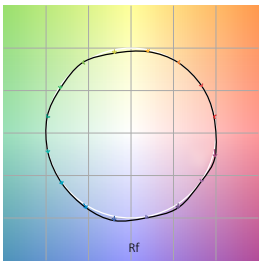
X: 0.432

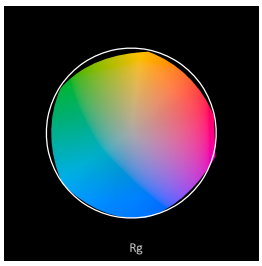
Y: 0.403

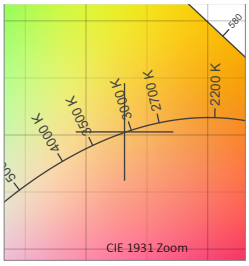
U: 0.248

V: 0.347

Δuv: 0.0002







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
98.6	99.6	95.7	98.2	99.2	97.8	99.5	98.9	96.2	97.3	95.9	83.6	98.9	96.6	98.7
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
94.3	97.1	92.1	93.3	96.6	97.5	95.8	97.9	96.9	97.3	98.0	97.4	97.3	97.1	96.2
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
96.8	98.1	96.9	95.7	93.9	97.2	94.0	98.0	95.0	92.1	91.4	92.5	95.8	93.3	92.9	90.2

TM30

Hue Bin	R_f	Chroma	Hue
1	97	-1%	0%
2	98	0%	-1%
3	97	0%	0%
4	96	-2%	-1%
5	94	-4%	1%
6	97	1%	1%
7	94	-2%	2%
8	98	0%	1%
9	95	0%	4%
10	92	1%	5%
11	91	3%	6%
12	93	5%	0%
13	96	1%	-2%
14	93	4%	-3%
15	93	0%	-2%
16	90	3%	-8%

NOTES:
- CRI R values, only R1-R8 are used to calculate RA CRI values
- TM30 C values, 16 binned values out of total of 99 C values
- CQS Q values
- Data subject to change, all data has +/- 5% tolerance

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Specification subject to change. Rev-01-31-25

OPTI-FLAT-DW-HE(01)

Linear Fixtures Color Data

OP1DW-2.5HE-40-DRY-FR-ST

4053 K

CRI: 97.1

CRI R9: 96.9

TM30 Rf: 92.8

TM30 Rg: 100.3

CQS: 95.0

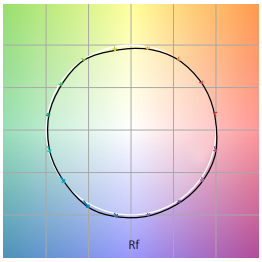
X: 0.379

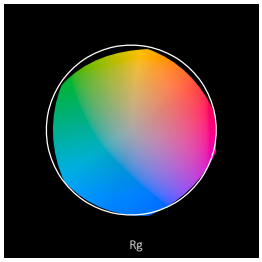
Y: 0.378

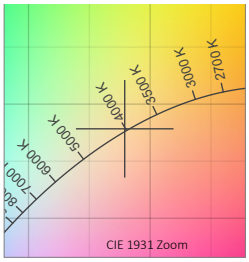
U: 0.224

V: 0.335

Δuv: 0.0012







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
98.9	97.8	93.9	98.7	96.9	94.4	98.7	97.8	96.9	92.9	97.1	72.1	98.6	96.1	96.8
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
94.7	99.5	88.9	89.0	93.7	96.2	96.5	98.8	97.1	97.4	97.9	98.9	98.7	99.5	97.5
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
95.5	97.7	96.1	93.4	92.1	96.4	95.1	94.1	90.8	88.3	86.1	91.2	95.2	94.4	90.6	90.1

TM30

Hue Bin	R_f	Chroma	Hue
1	96	0%	0%
2	98	0%	-1%
3	96	0%	0%
4	93	-3%	-1%
5	92	-4%	0%
6	96	-1%	1%
7	95	-2%	2%
8	94	-2%	3%
9	91	-1%	7%
10	88	-1%	7%
11	86	3%	9%
12	91	3%	4%
13	95	3%	0%
14	94	3%	0%
15	91	3%	-3%
16	90	3%	-5%

OP1DW-2.5HE-40-DRY-PR-ST

4043 K

CRI: 97.2

CRI R9: 95.9

TM30 Rf: 92.9

TM30 Rg: 100.4

CQS: 95.1

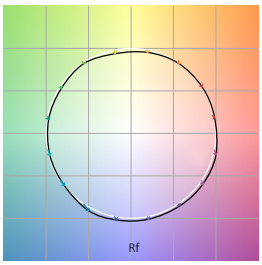
X: 0.379

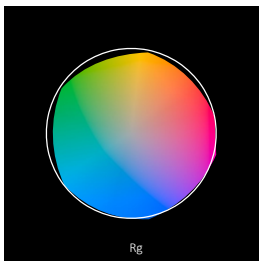
Y: 0.378

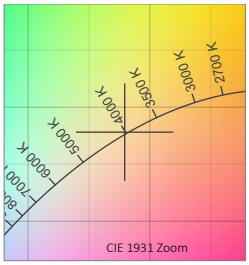
U: 0.224

V: 0.335

Δuv: 0.0010







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
99.0	97.9	93.9	99.0	97.2	94.6	98.6	97.4	95.9	93.3	97.1	72.4	98.9	96.1	96.8
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
94.7	99.5	89.0	89.1	93.9	96.4	96.6	98.9	97.0	97.4	98.1	99.0	98.6	99.4	97.4
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
95.5	97.7	96.2	93.5	92.1	96.4	95.2	94.2	91.0	88.5	86.2	91.3	95.2	94.4	90.7	90.2

TM30

Hue Bin	R_f	Chroma	Hue
1	96	0%	0%
2	98	0%	-1%
3	96	0%	0%
4	94	-3%	-1%
5	92	-4%	0%
6	96	-1%	1%
7	95	-2%	2%
8	94	-2%	3%
9	91	-1%	7%
10	89	-1%	7%
11	86	3%	9%
12	91	3%	4%
13	95	3%	1%
14	94	3%	0%
15	91	3%	-3%
16	90	3%	-5%

OP1DW-2.5HE-40-DRY-DF-ST

4038 K

CRI: 97.2

CRI R9: 93.9

TM30 Rf: 92.9

TM30 Rg: 100.6

CQS: 95.2

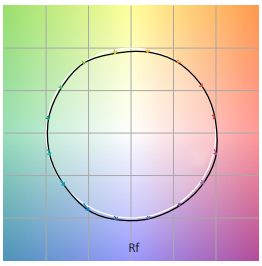
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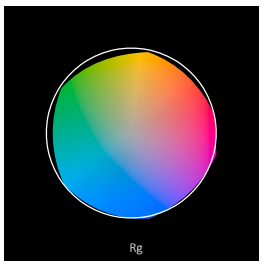
Y: 0.378

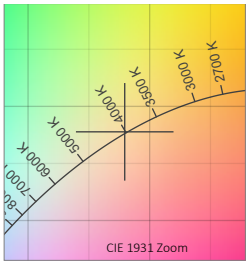
U: 0.224

V: 0.335

Δuv: 0.0007







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
99.1	98.2	93.9	99.3	97.6	94.9	98.3	96.7	93.9	93.9	97.2	72.9	99.1	96.0	96.5
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
94.7	99.6	89.2	89.4	94.2	96.8	96.7	99.0	97.0	97.5	98.3	99.1	98.5	99.3	97.3
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
95.5	97.7	96.3	93.6	92.2	96.4	95.3	94.4	91.1	88.8	86.4	91.4	95.2	94.4	90.8	90.3

TM30

Hue Bin	R_f	Chroma	Hue
1	95	0%	0%
2	98	0%	-1%
3	96	0%	0%
4	94	-3%	-1%
5	92	-4%	0%
6	96	-1%	1%
7	95	-2%	2%
8	94	-2%	3%
9	91	-1%	7%
10	89	0%	7%
11	86	3%	9%
12	91	3%	4%
13	95	3%	1%
14	94	3%	1%
15	91	4%	-3%
16	90	3%	-5%

NOTES:
- CRI R values, only R1-R8 are used to calculate RA CRI values
- TM30 C values, 16 binned values out of total of 99 C values
- CQS Q values
- Data subject to change, all data has +/- 5% tolerance

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Specification subject to change. Rev-01-31-25

OPTI-FLAT-DW-HE(01)

Linear Fixtures Color Data

OP1DW-2.5HE-55-DRY-FR-ST

5703 K

CRI: 97.0

CRI R9: 96.8

TM30 Rf: 91.8

TM30 Rg: 99.1

CQS: 94.0

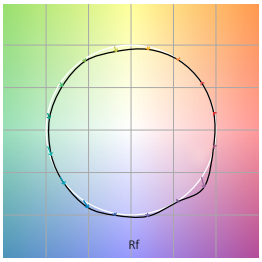
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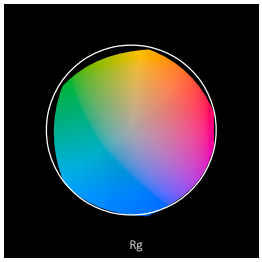
Y: 0.341

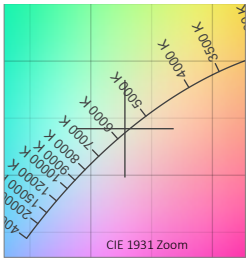
U: 0.204

V: 0.318

Δuv: 0.0014







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
98.0	99.5	96.9	96.5	95.9	94.6	97.6	97.2	96.8	97.3	97.4	71.2	99.4	98.2	95.1
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
93.0	98.9	88.6	86.4	90.7	93.8	97.6	98.3	98.1	97.7	96.7	97.6	98.5	98.5	96.7
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
93.5	97.1	95.2	92.6	89.8	96.1	93.0	89.8	88.4	85.6	85.5	96.5	94.1	94.6	85.0	96.3

TM30

Hue Bin	R_f	Chroma	Hue
1	94	-1%	1%
2	97	0%	0%
3	95	-1%	-1%
4	93	-3%	-2%
5	90	-6%	-1%
6	96	-3%	0%
7	93	-4%	2%
8	90	-3%	5%
9	88	-2%	11%
10	86	0%	9%
11	85	4%	8%
12	97	2%	1%
13	94	3%	-1%
14	95	1%	-2%
15	85	9%	-8%
16	96	-1%	0%

OP1DW-2.5HE-55-DRY-PR-ST

5684 K

CRI: 97.1

CRI R9: 95.8

TM30 Rf: 91.8

TM30 Rg: 99.2

CQS: 94.1

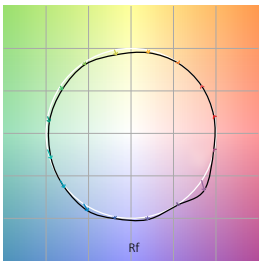
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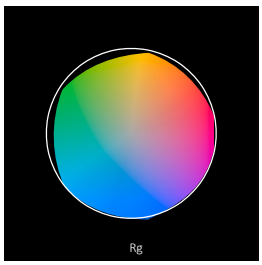
Y: 0.341

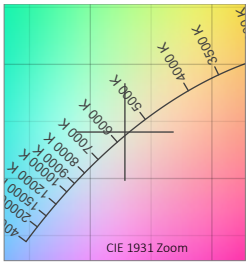
U: 0.204

V: 0.318

Δuv: 0.0017







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97.9	99.5	96.9	96.7	96.0	94.7	97.5	97.1	95.8	97.7	97.6	71.5	99.3	98.2	95.0
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
93.0	98.9	88.7	86.5	90.8	93.9	97.7	98.4	98.0	97.8	96.8	97.7	98.6	98.4	96.6
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
93.5	97.1	95.2	92.6	89.8	96.1	93.0	89.8	88.4	85.7	85.6	96.6	94.2	94.7	85.1	96.3

TM30

Hue Bin	R_f	Chroma	Hue
1	93	0%	1%
2	97	0%	0%
3	95	0%	-1%
4	93	-3%	-2%
5	90	-6%	-1%
6	96	-3%	0%
7	93	-4%	2%
8	90	-3%	5%
9	88	-2%	11%
10	86	0%	9%
11	86	4%	8%
12	97	2%	1%
13	94	3%	-1%
14	95	1%	-2%
15	85	9%	-8%
16	96	-1%	1%

OP1DW-2.5HE-55-DRY-DF-ST

5664 K

CRI: 97.1

CRI R9: 94.4

TM30 Rf: 91.9

TM30 Rg: 99.3

CQS: 94.2

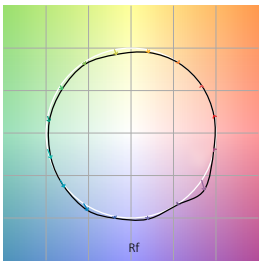
X: 0.329

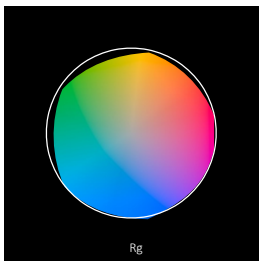
Y: 0.341

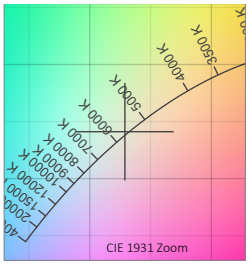
U: 0.204

V: 0.318

Δuv: 0.0017







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97.9	99.5	97.0	96.9	96.2	94.9	97.6	97.0	94.4	98.1	97.9	71.8	99.1	98.2	94.8
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
93.0	98.9	89.0	86.9	91.2	94.2	97.9	98.6	98.1	98.0	97.1	98.0	98.8	98.4	96.5
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
93.5	97.2	95.3	92.6	89.9	96.1	93.1	89.9	88.6	85.9	85.8	96.7	94.3	94.8	85.3	96.3

TM30

Hue Bin	R_f	Chroma	Hue
1	93	0%	1%
2	97	0%	0%
3	95	0%	-1%
4	93	-3%	-2%
5	90	-6%	-1%
6	96	-3%	0%
7	93	-4%	2%
8	90	-3%	5%
9	89	-2%	10%
10	86	1%	9%
11	86	4%	8%
12	97	2%	1%
13	94	3%	-1%
14	95	1%	-1%
15	85	9%	-8%
16	96	-1%	1%

NOTES:
- CRI R values, only R1-R8 are used to calculate RA CRI values
- TM30 C values, 16 binned values out of total of 99 C values
- CQS Q values
- Data subject to change, all data has +/- 5% tolerance

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Specification subject to change. Rev-01-31-25

OPTI-FLAT-DW-HE(01)

Linear Fixtures Color Data

OP1DW-4.0HE-30-DRY-FR-ST

3108 K

CRI: 98.3

CRI R9: 92.7

TM30 Rf: 94.7

TM30 Rg: 100.8

CQS: 95.6

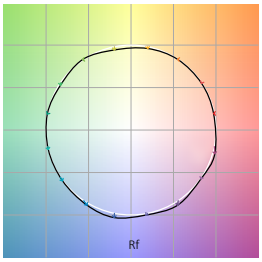
X: 0.430

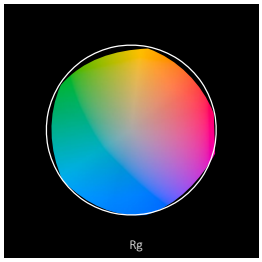
Y: 0.403

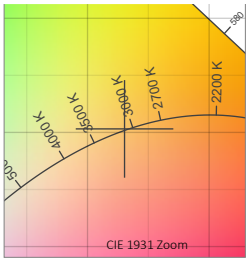
U: 0.247

V: 0.347

Δuv: 0.0006







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
99.4	99.0	95.5	98.9	99.0	97.6	99.2	97.6	92.7	95.7	96.8	82.9	99.7	96.5	98.3
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
94.3	97.2	91.7	92.8	96.2	97.2	95.6	97.6	96.9	97.0	97.5	97.6	97.8	96.7	96.0
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
96.5	98.1	96.7	95.8	93.9	97.4	94.3	98.3	95.1	91.8	91.0	92.5	95.7	92.9	92.9	89.9

TM30			
Hue Bin	R_f	Chroma	Hue
1	97	-1%	0%
2	98	0%	0%
3	97	0%	1%
4	96	-2%	-1%
5	94	-4%	1%
6	97	1%	1%
7	94	-2%	2%
8	98	0%	1%
9	95	0%	3%
10	92	0%	5%
11	91	2%	6%
12	92	5%	1%
13	96	2%	-2%
14	93	4%	-4%
15	93	0%	-2%
16	90	2%	-8%

OP1DW-4.0HE-30-DRY-PR-ST

3100 K

CRI: 98.3

CRI R9: 93.5

TM30 Rf: 94.8

TM30 Rg: 100.9

CQS: 95.6

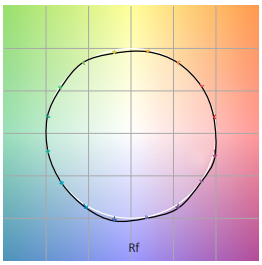
X: 0.431

Y: 0.403

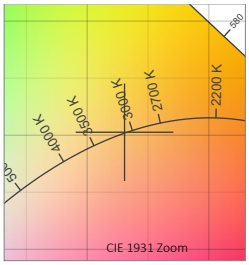
U: 0.247

V: 0.347

Δuv: 0.0004







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
99.2	99.2	95.6	98.7	99.2	97.7	99.2	97.9	93.5	96.2	96.5	83.3	99.6	96.5	98.6
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
94.4	97.2	91.8	92.9	96.3	97.2	95.5	97.6	96.9	97.0	97.7	97.7	97.8	96.8	96.1
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
96.7	98.2	96.8	95.9	94.0	97.3	94.3	98.3	95.2	92.0	91.2	92.5	95.7	93.0	93.0	90.1

TM30			
Hue Bin	R_f	Chroma	Hue
1	97	-1%	0%
2	98	0%	0%
3	97	0%	1%
4	96	-2%	-1%
5	94	-4%	1%
6	97	1%	1%
7	94	-2%	2%
8	98	0%	1%
9	95	0%	3%
10	92	0%	5%
11	91	2%	6%
12	93	5%	1%
13	96	2%	-2%
14	93	4%	-4%
15	93	0%	-2%
16	90	2%	-8%

OP1DW-4.0HE-30-DRY-DF-ST

3096 K

CRI: 98.4

CRI R9: 95.1

TM30 Rf: 94.9

TM30 Rg: 101.0

CQS: 95.8

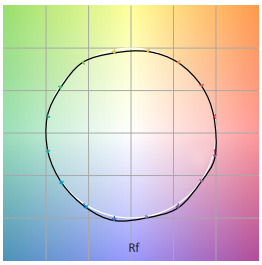
X: 0.431

Y: 0.403

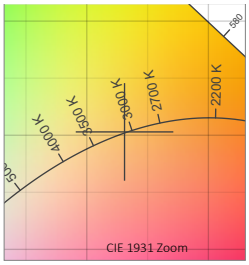
U: 0.247

V: 0.347

Δuv: 0.0004







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
98.9	99.3	95.5	98.4	99.3	97.8	99.5	98.6	95.1	96.5	96.1	83.6	99.3	96.5	98.7
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
94.5	97.2	92.0	93.3	96.7	97.2	95.7	97.8	96.9	97.2	97.7	97.4	97.4	97.1	96.3
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
96.8	98.2	96.9	96.0	94.1	97.3	94.3	98.1	95.3	92.3	91.4	92.6	95.9	93.3	93.0	90.2

TM30			
Hue Bin	R_f	Chroma	Hue
1	97	-1%	0%
2	98	0%	0%
3	97	0%	0%
4	96	-2%	-1%
5	94	-4%	1%
6	97	1%	1%
7	94	-1%	2%
8	98	0%	1%
9	95	0%	3%
10	92	0%	5%
11	91	2%	6%
12	93	5%	1%
13	96	1%	-2%
14	93	4%	-3%
15	93	0%	-2%
16	90	2%	-8%

NOTES:
- CRI R values, only R1-R8 are used to calculate RA CRI values
- TM30 C values, 16 binned values out of total of 99 C values
- CQS Q values
- Data subject to change, all data has +/- 5% tolerance

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Specification subject to change. Rev-01-31-25