OPTI-OPTICS (02) FOR TUNABLE APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed

UL Listed | RoHS Compliant | 5 YEAR WARRANTY | Declare. | Red List Approved

.57"
1.00"

- Choose from 9 lens options: 40°, 60°, 70°, 90°, 110°, 155°, 180°, Asymmetric, & Forward Throw
- Delivers smooth and consistent light to highlight architectural features and surfaces
- Ideal for surface-mounted or recessed 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

1 PRODUCT	2 WATTS/FT	3 CCT	4 RATED	5 LENS	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
OP2DW			DRY										

Sample Part Number: **OP2DW-2.5HE-20/30-DRY-155D-P1-CON6-CON6-WH-CL2-CC-WH-48"-E**

1 PRODUCT

OP2DW

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

3 CCT

20/27	2000K/2700K
20/30	2000K/3000K
27/40	2700K/4000K
27/55	2700K/5500K

4 RATED

DRY	IP20

5 LENS

40D	Optical 40°
60D	Optical 60°
70D	Optical 70°
90D	Optical 90°
110D	Optical 110°
155D	Optical 155°
180D	Optical 180°

ASYM	Asymmetric
FT	Forward Throw

For representation of LED visibility, see Diode Visibility section on following pages.
For beam angles, see Photometric Performance section on following pages

6 WIRE INPUT/OUTPUT

S1	Single 1 (Input only) - End Feed
S2	Single 2 (Input only) - Bottom Feed

For continuous mounting, consider bottom feed.

P1	Pass Through 1 (Input/output) - End Feed
P2	Pass Through 2 (Input/output) - Bottom Feed

For continuous mounting, consider bottom feed.

S1A	Single 1 (Input only) - End Feed
S1B	Single 1 (Input only) - End Feed
S2A	Single 2 (Input only) - Bottom Feed
S2B	Single 2 (Input only) - Bottom Feed

For continuous mounting, consider bottom feed.

P1A	Pass Through 1 (Input/output) - End Feed
P1B	Pass Through 1 (Input/output) - End Feed
P2A	Pass Through 2 (Input/output) - Bottom Feed
P2B	Pass Through 2 (Input/output) - Bottom Feed

For continuous mounting, consider bottom feed.

7 CONNECTOR/WIRE IN

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

Connector/Wire In not needed to specify product. Typical selection is BW.
BW: Standard length is 36", Max length is 120". Request custom length by writing in part number next to BW (example: BW48)

BW	Bare Wire (Standard 36")
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8 CONNECTOR/WIRE OUT

CLS	Closed End (No feed)

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

Connector/Wire Out not needed to specify product. Typical selection is CLS or BW.
BW: Standard length is 36", Max length is 120". Request custom length by writing in part number next to BW (example: BW48)

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CON6	Connector 6"
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Connector/Wire Out not needed to specify product. Typical selection is CLS or BW.
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

13 LENGTH (IN)

Fixture length min 12", max 98.43" not including end caps. Tolerance +0 – 1/8". Consult factory 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.
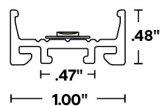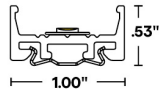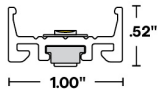See Exact/Optimal Fixture Length charts.
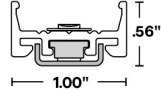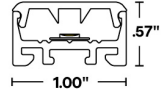
① PRODUCT - DIMENSIONS
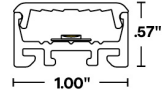

Profile

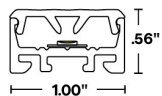Profile with concealed clip

Profile with magnet clip

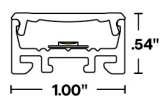Profile with magnet mount clip and magnet mount accessory

Profile with 40D lens

Profile with 60D lens

Profile with 70D lens

Profile with 90D lens
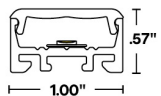
Profile with 110D lens
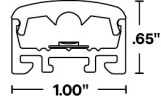
Profile with 155D lens
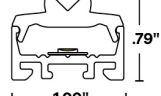
Profile with 180D lens
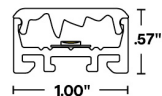
Profile with asymmetric lens

Profile with forward throw lens

② DELIVERED LUMENS

[Calculated L70 = 70000 hrs]
Tested with OP2DW-2.5HE-**-DRY-STD

	3000K	
	LM/FT	CRI
40D	262	98
60D	246	98
70D	251	98
90D	249	98
110D	240	98
155D	243	98
180D	245	98
ASYM	245	98
FT	213	98

5 DIODE VISIBILITY

Optical 40°

Optical 60°

Optical 70°

Optical 90°

Optical 110°

Optical 155°

Optical 180°

Asymmetric

Forward Throw

TEMPERATURE RATINGS

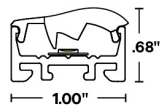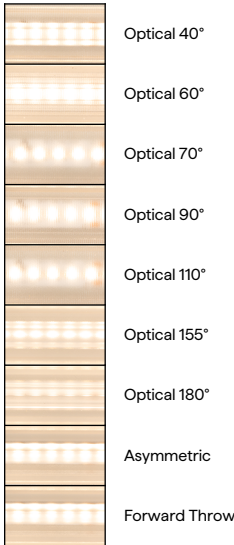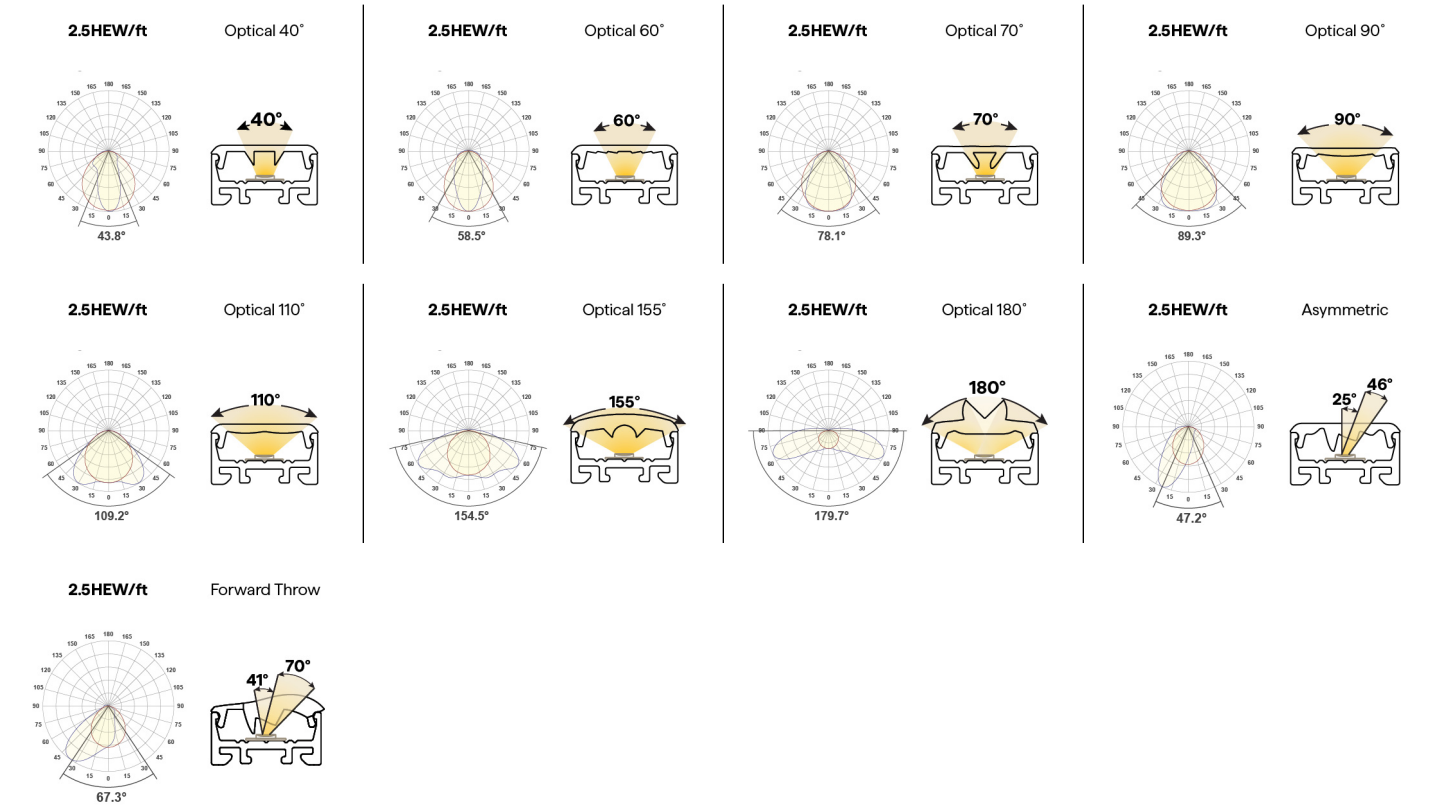|		DW 1.5 HE W/FT				DW 2.5 HE W/FT				DW 4.0 HE W/FT			
		Q-Tran power supply other than DALI, DMX		DALI, DMX, or non-Q-Tran power supply		Q-Tran power supply other than DALI, DMX		DALI, DMX, or non-Q-Tran power supply		Q-Tran power supply other than DALI, DMX		DALI, DMX, or non-Q-Tran power supply	
		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

PHOTOMETRIC PERFORMANCE

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

2.5HEW/ft — Optical 40°
43.8°

2.5HEW/ft — Optical 60°
58.5°

2.5HEW/ft — Optical 70°
78.1°

2.5HEW/ft — Optical 90°
89.3°

2.5HEW/ft — Optical 110°
109.2°

2.5HEW/ft — Optical 155°
154.5°

2.5HEW/ft — Optical 180°
179.7°

2.5HEW/ft — Asymmetric
25° / 46°
47.2°

2.5HEW/ft — Forward Throw
41° / 70°
67.3°

6 WIRE INPUT/OUTPUT

SINGLE (Input only)

S1 — End Feed
S2 — Bottom Feed

IN — IN

PASS THROUGH (Input/Output)

P1 — End Feed
P2 — Bottom Feed
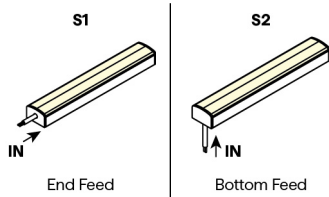
IN — OUT — IN — OUT
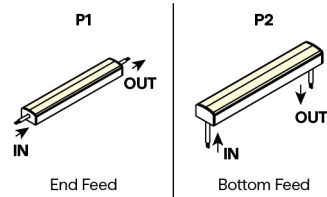
ASYMMETRIC ONLY SINGLE (Input only)

S1A — End Feed
S1B — End Feed
S2A — Bottom Feed
S2B — Bottom Feed

IN — IN — IN — IN
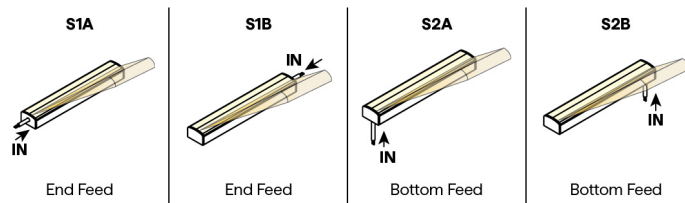
ASYMMETRIC ONLY PASS THROUGH (Input/Output)

P1A — End Feed
P1B — End Feed
P2A — Bottom Feed
P2B — Bottom Feed

IN — OUT — IN — OUT — IN — OUT — IN

CONFIGURATION OPTIONS

S1 — .08" width of end cap — .08" width of end cap
Single End Feed

S1 / P1 — Connection by others — Non-Continuous End Feed

P1 / S1 — Connection by others — Non-Continuous Corner Feed

S2 / P2 — .16" width of end cap — Continuous Bottom Feed

S1 / S1 — .16" width of end cap — Single End Feed

S1A — .08" width of end cap — .08" width of end cap — Single End Feed

S1B — .08" width of end cap — .08" width of end cap — Single End Feed

S1A / P1A — Connection by others — Non-Continuous End Feed

P1B / S1B — Connection by others — Non-Continuous End Feed

P1A / S1A — Connection by others — Non-Continuous Corner Feed

S1B / P1B — Connection by others — Non-Continuous Corner Feed

S2A / P2A — .16" width of end caps — Continuous Bottom Feed

P2B / S2B — .16" width of end caps — Continuous Bottom Feed

S1B / S1A — .16" width of end caps — Single End Feed

OPTI-OPTICS (02) FOR TUNABLE APPLICATIONS
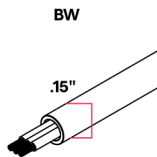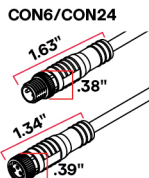## 24VDC Linear Fixtures - Surface & Recessed

7 / 8 CONNECTOR/WIRE – IN/OUT
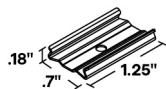
BW

.15"

Bare Wire 36"
22 AWG

CON6/CON24

1.63"
.38"

1.34"
.39"

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

9 WIRE COLOR

White

Black

11 MOUNTING

CC
(CC-01)

.18"
.7" 1.25"

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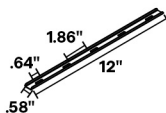
Each clips comes with a #4 x 5/8" Flat Head screw.

MG

.15"
3.13"
.35"

Magnet Clip

One MG provided per foot

To order separately use MG-02

MMA-02

1.86"
.64"   12"
.58"

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 color available

14 EXACT/OPTIMAL FIXTURE LENGTH

Exact fixtures are the exact length specified. 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.

Optimal Fixtures
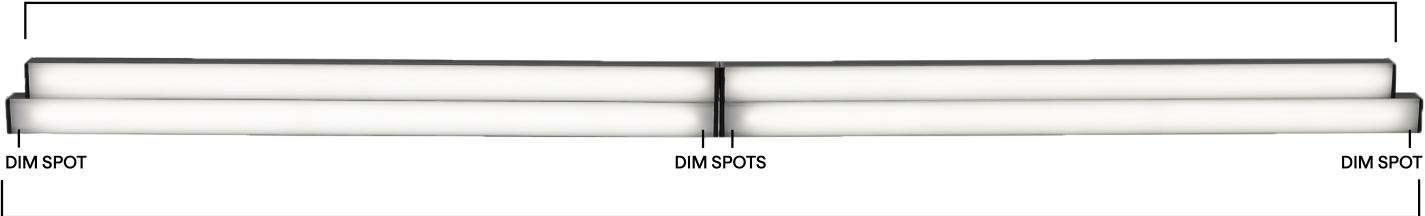
DIM SPOT   DIM SPOTS   DIM SPOT
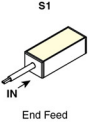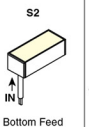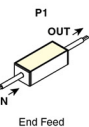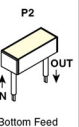
Exact Fixtures

DW-HE DRY 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 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: highlighted rows are closest to requested nominal length

Requested Nominal Length	S1 & S1A/B & S2 & S2A/B		P1 & P1A/B & P2 & P2A/B	
	S1 (End Feed)	S2 (Bottom Feed)	P1 (End Feed)	P2 (Bottom Feed)
12"	10.5"		10.75"	
13"	12.5"		12.75"	
14"	12.5"		12.75"	
15"	14.5"		14.75"	
16"	14.5"		14.75"	
17"	16.5"		16.75"	
18"	16.5"		16.75"	
19"	18.5"		18.75"	
20"	18.5"		18.75"	
21"	20.5"		20.75"	
22"	20.5"		20.75"	
23"	22.5"		22.75"	
24"	22.5"		22.75"	
36"	34.5"		34.75"	
48"	46.5"		46.75"	
60"	58.5"		58.75"	
72"	70.5"		70.75"	
84"	82.5"		82.75"	
96"	94.5"		94.75"	

COMPATIBLE POWER SUPPLIES

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

DIM TO LEVEL	INDOOR
	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 QT-CAB-eLED+TW-AWN QTM-eLED+DALI-DT6 QTM-eLED+DALI-DT8 QTM-eLED+DALI-DT8-AWN QTM-eLED+TW QTM-eLED+TW-AWN QZ-DMX
1%	QZ-DALI-DT8
10%	Non-Dim Power Supply with TW App Dongle

OPTI-OPTICS (02) FOR TUNABLE APPLICATIONS
24VDC Linear Fixtures - Surface & Recessed

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

COMPATIBLE MOUNTING ACCESSORIES

HINGE - HMB-M
1.41" .71"
Adjustable mounting bracket - Medium

HINGE - HMB-L
1.46" 1.29"
Adjustable mounting bracket - Large

HINGE - HMB-XL
4" 1.46"
Adjustable mounting bracket - XLarge

Q-PIVOT
.75" 1.03"
Small mounting accessory

Q-ANGLE
2.23" 1.38"
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

COMPATIBLE WIRING ACCESSORIES

Q-mini-J5
2.80" 2.27"
UL Listed, miniature junction box, DRY/DMP (WET rated with silicone)

CON120-EXT
10ft Con cable extender DRY/DMP/WET

COMPATIBLE CONTROL ACCESSORIES

SCENE APP DONGLE

1.36"

2.58"

Wi-Fi or Bluetooth
Connectivity

COMPATIBLE APPS

NFC APP

Q-NFC

Read and write
DMX addresses and
adjust voltage