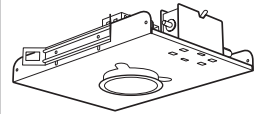


4.5" ROUND LED DOWNLIGHT

LEDS45



SUBMITTAL:

JOB:

TYPE:

VOLTAGE:

EXAMPLE

LEDS45 - 800 - 35K - CS - OPTIONS - ED*OS - 120

SERIES

LUMEN PACKAGE

MODULE COLOR TEMPERATURE

REFLECTOR FINISH

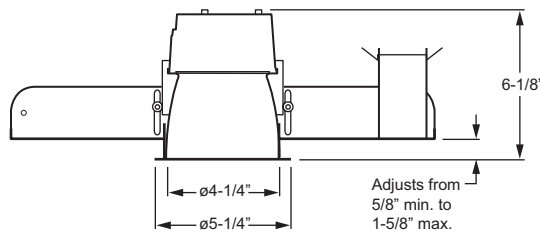
OPTIONS

DRIVER

VOLTAGE

FEATURES

- ▶ LEDs deliver an exemplary combination of light output, high-efficacy, and pleasing color.
- ▶ Rated for 50,000 hours at 70% lumen maintenance (L70).
- ▶ Nominal 83 CRI (color rendering index).
- ▶ 3500K color temperature.
- ▶ LED module and driver accessible from below ceiling plane for ease of maintenance.
- ▶ System-integrated emergency LED driver available.
- ▶ Module-integrated heat sink dissipates heat.
- ▶ Delivers quality illumination in a small 4.5" aperture.
- ▶ Integral pan throat field-adjusts to accommodate ceilings up to 1-5/8" thick.
- ▶ Self-flanged aluminum reflector offers maximum lamp performance and provides crisp, clean installation without unsightly light leaks.
- ▶ Adjustable hanger brackets with bar hangers standard.
- ▶ Sturdy one-piece pan construction with yoke mount.
- ▶ Easy-access 14-gauge galvanized steel junction box with two snap-on covers.
- ▶ This fixture is proudly made in the USA.



Pan Size: 12" x 16-1/4"
Ceiling Cutout: 4-3/4"



SPECIFICATIONS

Housing – 20-gauge die-formed galvanized steel pan/plaster frame with adjustable throat (5/8" to 1-5/8").

Reflector – Low-iridescent aluminum. Clear semi-specular (CS) finish standard.

LED Module & Driver – 14-watt, 700- or 800-lumen, 3500K, Osram Sylvania DLM LED module with Osram OPTOTRONIC® constant current, Class 2 power supply. Integral cast aluminum heat sink.

Electrical – Prewired at factory for easy field installation. Integral thermal protector.

Mounting – Recessed. **Labels** – cETLus conforms to UL STD 1598; Certified to CAN/CSA STD C22.2 No. 250.0. Suitable for damp locations.

Qualifications – RoHS compliant.

Warranty – 5-Year Parts Warranty provided by Osram Sylvania on LED module and driver.

ORDERING INFORMATION

SERIES

LEDS45 4.5" Round LED Downlight

LUMEN PACKAGE (Must specify)

700 14-watt, 700-lumen, Osram Sylvania DLM700 LED module

800 14-watt, 800-lumen, Osram Sylvania DLM800 LED module

LED MODULE COLOR TEMPERATURE

35K 3500K

REFLECTOR FINISH (Must specify)

CS Clear semi-specular (standard)

CG Champagne gold

GD Gold

PW Pewter

SG Satin-glow

SPC Clear specular

STR Straw

WT Wheat

OPTIONS

MWT Matte white trim

EM/I-2412EMA/1 Emergency LED driver

DRIVER (Must specify)

ED*OS	Osram Sylvania LED driver
EDD*LU*HILUME L3D ECO	Lutron Hi-lume® LED dimming driver for Eco-System® controls
EDD*LU*HILUME L3D 3WIRE	Lutron Hi-lume® LED dimming driver for 3-wire controls
EDD*LU*HILUME LTE LINE	Lutron Hi-lume® LED dimming driver for forward phase line voltage controls (120V only)

VOLTAGE (Must specify)

120	120V
277	277V (not available with EDD*LU*HILUME LTE LINE)





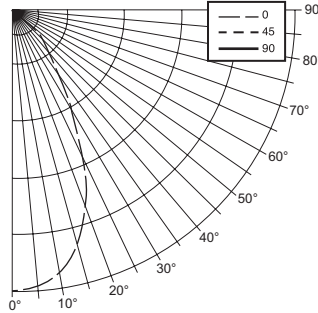
The U.S. Department of Energy's Lighting Facts® Program has verified product performance based on industry-standardized testing. For details, see H.E. Williams LEDS45 at www.lightingfacts.com/products.

PHOTOMETRY INFORMATION

Catalog #: **LEDS45-800-35K-SPC**

TEST REPORT INFORMATION

- ▶ Test Report #: 62653.0
- ▶ Date: 07/14/09
- ▶ Lamp Type: LED
- ▶ Lamp Quantity: 1
- ▶ **Rated Lumens: 595**
- ▶ **Watts: 16.8**
- ▶ **Lumens Per Watt: 35**
- ▶ **CRI: 84**
- ▶ **CCT: 3429K**



CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle 0°	Zonal Lumens
0°	631.	
5°	627.	59.0
15°	560.	156.0
25°	383.	175.0
35°	191.	120.0
45°	98.	77.0
55°	3.	6.0
65°	1.	1.0
75°	0.	1.0
85°	0.	0.0
90°	0.	

ZONAL CAVITY COEFFICIENTS

	Ceiling	.80			.70			.50		
	Wall	.70	.50	.30	.70	.50	.30	.50	.30	.10
Room Cavity Ratio	0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11
	1	1.13	1.10	1.08	1.11	1.08	1.06	1.04	1.02	1.01
	2	1.07	1.02	.98	1.05	1.01	.97	.97	.94	.92
	3	1.02	.95	.90	1.00	.94	.89	.91	.87	.84
	4	.96	.88	.83	.94	.87	.82	.85	.81	.77
	5	.91	.82	.76	.89	.82	.76	.80	.75	.71
	6	.86	.77	.71	.85	.76	.70	.75	.70	.66
	7	.82	.72	.66	.80	.71	.66	.70	.65	.61
	8	.78	.68	.62	.76	.67	.61	.66	.61	.57
	9	.74	.64	.58	.73	.63	.57	.62	.57	.53
	10	.70	.60	.54	.69	.60	.54	.59	.54	.50

Effective Floor Cavity Reflectance = .20

LIGHT CONE QUICK CALCULATOR TABLES

	Mounting Height (Ft)	FC at Edge of Cone	FC at Nadir	Cone Dia. (Feet)	
				Across	Diagonal
Room Cavity Ratio	8	4.9	9.9	7.2	7.2
	10	3.2	6.3	9.0	9.0
	12	2.2	4.4	10.8	10.8
	14	1.6	3.2	12.6	12.6
	16	1.2	2.5	14.4	14.4
	18	1.0	1.9	16.2	16.2
	20	0.8	1.6	18.0	18.0

Effective Floor Cavity Reflectance = .20

LUMEN SUMMARY

Zone	Lumens	% Fixture
0 - 30	390.	65.6
0 - 40	511.	85.8
0 - 60	593.	99.7
0 - 90	595.	100.0
Total Luminaire:		
0 - 180	595.	100.0

IES Spacing Criteria: Diagonal = 0.9
Across = 0.9

LUMINANCE DATA (cd/m²)

Vertical Angle	Horizontal Angle 0°
45	14707.
55	555.
65	251.
75	0.
90	0.

CANDLEPOWER MULTIPLIER

Catalog Number	Reflector Finish	Conversion Factor
SPC	Specular	1.02
CG	Champagne gold	.96
GD	Gold	.93
PW	Pewter	.86
STR	Straw	.97
WT	Wheat	.88

