

SYLVANIA Luminaires

UltraLED™ MICRODISK™

Application

The SYLVANIA UltraLED MICRODISK is a slim profile LED downlight kit with remote driver that operates on 120-277V universal input voltage. The 1" thin design allows for installation directly under joists in new and remodel construction. The high performing MICRODISK's IC design allows for installation without a housing. Ideal in bathrooms/kitchens, closets/attics, soffits, stairwells, or corridors.

Benefits and Features

- CRI of greater than 90 ensures a high quality of light
- No warm-up time, instant-on with full light output and stable lamp to lamp color
- 5VA fire-rated junction box eliminates need for recessed can
- Up to 91 LPW
- 2700K, 3000K, 3500K, 4000K, and 5000K color temperature
- CRI >90
- Phase-cut dimmable products offered in 8.5 and 12W, 0-10V dimmable versions offered in 8 and 13W
- 120° beam angle
- Energy savings up to 92%

Electrical

- 120/277V_{AC} (0-10V dimmable products)
- 120V (phase-cut dimmable products)
- Power Factor 92%
- THD <20%
- 0-10V dimmable or Phase-Cut dimmable (please see ordering information)

Rated Life

- 50,000 hours (L₇₀)

Warranty

- Standard 5-year luminaire warranty (LEDLUM001)

Ambient Operating Range

- -4°F to +104°F (-20°C to +40°C)

Certifications and Listings

- cETLus
- ENERGY STAR®
- RoHS
- FCC
- California Title 24 Compliant

Item #
Type
Project
Notes
Date



Wattage Comparison

Traditional Source	LED System Wattage	Energy Savings
100W BR40	8	92%
120W Incandescent	8, 13	90%

Installation

- For installation into 4" and 6" ceiling cut-outs
- 6" MICRODISK can be used in 8" applications with the trim extender accessory

Additional Specifications

- Suitable for use in closets, compliant with NFPA 70, NEC section 410.16 (A)(3) and 410.16 (C)(5)
- Compatible with Leading or Trailing Edge Dimmers: Leviton SureSlide (Model# 6674), Leviton Maestro C-L (Model# MACL-153M), Lutron Diva (Model# DVCL-153P), Lutron Caseta (Model# PD-6WCL), Legrand Radiant (Model# RHCL453P), Lutron Diva (Model# DVELV-300P), Lutron Maestro (Model# MAELV-600)
- Compatible with 0-10V Dimmers
- Complies with cULus Wet location listed, ceiling only (shower rated), and Damp location listed ceiling and wall.
- Not intended for use with emergency light fixtures or exit lights



Ordering Guide

LED	/	MD	X	/	XXX	/	9	XX	/	UNV
LED		Product Name MD = MICRODISK™	Size 4 = 4" 6 = 6"		Lumen Output 650 = 650 lumens 900 = 900 lumens 1100 = 1100 lumens		CRI 9 = >90	CCT 27 = 2700 30 = 3000 35 = 3500 40 = 4000 50 = 5000		Voltage UNV = 120-277

Ordering Information

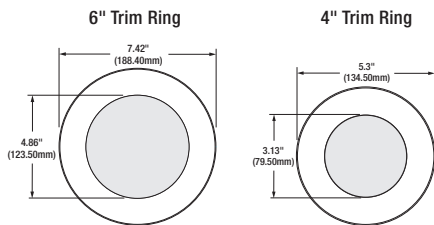
Item Number	Ordering Abbreviation	Power (W)	Input Voltage	Dimming	CRI	Color Temp (CCT)	Lumens	Lumens per Watt	ENERGY STAR® Listed
60700	LED/MD4/650/927/UNV	8	120/277	0-10V	>90	2700K	650	81	Yes
60696	LED/MD4/650/930/UNV	8	120/277	0-10V	>90	3000K	650	81	Yes
60701	LED/MD4/650/935/UNV	8	120/277	0-10V	>90	3500K	650	81	Yes
60694	LED/MD4/650/940/UNV	8	120/277	0-10V	>90	4000K	650	81	Yes
60697	LED/MD4/650/950/UNV	8	120/277	0-10V	>90	5000K	650	81	Yes
60702	LED/MD6/1100/927/UNV	13	120/277	0-10V	>90	2700K	1100	91	Yes
60698	LED/MD6/1100/930/UNV	13	120/277	0-10V	>90	3000K	1100	91	Yes
60703	LED/MD6/1100/935/UNV	13	120/277	0-10V	>90	3500K	1100	91	Yes
60695	LED/MD6/1100/940/UNV	13	120/277	0-10V	>90	4000K	1100	91	Yes
60699	LED/MD6/1100/950/UNV	13	120/277	0-10V	>90	5000K	1100	91	Yes
40051	LED/MD4/650/DIM/927	8.5	120V	Phase-Cut	>90	2700K	650	76	Yes
40052	LED/MD4/650/DIM/930	8.5	120V	Phase-Cut	>90	3000K	650	76	Yes
40053	LED/MD4/650/DIM/940	8.5	120V	Phase-Cut	>90	4000K	650	76	Yes
40054	LED/MD4/650/DIM/950	8.5	120V	Phase-Cut	>90	5000K	650	76	Yes
40055	LED/MD6/900/DIM/927	12	120V	Phase-Cut	>90	2700K	900	75	Yes
40056	LED/MD6/900/DIM/930	12	120V	Phase-Cut	>90	3000K	900	75	Yes
40057	LED/MD6/900/DIM/940	12	120V	Phase-Cut	>90	4000K	900	75	Yes
40058	LED/MD6/900/DIM/950	12	120V	Phase-Cut	>90	5000K	900	75	Yes

Accessories

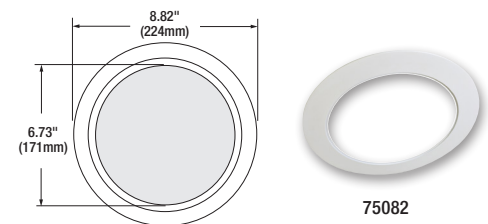
Trim Rings

Item Number	Finish	Description
74992	Dark Bronze 4" Trim Ring	LED/MD4TRIMDKBZ
74993	Black 4" Trim Ring	LED/MD4TRIMBLK
74994	Oil Rubbed Bronze 4" Trim Ring	LED/MD4TRIMORBZ
74995	Satin 4" Trim Ring	LED/MD4TRIMSN
74996	Dark Bronze 6" Trim Ring	LED/MD6TRIMDKBZ
74997	Black 6" Trim Ring	LED/MD6TRIMBLK
74998	Oil Rubbed Bronze 6" Trim Ring	LED/MD6TRIMORBZ
74999	Satin 6" Trim Ring	LED/MD6TRIMSN
75082	Trim Ring Extender	RT6/8/TRIMEXT

Trim Rings



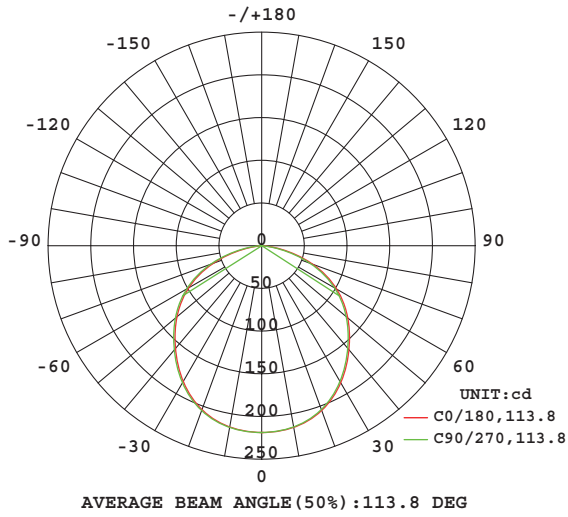
Trim Ring Extender



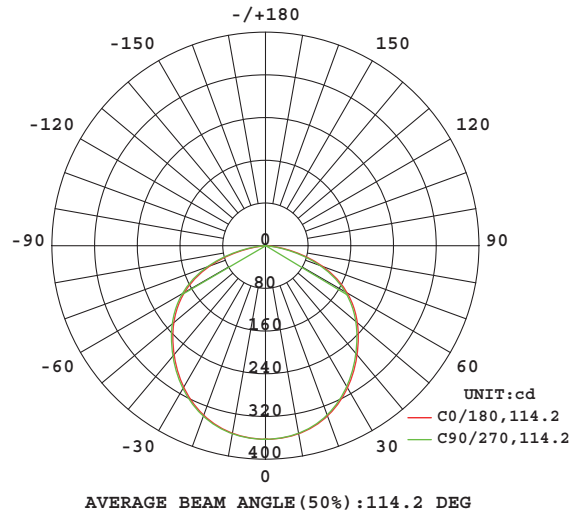
Photometrics

Luminous Intensity Distribution Diagrams

650 Lumens



1100 Lumens



Zonal Lumen Distribution

Zone	Lumens	% Retrofit Kit
0-20	149	13
0-30	316	27
0-40	518	44
0-60	919	78
0-80	1152	98
0-90	1176	100
10-90	1137	97
20-40	369	31
20-50	580	49
40-70	548	47
60-80	233	20
70-80	86	7
80-90	24	2
0-180	1176	100

Zonal Lumen Distribution

Zone	Lumens	% Retrofit Kit
0-20	90	13
0-30	190	27
0-40	310	45
0-60	548	79
0-80	683	98
0-90	697	100
10-90	674	97
20-40	221	32
20-50	346	50
40-70	324	46
60-80	135	19
70-80	49	7
80-90	13	2
0-180	697	100

Illuminance at a Distance

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Footcandles Beam Edge	Beam Diameter (feet)
2	101.6 fc	8.5 fc	6.1
4	25.4 fc	2.1 fc	12.1
6	11.3 fc	0.9 fc	18.2
8	6.4 fc	0.5 fc	24.3
10	4.1 fc	0.3 fc	30.3
12	2.8 fc	0.2 fc	36.4

Illuminance at a Distance

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Footcandles Beam Edge	Beam Diameter (feet)
2	61.3 fc	5.4 fc	5.9
4	15.3 fc	1.3 fc	11.8
6	6.8 fc	0.6 fc	17.7
8	3.8 fc	0.3 fc	23.6
10	2.5 fc	0.2 fc	29.5
12	1.7 fc	0.1 fc	35.4

Spacing to Mounting Height Ratio

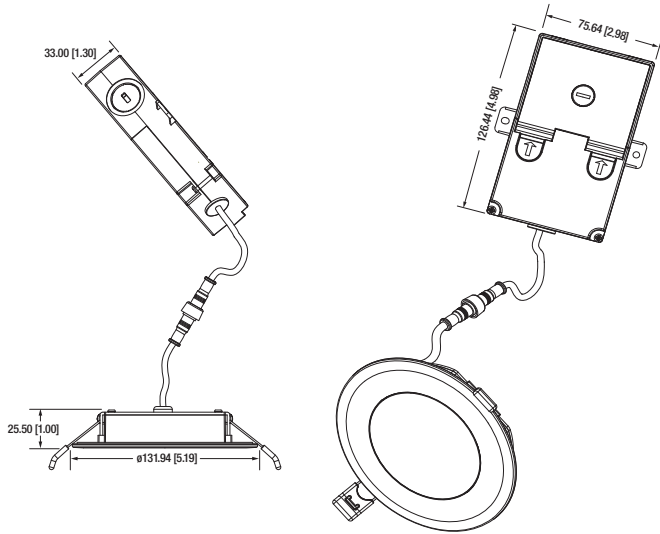
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.38

Spacing to Mounting Height Ratio

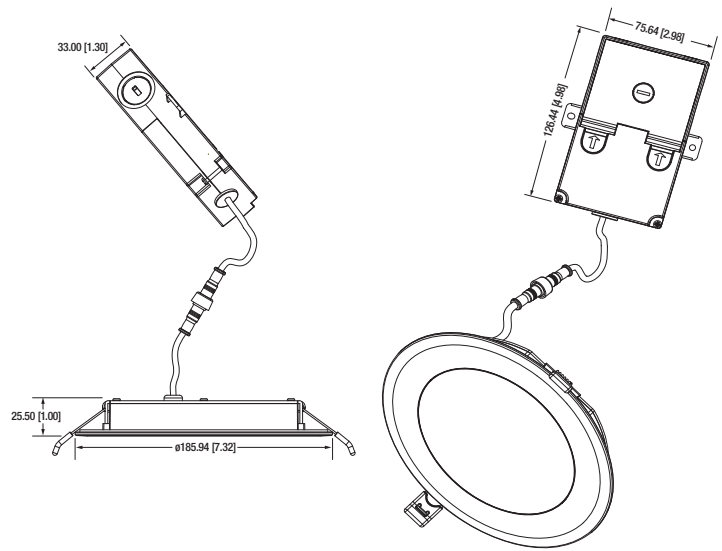
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.38

Physical Information

4 inch MICRODISK™ Phase-Cut



6 inch MICRODISK Phase-Cut



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