



832-995-3424
 EVERYTHING YOU NEED TO
 GET THE JOB DONE
BRIGHT!

RAY FIELD ADJUSTABLE LED DOWNLIGHT



PERFORMANCE DATA

Life (Hours):
50,000

Warranty:
5 years

IP Rating:
IP54

PF:
>95

Operating Temperature:
40°F - 77°F

Certification:
cUL, UL, FCC, RoHS

FEATURES

- Field Adjustable 3-CCT and 3-Wattage
- White Aluminum Frame with Polycarbonate Frosted Lens
- White RAL 9016 Finish
- 80° Beam Angle 4" and 6"; 90° Beam Angle 8" and 10"
- Standard 0-10V Dimming
- Built-in LED Driver
- Rated for IC Installations
- 100 - 115 lm/W
- Suitable for use in Wet Locations
- 90 CRI

APPLICATIONS

Offices, Retail Stores, Healthcare, Hospitality, Education,
Residential



RAY - 01 - 04 - 12W - UNV - WCK
 (A) (B) (C) (D) (E) (F)

ORDERING INFORMATION

EXAMPLE: RAY-01-04-12W-UNV-WCK

A	B	C	D	E	F
Model	Series	Size	Power	Input Voltage	Color Temp.
RAY	01	04	12w (6w, 8w, 12w)	UNV (120 - 277V)	WCKA (30K/35K/40K) WCKB (30K/40K/50K)
		06	16w (8w, 12w, 16w)		WCKA (30K/35K/40K) WCKB (30K/40K/50K)
		08	22w (12w, 16w, 22w)		WCKA (30K/35K/40K) WCKB (30K/40K/50K)
		10	33w (22w, 28w, 33w)		WCKA (30K/35K/40K) WCKB (30K/40K/50K)

*L90 & L70 values at 25° C are calculated TM-21 based on LM-80 and in-situ luminaire testing. In accordance with IESNA TM-21-11, projected values represent interpolated value based on time durations that are within six times (6x) the IESNA LM-80-08 total test duration (in hours) for the device under testing ((DUT) i.e. packaged LED chips). In accordance with IESNA TM-21-11, calculated values represent time durations that exceed six times (6x) the IESNA LM-80-08 total test duration (in hours) for the device under testing ((DUT) i.e. packaged LED chips).

**Motion sensor not available with 480 (200-480V) model.

e - Estimate until confirmed by DLC testing.

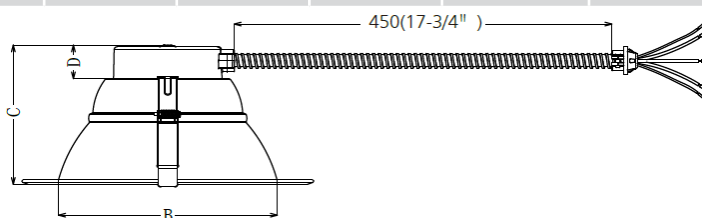
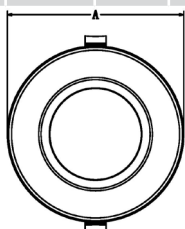
For more information, visit www.americanlightingdesign.com | 832.995.3424

TECHNICAL INFORMATION

UNIT			RAY-01-04	RAY-01-06	RAY-01-08	RAY-01-10
Dimensions			5 5/16" x 3 5/8"	8 5/16" x 4 3/8"	10 5/16" x 4 7/8"	11 9/16" x 5 1/2"
Cutout			4" x 5 1/4"	6 3/16" x 7 1/2"	8" x 9 1/2"	8 7/8" x 10 5/8"
Wattages			6w/8w/12w	8w/12w/16w	12w/16w/22w	22w/28w/33w
Rated Input Voltage			120v - 277v			
Input Voltage			AC 100v - 305v			
Light Source			SMD			
SDCM			<6			
CCT			3- CCT: WCKA (3000k, 3500k, 4000k), WCKB (3000k, 4000k, 5000k)			
CCT Selecion Dip Switch			YES			
Lumens +/- 5%	Non-Dim	3-CCT	CRI 90 470; 610; 830	CRI 90: 660; 910; 1,180	CRI 90: 1,060; 1,400; 1,950	CRI 90: 1,718; 2,110; 2,447
	DIM					
CRI			90			
Beam Angle			80°	80°	90°	90°
LED Driver			Built In			
Dimming Technology			0 - 10v			
Electrical Class			Class 1			
IP Rating			54 Wet Location			
Product Finishing (Base)			White RAL 9016			
Optic Material			Polycarbonate			
Housing Material			Polycarbonate/Aluminum			
Life (Hours)			50,000			
Glow Wire Test			850° C			
Max Operating Temp			77°			
Storage Temp			-4° F - 149° F			

SIZE AND DIMENSION INFORMATION

SIZE	DIMENSION (IN)				SIZE (IN)	PRODUCT WEIGHT LB		CARTON WEIGHT LB		CARTON SIZE	QTY/CTN
	A	B	C	D		NET	GROSS	NET CTN	GROSS CTN		
4"	5 15/16"	3 13/16"	3 5/8"	1 1/3"	5 5/16" x 3 5/8"	0.66	0.88	20.9	22.7	21 1/4" x 13 1/4" x 20 3/16"	24
6"	8 5/16"	2 6"	4 3/8"	1 1/3"	8 5/16" x 4 3/8"	1.12	1.5	17.7	19.8	18 1/2" x 17 7/8" x 11 17-3/4"	12
8"	10 5/16"	7 7/8"	4 7/8"	1 1/3"	10 5/16" x 4 7/8"	1.34	1.74	20.8	22.7	22 13/16" x 21-3/4" x 19-1/4"	12
10"	11 9/16"	8 5/8"	5 1/2"	1 1/3"	11 9/16" x 5 1/2"	1.65	2.31	13.3	15.9	24 3/4" x 13" x 21 3/16"	6



DRIVER INFORMATION

Total Load Wattage		6w/8w/12w	8w/12w/16w	12w/16w/22w	22w/28w/36w
Output	Output Voltage Range	30-40v	30-40v	30-40v	30-40v
	Rated Output Current	150mA/200mA/280mA	200mA/300mA/380mA	300mA/400mA/530mA	550mA/700mA/800mA
	Line Regulation	+/- 5%			
	Setup, Rise Time	120v<15			
	Flickering Index	<10%			
Input	Input Voltage	100 - 305v			
	Rated Input Voltage (V)	120 - 277v			
	Frequency	60HZ			
	Input Current	0.07 A/0.09A/0.14A	0.09A/0.14A/0.18A	0.14A/0.18A/0.25A	0.25A/0.32A/0.37A
	Rated Input Current	0.06A/0.08A/0.12A	0.08A/0.12A/0.15A	0.12A/0.15A/0.21	0.21 A/0.26A/0.31A
	Power Factor	0.8/0.9/0.9	0.8/0.9/0.9	0.8/0.9/0.9	0.8/0.9/0.9
	THD	<20%@277V	<20%@277V	<20%@277V	<20%@277V
	Efficiency	≥77%≥78%≥80%	≥ 81 %/≥82%≥83%	≥82%/≥83%≥83%	≥ 83%/≥84%≥85%
Protection	No Load Wattage	≤1w			
	Short Circuit Protection	Pass			
	Over Voltage Protection	Pass			
Safety & EMC	Over Temperature Protection	Pass			
	Withstand Voltage	I/P-O/P:3.75KVac,<5mA 60S; I/P-FG:1.6KVac,<5mA 60S; O/P-FG:0.5KVac,<5mA 60S			
	Isolated Resistance	I/P-O/P: 500VDC, ≥ 100M			
	Surge	ring-wave interference 2500V			
	EMC Emission	FCC part 15B			
	EMC Immunity	EN61000-4-2,3,4,5,6,8, 11; EN61547			