

Project:	
Type:	
Catalog #:	

STANDARDS



HOUSING

- Bronze powder-coated, die cast aluminum housing.

ELECTRICAL

- Operating temperature (ambient): -40°C to 45°C (-40°F to 113°F).
- Universal 120-277V AC voltage (50-60Hz).
- 0-10V DC dimming drivers are standard.
- Input transient surge protection = 6kV.
- Power Factor > 0.9.
- Total Harmonic Distortion < 20%.

OPTICAL SYSTEM

- Efficacy Up to 190 Lumens per Watt (LPW) @ CCT=4000K.
- Field selectable 3000K, 4000K, and 5000K color temperatures.*
- RALSR-20161310L-3CCT-T3 selectable output delivers from 10,866 to 22,122 nominal lumens, with 4 settings.*
- RALSR-20161310L-3CCT-T5 selectable output delivers from 8,883 to 19,996 nominal lumens, with 4 settings.*
- Long-life LEDs provide 167,000 hours of operation with at least 70% of initial lumen output (L70), and 51,000 hours with at least 90% of initial lumen output (L90).**
- Available IES roadway distributions: Type III or Type V.
- Sensor-ready receptacle comes standard. Screw-in sensor and remote control sold separately.
- LED color maintenance < 0.0012 chromaticity shift ($\Delta u'v'$) over the initial 6,000 hours of operation.
- Polycarbonate lens.
- Color Rendering Index > 70.

* Factory set to 4000K CCT, and highest power output.

** L70 & L90 hours are IES TM-21-11 calculated hours.



MOUNTING***

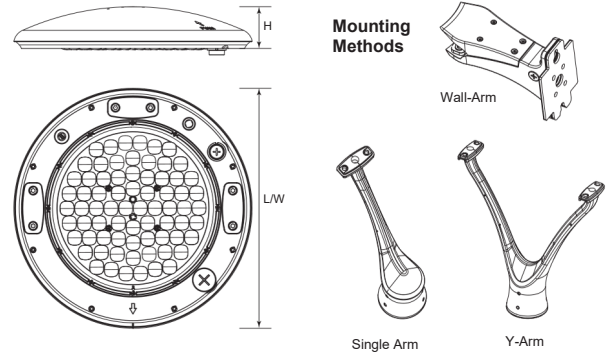
- Optional Y-Arm Mount Kit.
- Optional Single Arm Mounting Kit.
- Optional Wall-Arm Mounting Kit.

CODE COMPLIANCE

- cULus listed for wet locations.
- DLC Premium listed.
- Complies with FCC Part 15, Class A.
- IP65 rated for ingress protection.
- IK08 rated for impact protection.

WARRANTY

- 5-year warranty on all electronics and housing.



Model #	L (in)	W (in)	H (in)	Weight (lbs)
RALSR-20161310L-3CCT-T3/ RALSR-20161310L-3CCT-T5	16.06	16.06	2.8	9.64

*** Mounting hardware sold separately. One must be ordered.

ORDERING INFORMATION

Example: RALSR-20161310L-3CCT-T3

Model	Nominal Lumen Output (selectable)		Kelvin (selectable)		Distribution	
RALSR	20161310L	20,000/16,000/13,000/10,000 lm	3CCT	3000/4000/5000K	T3	Type III
					T5	Type V

ACCESSORIES (ORDER SEPARATELY)

Sensor

HD09VR-PH5-1	=	Passive infrared sensor - maximum mounting height = 39 FT
HD09VR-MH5-1	=	Microwave step-dimming sensor - maximum mounting height = 49 FT
HD05R	=	Remote control for HD09VR series Sensors (required to change factory settings)
*HD09VR series has 5-dial setting capability.		

Factory settings for Sensor : detection area =100%, hold time = 5 sec, stand-by period = 0 sec, stand-by dimming level = 10%, daylight threshold = disabled

Photocell

HD07VR-A-1	=	12VDC photocell; RCA jack, factory set to turn on at 10 lux, turn off at 100 lux
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Note: Screws into Sensor RCA receptacle that comes standard on the fixture.

Mounting Option

RALSR-Y-ARM-T5	=	RALSR- Y-Arm Mount For RALSR-20161310L-3CCT-T5
WALL-MOUNT-T3&T5	=	RALSR- Wall-Arm Mount For RALSR-20161310L-3CCT-T3 & RALSR-20161310L-3CCT-T5
SINGLE-ARM-T3&T5	=	RALSR- Single Arm Mount For RALSR-20161310L-3CCT-T3 & RALSR-20161310L-3CCT-T5

COMPATIBLE DIMMERS AND CONTROLS

Manufacturer	Model Number	Dimmer Range	Load Switching Capacity
Best Lighting	DWS-010V-T	10%-100%	600W
Best Lighting	GPDM LV-02-3	10%-100%	600W
Best Lighting	GPDM LV-12-3	10%-100%	600W
Best Lighting	DWS-010V-D	10%-100%	600W
Leviton	IP710-LFZ	10%-100%	1200W
Lutron	DVSTV	10%-100%	450W

LUMEN TABLES & ELECTRICAL DATA

Series	Measurements		20L			16L			13L			10L		
			3000K	4000K	5000K	3000K	4000K	5000K	3000K	4000K	5000K	3000K	4000K	5000K
RALSR-20161310L 3CCT-T3	Lumens		20,557	22,122	21,362	16,643	17,768	17,331	13,927	14,831	14,664	10,866	11,455	11,407
	Watts		127.3	122.9	126.5	99.0	96.0	98.4	80.8	78.8	80.5	61.2	59.7	60.7
	Efficacy		162	180	169	168	185	176	172	188	182	178	192	188
	Input Current (A)	120V	1.06	1.02	1.05	0.83	0.80	0.82	0.67	0.66	0.67	0.51	0.50	0.51
		240V	0.53	0.51	0.53	0.41	0.40	0.41	0.34	0.33	0.34	0.25	0.25	0.25
		277V	0.46	0.44	0.46	0.36	0.35	0.36	0.29	0.28	0.29	0.22	0.22	0.22

Series	Measurements		20L			16L			13L			10L		
			3000K	4000K	5000K	3000K	4000K	5000K	3000K	4000K	5000K	3000K	4000K	5000K
RALSR-20161310L 3CCT-T5	Lumens		18,641	19,996	19,484	14,972	15,911	15,586	12,494	13,204	13,121	8,883	9,266	9,312
	Watts		126.7	122.1	126.0	97.3	94.5	96.6	79.0	77.0	78.9	54.3	53.1	54.2
	Efficacy		147	164	155	154	168	161	158	171	166	164	175	172
	Input Current (A)	120V	1.06	1.02	1.05	0.81	0.79	0.80	0.66	0.64	0.66	0.45	0.44	0.45
		240V	0.53	0.51	0.52	0.41	0.39	0.40	0.33	0.32	0.33	0.23	0.22	0.23
		277V	0.46	0.44	0.45	0.35	0.34	0.35	0.29	0.28	0.28	0.20	0.19	0.20

PHOTOMETRICS

RALSR-20161310L-3CCT-T3

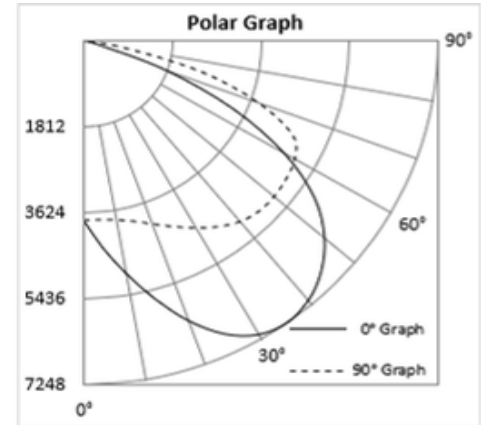
Luminaire Data

Description	Round Area Light CCT and Lumen Select
Total Lumens	22,122
Input Wattage	123
Efficacy (lm/W)	180
Max. Cd.	7248.1 (360H, 35V)
IES Classification	Type III
Longitudinal Classification	Very Short

Photometrics calculated at 4000k and
highest lumen setting.

Luminaire Classification Systems (LCS)

LCS Zone	Lumens	%Lum
FL 0-30	2,320	10.5%
FM 30-60	7,211	32.6%
FH 60-80	3,405	15.4%
FVH 80-90	110	0.5%
BL 0-30	1,327	6.0%
BM 30-60	3,864	17.5%
BH 60-80	3,443	15.6%
BVH 80-90	418	1.9%
UL 90-100	3	0.0%
UH 100-180	20	0.1%
Total	22,122	100.0%
BUG Rating	B4-U2-G4	



RALSR-20161310L-3CCT-T5

Luminaire Data

Description	Round Area Light CCT and Lumen Select
Total Lumens	19,996
Input Wattage	122
Efficacy (lm/W)	164
Max. Cd.	4643.7 (180H, 71V)
IES Classification	Type VS
Longitudinal Classification	Very Short

Photometrics calculated at 4000k and
highest lumen setting.

Luminaire Classification Systems (LCS)

LCS Zone	Lumens	%Lum
FL 0-30	1,259	6.3%
FM 30-60	4,621	23.1%
FH 60-80	3,784	18.9%
FVH 80-90	298	1.5%
BL 0-30	1,224	6.1%
BM 30-60	4,583	22.9%
BH 60-80	3,870	19.4%
BVH 80-90	357	1.8%
UL 90-100	0	0.0%
UH 100-180	0	0.0%
Total	19,996	100.0%
BUG Rating	B4-U0-G3	

