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DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

LTR-4RAPH

LITEISTRY 4" ROUND ADJUSTABLE WITH POWERHUBB™

LITEISTRY™

FEATURES

- 4" architectural LED adjustable accent delivering 600–3500 lm
- Four beam distributions from 15° to 45°
- Translating center beam optic allows 0–35° vertical tilt, 362° horizontal rotation
- Select from three lower trim styles: Angle Cut Cone, Pinhole or Slot
- Accommodates up to two lens media including hexcell louver and linear spread options
- PowerHUBB™ enables low-voltage wired connectivity for Power over Ethernet (PoE) network system deployment

BUY AMERICAN SOLUTIONS
See Certification Specifications

RELATED PRODUCTS

- 3" LITEISTRY Family
- 4" LITEISTRY Family
- 6" LITEISTRY Family

CONTROL TECHNOLOGY

POWERHUBB™
PoE LIGHTING & CONTROL

SPECIFICATIONS

CONSTRUCTION

- Standard Non-IC or optional IC.
- Painted black enclosed steel platform with tool-less top access and pre-installed bar hangers
- Smooth friction adjustment with 0–35° vertical tilt, 362° horizontal rotation without tools
- Precise hot aiming capability, securely locks with thumbscrews for dependable control

OPTICS

- Translating center beam optic ensures full beam optimization from 0.5" to 1.25" ceiling thickness
- Proprietary twist-and-lock upper reflector with diffusion film provides 15°, 25°, 35° or 45° beam distributions
- Optional accessory lens media including linear spread and hexcell louver (order separately)
- Upper reflector can accommodate up to two additional lens media up to 0.25" max. thickness
- Provides dramatic, crisp highlights without distracting rings or excessive spill light
- Standard angle cut cone: High purity spun aluminum reflector, self-flanged in a large selection of anodized finishes and colors
- Flush mount flange option with mud-in ring available

OPTICS CONTINUED

- Large selection of anodized finishes and colors
- Painted cones and flange options available
- Optional pinhole or slot lower trim styles are available (painted finishes only)

ELECTRICAL

- Chip-on-board LED with 2 SDCM
- Multiple CCTs, 80+ or 90+ CRI
- Long LED life: L90 at 55,000 hours (TM-21)
- PowerHUBB™ enables low-voltage wired connectivity for Power over Ethernet (PoE) network system deployment
- EMI Filtering (FCC 47 CFR Part 15) Class A

INSTALLATION

- Accommodates ceiling thickness up to 1.25"
- Universal adjustable mounting brackets also accept 0.50" EMT conduit or 1.5" or 0.75" lathing channel (by others) or Prescolite accessory bar hangers (B24 or B6)

CERTIFICATIONS

- cCSAus certified to UL 2108
- Suitable for damp locations
- This product qualifies as a “designated country construction material” per FAR 52.225-11 Buy American-Construction. Materials under Trade Agreements effective 6/6/2020. See Buy American Solutions.

WARRANTY

- 5 year warranty
- See HLI Standard Warranty for additional information

KEY DATA	
Lumen Range	600-3500
Wattage Range	8-43
Efficacy Range (LPW)	77-85*
Reported Life (Hours)	L90 / >55,000
Input Current (mA)	N/A

*Based on Specular, 35K, 80 CRI

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ORDERING GUIDE

Example: LTR–4RAPH–H–10L35K8NR–PMC–LTR–4RA–T–SSCG

CATALOG #

HOUSING

LTR-4RAPH-H –

Aperture/Shape/Function		Lumen Output		CCT		CRI		Distribution		PowerHUBB Node		Housing Options	
LTR-4RAPH-H	4" Round Adjustable New Construction Housing	**06L**	600	**27K**	2700K	**8**	80+ CRI	**NR**	Narrow 15°[8]	**PM**	PowerHUBB™, On/Off/1% Dim, Master	**IC**	IC rated[5]
		10L	1000	**30K**	3000K	**9**	90+ CRI	**MD**	Medium 25°	**PMC**	PowerHUBB™, On/Off/1% Dim, Control Inputs, Master		
		15L	1500	**35K**	3500K			**WD**	Wide 35°	**PS**	PowerHUBB™, On/Off/1% Dim, Satellite		
		20L	2000	**40K**	4000K			**XW**	Extra Wide 45°	**PSC**	PowerHUBB™, On/Off/1% Dim, Control Inputs, Satellite		
		25L	2500	**50K**	5000K[1]								
		30L	3000										
		35L	3500										

TRIM

LTR-4RA-T –

Aperture/Shape/Function		Lower Trim Style		Reflector Finish		Reflector Color		Flange Color Options		Lower Trim Options		Reflector Options	
LTR-4RA-T	4" Round Adjustable Light Engine/ Trim Assembly	*Standard Angle Cut Cone*		*Finish not applicable with painted reflectors (WC or BC)*		*Standard Clear*		*Standard matches reflector color*		**FM**	Flush Mount Mud-In RIng[4]	**AM**	Antimicrobial Coating[3]
		PH	Pinhole[6]	**S**	Specular	**CG**	Champagne Gold	**WT**	White Flange[2]				
		SLT	Slot[6]	**SS**	Semi-Specular	**BL**	Black	**BT**	Black Flange[2]				
				MFC	American Matte™	**LW**	Light Wheat						
				VS	Softglow®	**PW**	Pewter						
				VSS	SoftSheen™	**WC**	Painted White Cone and Flange						
						BC	Painted Black Cone and Flange						

Accessories	
☐ **B24**	Set of two (2) 24" bar hangers for T-bar ceilings
☐ **B6**	Set of two bar hangers for ceiling joist up to 24" centers
☐ **FMR4-R**	Flush Mount Mud-In Ring, 4" Round
☐ **MOR4-R-WH**	Metal Oversized Ring, 4" Round, White (8.25" outside diameter)
☐ **MOR4-R-BL**	Metal Oversized Ring, 4" Round, Black (8.25" outside diameter)

Lens/Media Accessories	
☐ **LL4**	Linear Spread Lens for 4" and 6" (MD, WD, XW)[7]
☐ **LL4-NR**	Linear Spread Lens for 4" and 6" (NR only)[7]
☐ **PL4**	Prismatic Lens for 4" and 6" (MD, WD, XW)[7]
☐ **PL4-NR**	Prismatic Lens for 4" and 6" (NR only)[7]
☐ **SOL4**	Solite Lens for 4" and 6" (MD, WD, XW)[7]
☐ **SOL4-NR**	Solite Lens for 4" and 6" (NR only)[7]
☐ **HL4**	Hexcell Louver Black for 4" and 6" (MD, WD, XW)[7]
☐ **HL4-NR**	Hexcell Louver Black for 4" and 6" (NR only)[7]

Notes:

1 5000K available in 80+ CRI only.
2 WT not needed for WC, BT not needed for BC.
3 AM available with WC or Specular Clear (S or SWT). Consult factory for other colors.
4 Flush Mount Flange (FM) requires FMR accessory (sold separately).
5 IC available up to 15L.
6 Pinhole and Slot available only in WC or BC painted colors.
7 Lens holder supplied with fixture accommodates up to 2 media (0.25" max. total thickness).
8 Narrow (NR) available up to 20L.

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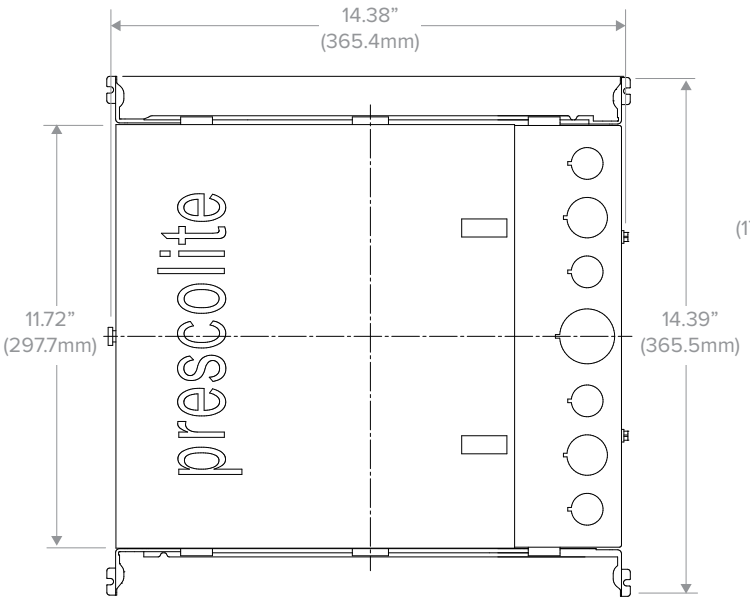
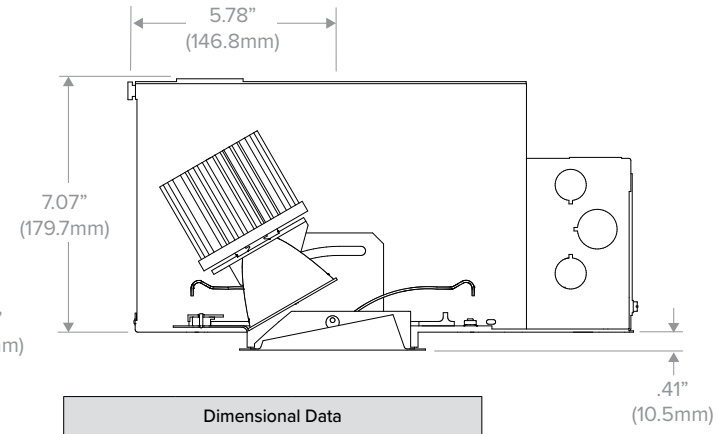
DIMENSIONS



Top View



Dimensional Data		
Aperture		4.00" (101.6mm)
Flange	Standard	5.25" (133.4mm)
	Flush Mount	4.50" (114.3mm)
Ceiling Cutout	Standard	5.00" (127.0mm)
	Flush Mount	5.12" (130.0mm)
Ceiling Thickness		0.50" to 1.25" (12.7mm to 31.8mm)

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PHOTOMETRY

LTR-4RAPH-H-20L35K8NR-DM1 / LTR-4RA-T-S

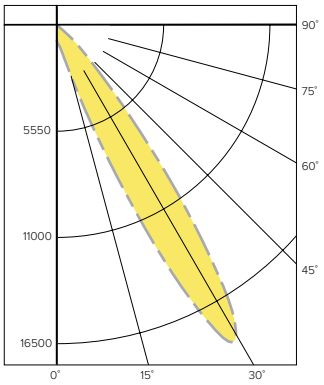
LUMINAIRE DATA

Test No.	**R19.01187-01**
Description	**2000 lm, Narrow, 3500K, 80 CRI**
Delivered Lumens	**2111**
Watts	**24.9W**
Efficacy	**84.9**
Mounting	**Recessed**
Beam Angle (FWHM)	**15**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1869	88.5
0-60	2106	99.8
0-90	2111	100.0
0-180	2111	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	817
5	1016
15	2491
25	14210
35	11830
45	1896
55	77
65	16
75	2
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	310991
55°	15570
65°	4391
75°	896
85°	0

*Candela/Square Meter

LTR-4RAPH-H-20L35K8MD-DM1 / LTR-4RA-T-S

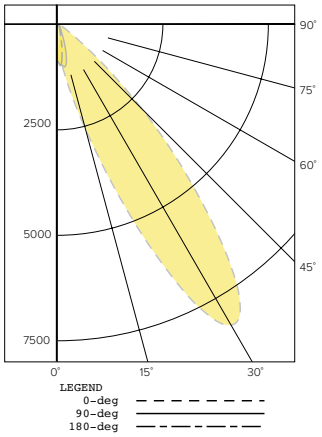
LUMINAIRE DATA

Test No.	**R19.01276-01**
Description	**2000 lm, Medium, 3500K, 80 CRI**
Delivered Lumens	**1918**
Watts	**22.5W**
Efficacy	**85.3**
Mounting	**Recessed**
Beam Angle (FWHM)	**23**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1596	77.5
0-60	1913	99.7
0-90	1918	100.0
0-180	1918	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	908
5	960
15	2727
25	6950
35	7254
45	2583
55	120
65	18
75	1
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	423676
55°	24265
65°	4940
75°	448
85°	0

*Candela/Square Meter

LTR-4RAPH-H-20L35K8WD-DM1 / LTR-4RA-T-S

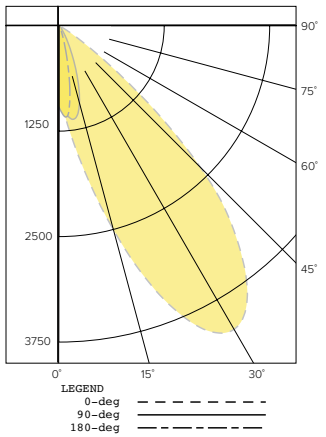
LUMINAIRE DATA

Test No.	**R19.01277-01**
Description	**2000 lm, Wide, 3500K, 80 CRI**
Delivered Lumens	**1826**
Watts	**22.5W**
Efficacy	**81.2**
Mounting	**Recessed**
Beam Angle (FWHM)	**35**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1426	75.3
0-60	1816	99.5
0-90	1826	100.0
0-180	1826	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	966
5	1181
15	2510
25	3938
35	3891
45	2374
55	418
65	42
75	1
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	389395
55°	84524
65°	11526
75°	448
85°	0

*Candela/Square Meter

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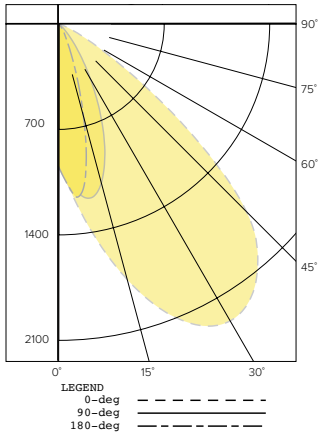
PHOTOMETRY CONTINUED

LTR-4RAPH-H-20L35K8XW-DM1 / LTR-4RA-T-S

LUMINAIRE DATA

Test No.	**R19.01223-01**
Description	**2000 lm, Extra Wide, 3500K, 80 CRI**
Delivered Lumens	**1721**
Watts	**22.5W**
Efficacy	**76.6**
Mounting	**Recessed**
Beam Angle (FWHM)	**49**

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	950
5	1162
15	1756
25	2207
35	2221
45	1763
55	629
65	115
75	4
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	289176
55°	127190
65°	31561
75°	1792
85°	0

*Candela/Square Meter

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1266	73.6
0-60	1694	98.5
0-90	1721	100.0
0-180	1721	100.0

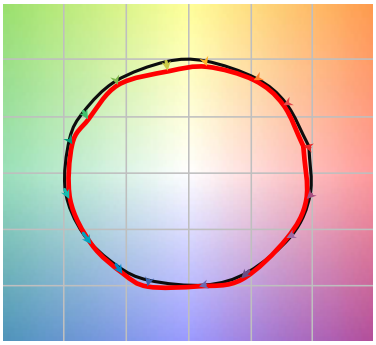
LUMEN MULTIPLIER

Option	27K8	30K8	35K8	40K8	50K8	27K9	30K9	35K9	40K9
Multiplier	0.94	0.98	1.00	1.01	1.02	0.81	0.84	0.85	0.85

Photometrics are published below at a nominal 3500 Kelvin, 80+ CRI. This table may be used to approximate the lumen values at different Kelvin temperatures. Power consumption would stay the same.

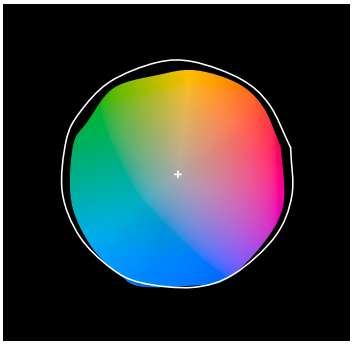
TM-30 DATA

COLOR VECTOR GRAPHIC 3500K, 90 CRI



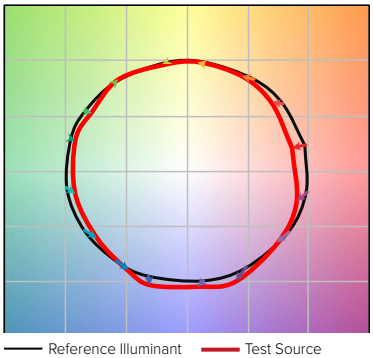
Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC 3500K, 90 CRI



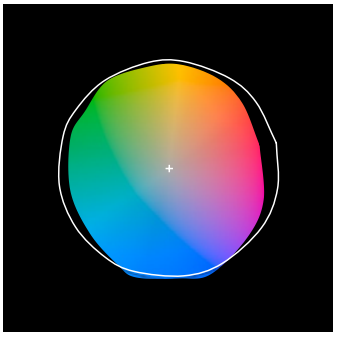
TEST RESULTS - 3500K		
Value	80+ CRI	90+ CRI
R_f	84	88
R_g	95	95
CCT (K)	3411	3419
D_{UV}	0.0015	0.0042
x	0.4120	0.4147
y	0.3974	0.4052
CIE R_a	84	93
CIE R_9	11	62

COLOR VECTOR GRAPHIC 3500K, 80 CRI



Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC 3500K, 80 CRI



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ELECTRICAL DATA

WATTAGE DATA		
Lumen Output	Nominal Lumens	Wattage
06L	600	8
10L	1000	12
15L	1500	19
20L	2000	23
25L	2500	28
30L	3000	35
35L	3500	43

* Wattage may vary based on configuration and options selected

ADDITIONAL INFORMATION

PowerHUBB™ POWERHUBB PoE LIGHTING & CONTROL

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.

See separate PowerHUBB™ In-Fixture Solutions Guide and Hubbell Control Solutions PowerHUBB Brochure for more details.

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