

VORA 50LPH

POWERHUBB™ EDGE-LIT ARCHITECTURAL RECESSED TROFFER

VORA™ 50L

FEATURES

- Edge-Lit light guides for perfectly uniform appearance
- 5 size options, 4 visual options, 3 finish options
- 2.2" fixture depth, reducing plenum space
- Up to 6000 lumens and up to 139 lm/W in select configurations



RELATED PRODUCTS

⌘ [50L VORA](#)

CONTROL TECHNOLOGY



SPECIFICATIONS

CONSTRUCTION

- Housing - Extruded aluminum side rails joined together with die cast aluminum end caps
- Light Guide Panels - Laser etched acrylic sheet
- Lens - Optional extruded acrylic center diffuse

OPTICAL PERFORMANCE

- 2 SDCM color consistency, 80 or 90 CRI

INSTALLATION

- Intended for installation in exposed, inverted T-bar grid ceiling and drywall
- Drywall option ships with frame kit to be installed in ceiling prior to fixture install
- Holes in housing provided for wire-on-chain mounting support to building structure
- Row mounting of fixtures is not available

ELECTRICAL

- Fixture is wired for a single circuit

CONTROLS

- Hubbell Control Solutions' PowerHUBB™ is an enterprise-level Power-Over-Ethernet (PoE) lighting and control platform that seamlessly integrates luminaires, sensors, user interfaces and software for a scalable intelligent building control solution
- PowerHUBB™ PoE Lighting and Control options provide low-voltage wired connectivity for Power-Over-Ethernet network system deployment

CERTIFICATIONS

- CSA listed for damp locations
- IBEW
- AF of L
- IC rated on select outputs (See Performance Data Table)

WARRANTY

- LED boards - 5 years
- PowerHUBB Nodes - 5 years
- See www.litecontrol.com for details

KEY DATA	
Lumen Range	1,000 - 6,000
Wattage Range	7 - 46
Efficacy Range (LPW)	86 - 139
Rated Life (Hours)	L70: >61,000 L90: 49,000

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ORDERING GUIDE

Example: 50LPH-G-D-22-SOF-C1-35K-D450-PM

CATALOG # _____

50LPH		Ceiling Type		Distribution	Size	Center Visual Design		Finish/Color ⁴	
Series		G	NG	D		OPN	SOF	C1	C4
50LPH	PowerHUBB™ Edge-Lit Troffer	15/16" Grid Ceiling	9/16" Narrow Face Grid Ceiling	Direct	11 1' x 1' Fixture 12 1' x 2' Fixture 14 1' x 4' Fixture 22 2' x 2' Fixture 24 2' x 4' Fixture	Open Cavity - No Diffuser	Soft Diffuse Lens	Matte White	Machined Aluminum
		9/16" Screw Slot Grid Ceiling				Blade Baffle with Overlay, C1 finish		Carbon Black	
		Drywall Ceiling				Blade Baffle with Overlay, C4 finish		Custom Color	
						Blade Baffle with Overlay, C5 finish			
						Nature Decorative Graphic ¹			
						Sky Decorative Graphic ¹			
						Marble Decorative Graphic ¹			
						Wood Decorative Graphic ¹			
						Custom Decorative Graphic ¹			

Color temperature		Output ³		PowerHUBB Node	
27K	2700K	D100 (min)	1000	PM	PowerHUBB On/Off/1% Dim, Master
30K	3000K	to		PMC	PowerHUBB On/Off/1% Dim, Control Inputs, Master
35K	3500K	D600 (max)	6000		
40K	4000K				
50K	5000K ²				
27K9	2700K, 90 CRI ²				
30K9	3000K, 90 CRI ²				
35K9	3500K, 90 CRI				
40K9	4000K, 90 CRI ²				
50K9	5000K, 90 CRI ²				

- Notes:
- See separate [Decorative Center Visual Ordering Guide](#) for additional details.
 - Additional lead time may be applicable. Contact factory.
 - Specifiable in 100 lumen/ftx increments. Reference the Performance Data Table for full performance offering and exceptions.
 - Visit www.litecontrol.com/finishes for details.

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PERFORMANCE DATA TABLE

The table below shows the delivered lumens for the various lumen outputs. Use this chart in connection with the output multiplier capability to deliver any output required. Note: See "Center Visual Design" section for output multipliers.

Nomenclature	Lumens/Fix	2x2		2x4		1x1		1x2		1x4	
		W/unit	Efficacy	W/unit	Efficacy	W/unit	Efficacy	W/unit	Efficacy	W/unit	Efficacy
D100(min)	1000	7	139	-	-	11	93	10	105	-	-
D110	1100	8	139	-	-	12	93	11	105	-	-
D120	1200	9	139	-	-	13	93	12	105	-	-
D130	1300	9	139	-	-	14	93	13	105	-	-
D140	1400	10	139	-	-	15	92	13	105	-	-
D150	1500	11	139	-	-	16	92	14	105	-	-
D160	1600	12	139	-	-	18	91	15	105	13	121
D170	1700	12	139	14	125	19	91	16	104	14	121
D180	1800	13	139	14	125	20	91	17	104	15	121
D190	1900	14	139	15	125	21	90	18	104	16	121
D200	2000	14	139	16	125	22	90	19	104	17	121
D210	2100	15	139	17	125	23	90	20	104	17	121
D220	2200	16	139	18	125	25	89	21	104	18	121
D230	2300	17	139	18	125	26	89	22	104	19	121
D240	2400	17	139	19	125	27	88	23	104	20	121
D250	2500	18	139	20	125	29	88	24	104	21	121
D260	2600	19	139	21	125	30	87	25	104	22	121
D270	2700	19	139	22	125	31	87	26	104	22	121
D280	2800	20	139	22	125	32	86	27	103	23	121
D290	2900	21	139	23	125	34	86	28	103	24	121
D300	3000	22	139	24	125	-	-	29	103	25	121
D310	3100	22	139	25	125	-	-	30	103	26	121
D320	3200	23	139	26	125	-	-	31	103	27	121
D330	3300	24	139	26	125	-	-	32	103	27	121
D340	3400	25	139	27	125	-	-	33	102	28	121
D350	3500	25	139	28	125	-	-	34	102	29	121
D360	3600	26	139	29	125	-	-	35	102	30	121
D370	3700	27	138	30	125	-	-	36	102	31	120
D380	3800	28	138	30	125	-	-	38	101	32	120
D390	3900	28	138	31	125	-	-	39	101	32	120
D400	4000	29	138	32	125	-	-	40	101	33	120
D410	4100	30	138	33	125	-	-	41	101	34	120
D420	4200	31	138	34	125	-	-	42	101	35	120
D430	4300	31	137	34	125	-	-	43	101	36	120
D440	4400	32	137	35	125	-	-	-	-	37	120
D450	4500	33	137	36	125	-	-	-	-	38	120
D460	4600	34	137	37	125	-	-	-	-	38	120
D470	4700	34	137	38	125	-	-	-	-	39	120
D480	4800	35	137	38	125	-	-	-	-	40	120
D490	4900	36	136	39	125	-	-	-	-	41	119

*Only available with Non-IC applications

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PERFORMANCE DATA TABLE CONTINUED

Nomenclature	Lumens/Fix	2x2		2x4		1x1		1x2		1x4	
		W/unit	Efficacy	W/unit	Efficacy	W/unit	Efficacy	W/unit	Efficacy	W/unit	Efficacy
D500	5000	37	136	40	125	-	-	-	-	42	119
D510	5100	38	136	41	125	-	-	-	-	43	119
D520	5200	38	136	42	125	-	-	-	-	44	119
D530	5300	39	136	42	125	-	-	-	-	45	119
D540	5400	40	135	43	125	-	-	-	-	45	119
D550	5500	41	135	44	125	-	-	-	-	46	119
D560	5600	42	135	45	124	-	-	-	-	-	-
D570	5700	42	135	46	124	-	-	-	-	-	-
D580	5800	43	135	-	-	-	-	-	-	-	-
D590	5900	44	134	-	-	-	-	-	-	-	-
D600(max)	6000	45	134	-	-	-	-	-	-	-	-

*Only available with Non-IC applications

Output Multiplier Table

Photometrics for the 50L are published here at a nominal 3500K temperature. This table may be used to approximate the lumen values at different Kelvin temperatures. Power consumption would stay the same.

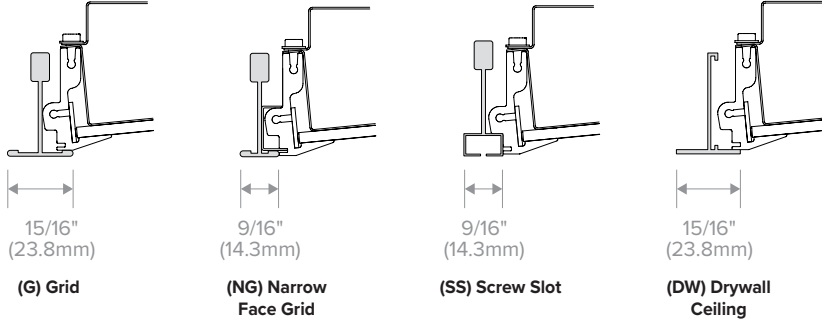
Option	2700K	3000K	3500K	4000K	5000K	2700K 90 CRI	3000K 90 CRI	3500K 90 CRI	4000K 90 CRI	5000K 90 CRI
OPN	0.90	0.93	0.95	0.98	1.00	0.79	0.81	0.84	0.86	0.88
SOF	0.95	0.98	1.00	1.03	1.05	0.83	0.85	0.88	0.90	0.93
BWO	0.91	0.94	0.96	0.99	1.01	0.80	0.82	0.84	0.86	0.89
DEC	0.90	0.93	0.95	0.98	1.00	0.79	0.81	0.84	0.86	0.88

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DIMENSIONS

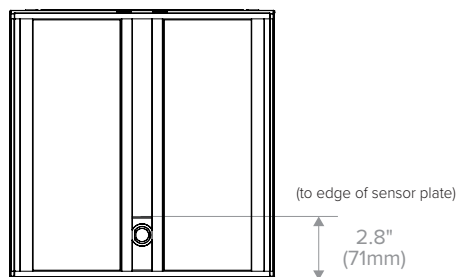
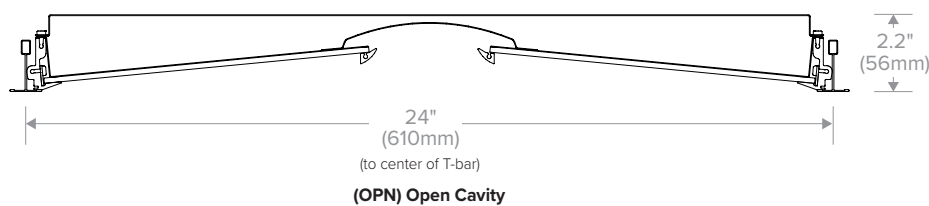
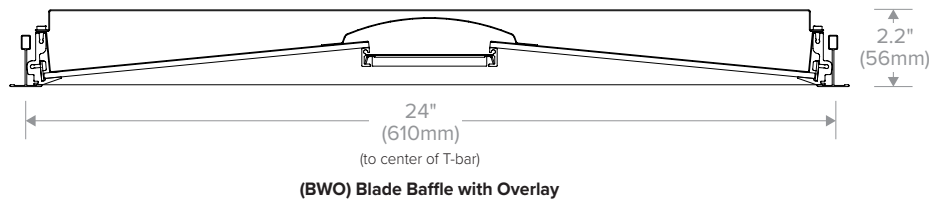
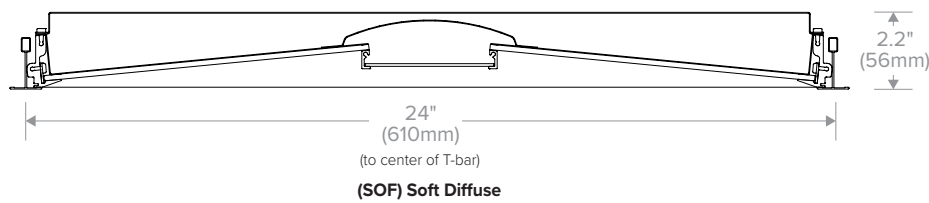
Mounting Options



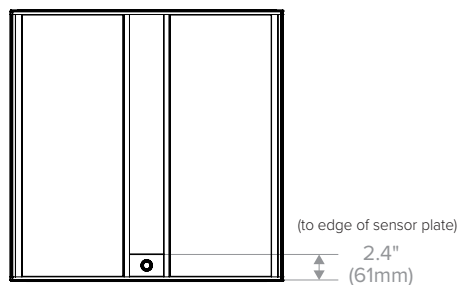
NG mounting option includes pre-installed steel rail with finish to match fixture

Shown installed with flange kit

Center Visual Design



1x1, 1x2, 1x4 Sensor Location



2x2, 2x4 Sensor Location

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PHOTOMETRY

50LPH-G-D-11-SOF-C1-35K-DXXX-D01-UNV

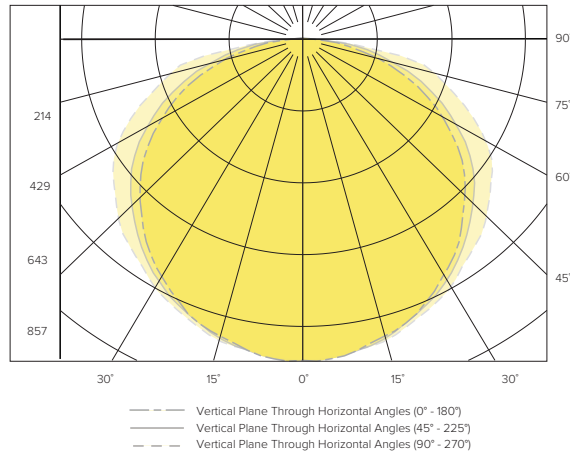
LUMINAIRE DATA

Test No.	18.01049
Description	1'x1' Architectural Recessed Edge Lit Troffer w/ Diffuser
Delivered Lumens	2894
Watts	40W
Efficacy	72.5
Mounting	Recessed

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1127	38.9
0-60	2115	73.1
0-90	2894	100.0
0-180	2894	100.0

POLAR GRAPH



50LPH-G-D-22-OPN-C1-35K-DXXX-D01-UNV

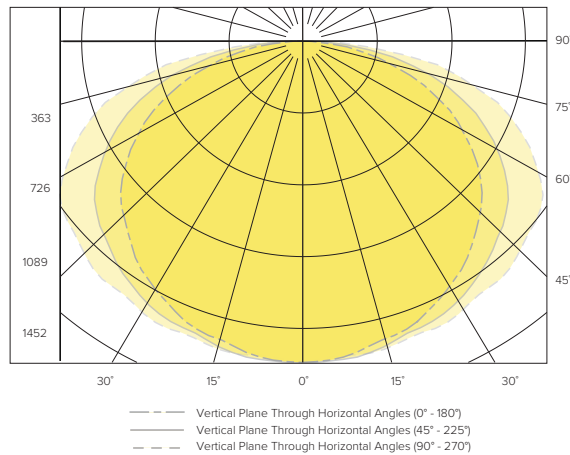
LUMINAIRE DATA

Test No.	18.01160
Description	2' x 2' Architectural Recessed Open-Center Edge-Lit Troffer
Delivered Lumens	5819
Watts	56W
Efficacy	103.5
Mounting	Recessed

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	2026	34.8
0-60	4018	69.0
0-90	5819	100.0
0-180	5819	100.0

POLAR GRAPH



50LPH-G-D-24-SOF-C1-35K-DXXX-D01-UNV

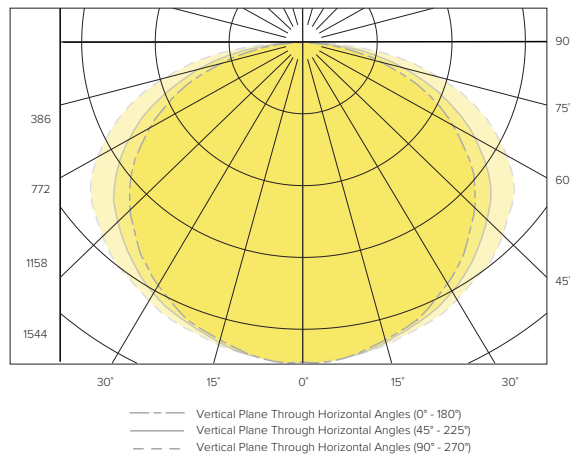
LUMINAIRE DATA

Test No.	R18.01156-01
Description	2'x4' Architectural Recessed Edge Lit Troffer w/ Diffuse Center
Delivered Lumens	5700
Watts	56W
Efficacy	101.8
Mounting	Recessed

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	2097	36.8
0-60	4055	71.1
0-90	5700	100.0
0-180	5700	100.0

POLAR GRAPH

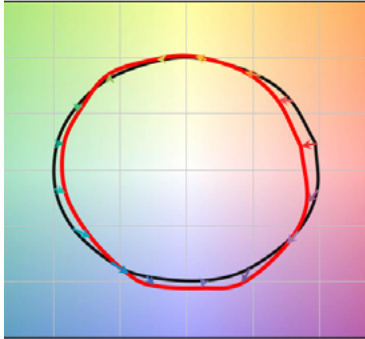


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TM-30 DATA

COLOR VECTOR GRAPHIC



COLOR DISTORTION GRAPHIC



TEST RESULTS	
Value	35K
CCT (K)	3494
CIE R _a	83
D _{UV}	-0.0004
R _f	82
R _g	96
x	0.4052
y	0.3898

*Graphics shown are at 35K

— Reference Illuminant — Test Source

ADDITIONAL INFORMATION

Center Visual Design:

OPN	Open cavity - no diffuser. Output multiplier (0.95)
SOF	Soft diffuse acrylic lens
BWO	Blade baffle with softglow lens overlay. Available in 3 finish options. Output multiplier (0.96)
DEC	Open cavity with pre-selected or custom graphic - Contact factory for more details. Output multiplier (0.95)

Output (VI Technology):

Variable Intensity (VI) technology allows precise specification of fixture output/wattage. Fixture will be programmed and labeled to specification. See Performance Data Table section for available increments.

Fixture Weight:

	FIXTURE WEIGHT
1x1	6.5 lbs
1x2	10.5 lbs
1x4	20 lbs
2x2	16 lbs
2x4	36 lbs

Rated Life:

Test in accordance to the LM79-2008 and derived from EPA TM-21 calculator.