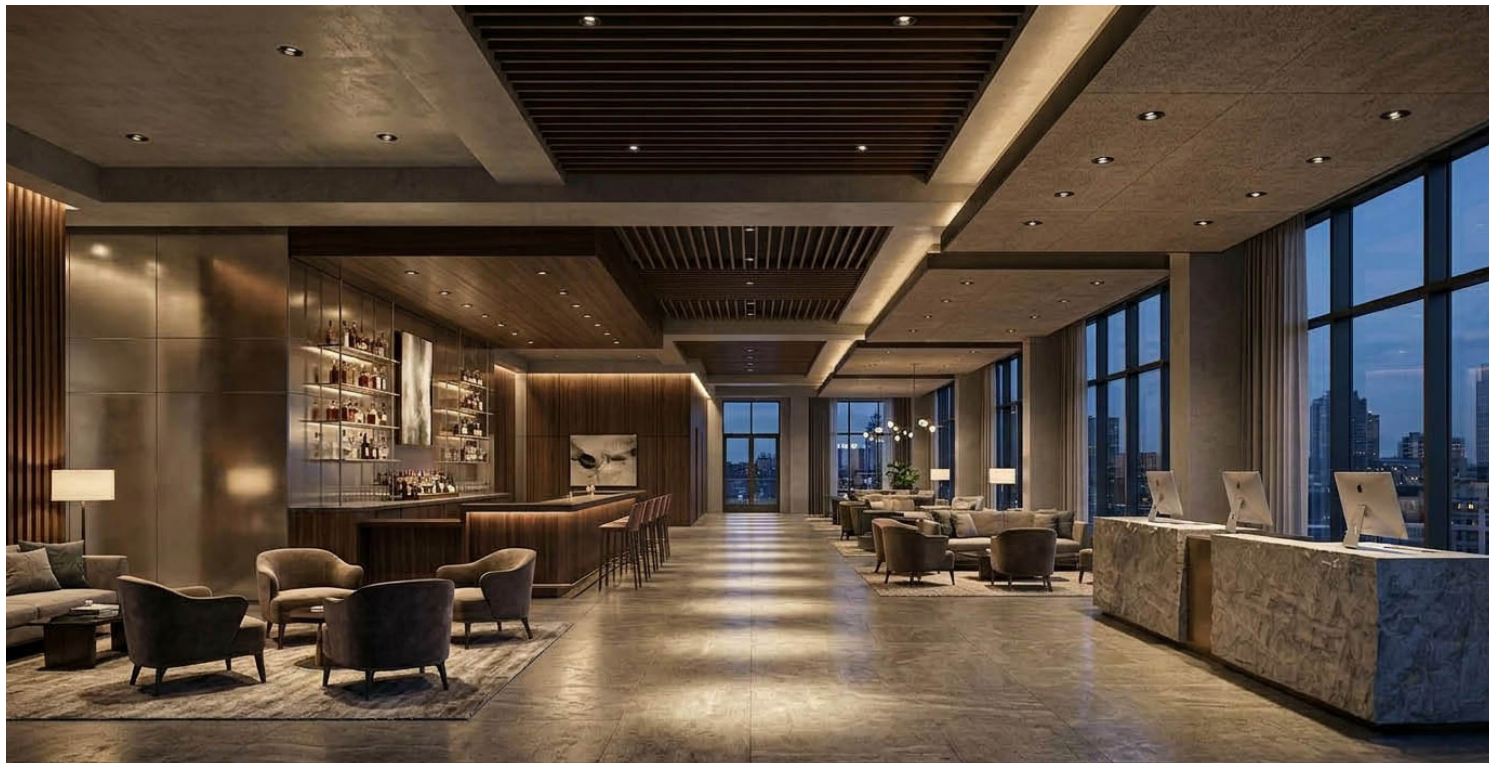




Small in size yet powerful in performance, this family of 3" aperture recessed downlights delivers up to 1,700 lumens. Designed for versatility, the series offers an extensive selection of optics, trim styles, trim configurations, beam spreads, housings, mounting options, and more to accommodate a wide range of architectural and lighting applications. With numerous configurable options, these compact downlights provide the flexibility needed to meet virtually any design requirement while delivering high-quality, consistent illumination.

Feature

- Architectural Friendly: Modular design, various unique combinations.
- Adjustable Ring: 360° rotation and a maximum 30° tilt angle.
- 2 in 1 Dimming: 0-10V (Dim to 1%) and TRIAC in one package.
- COB LED: 4 Fixed CCT 90+ CRI or Dim to Warm 95+ CRI options
- Beam Angle: 15° to 60° optics options. And Soft Glare lens option available.
- Trimmed or trimless options.
- New construction and remodel options for any site condition

Performance

Wattage Selectable	30°/3000K		50°/3000K		Dim to Warm 3000K~2000K 95+ CRI
	Efficacy	Lumens	Efficacy	Lumens	
5W	95lm/W	475lm	95lm/W	475lm	Up to 13W 1,200lm 95lm/W
8W	100lm/W	800lm	96lm/W	798lm	
10W	99lm/W	990lm	95lm/W	950lm	
13W	95lm/W	1,235lm	91lm/W	1,183lm	
16W	91lm/W	1,456lm	87lm/W	1,390lm	
19W	89lm/W	1,690lm	85lm/W	1,615lm	

Dimensions and values shown are nominal. LuminosoLED continually works to improve products and reserves the right to make changes which may alter the performance or appearance of products.



Round



Square



Trimless Round



Trimless Square



DLO 3 Mini Downlight

3 inch Mini Downlight Break down.

Engine

Advanced thermal management gives you optimal performance. Color temperature options, 27K, 30K, 35K, and 40K. Dim to Warm option, 30K to 20K (13W Max). 90+ CRI Standard / 95+ CRI (Dim to Warm ONLY)

Optics

Beam options, 15° and 60°

Adjustable Holder

Tilt angle and 360° horizontal adjustment.

Trim

Round trims available in White, Black finishes, in optional spackle flange for trimless look.

Trim Reflector

Trim reflector available in White, Black, Gold, and Chrome.

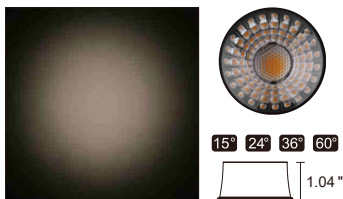
Accessories

Honeycomb for glare, and Glass lens for Wet Rated applications.



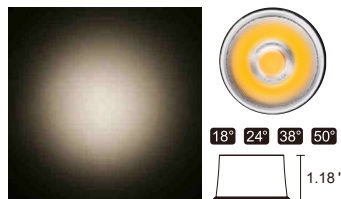
Lens Options

Standard Lens



Standard Lens: Features a classic reflector-style design that maximizes light transmission for optimal lighting performance.

Soft Lens



Low Glare Lens: Acts as a diffuser and anti-glare lens. It provides a softer, visually comfortable flood distribution with low Unified Glare Rating (UGR).

18° (UGR<10) - 24° (UGR<10)
38° (UGR<16) - 50° (UGR<19)

360° rotation & 30° maximum tilt



Electrical

LED Driver	Powered by a high-efficiency Class 2 LED driver, this luminaire features standard 0–10V dimming with continuous dimming down to 1%, or Triac dimming compatible with a wide range of controls. Built-in thermal overload protection automatically shuts down the luminaire when operating temperatures exceed designed limits, helping protect the system and ensure reliable performance.
THD	<20%
Power Factor	>0.9
Input Voltage	Standard electronic drivers are UL recognized and available for 110-277VAC.
Operating Temperature	-20°C to +40°C (-4° to +104°F)

Listings

- UL listed and Damp Rated
- 5 years limited warranty

NOTE:

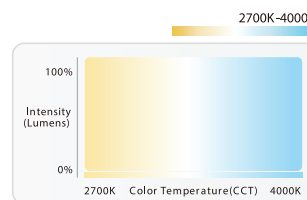
- To ensure optimal performance ambient temperatures should not exceed 104°F during regular operation.
- For indoor use only

LED System

COB	COB LED with a 90+ CRI is standard. 95+ CRI for Dim to Warm option. They have been tested in accordance with IESNA LM-80 and the results have shown L80 lumen maintenance greater than 50,000 hours.
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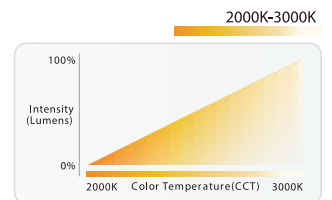
Color Temperature

- 2700K, 3000K, 3500K, 4000K
- 90+ CRI



Dim to Warm

- 2000K - 3000K
- 95+ CRI



Compatible Dimmers

0-10V Dimming (Dim to 1%)

LEVITON DD710	LUTRON NTSTV-DV	LEGRAND RH4FBL3	LUTRON DVSTV	LEVITON IP710
✓	✓	✓	✓	✓

TRIAC Dimming

LUTRON DV600P	LUTRON DVCL-153P	LEVITON 6683	LUTRON DV603P	LEVITON 6672	LUTRON S-603P	LUTRON LG-600P
✓	✓	✓	✓	✓	✓	✓

LUTRON MSCL-DP153M	LUTRON TGCL-153DH	LUTRON SCL-153P	LUTRON CTCL-153P	LUTRON CT-603PG
✓	✓	✓	✓	✓

DLO 3 Mini Downlight

3 inch Mini Downlight with Selectable Wattage

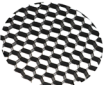
Project:	Date
Type:	
Model:	

Ordering Chart

Example: DLO-3R-WS19-Y-35K-36-RM-01-AR-TB-SB

DLO		WS19	Y				01	
Series	Size	Wattage Selectable	Voltage	CCT	Beam Options	Mounting	0-10V/TRIAC Dimming Standard	Adjustable Ring
DLO Downlight Mini	3R 3 inch Round	WS19 Wattage Selectable (19W/16W/13W/10W/8W/5W)	Y 120-277V	27K 2700K	15 15°	RM Remodel (Non-IC) NF* New Construction Frame Kit NIC* New Construction Housing Insulation Kit IC-Rated	01 Dim to 1% Or TRIAC Dimming (Dim to 1%).	FR Fixed Ring  AR Tilt Angle & 360° Horizontal Adjustment 
	3S 3 inch Square			30K 3000K	24 24°			
				35K 3500K	36 36°			
				40K 4000K	60 60°			
				DW Dim to Warm. 30K-20K Bridgelux COB (13W Max)	Low Glare L18 18° L24 24° L38 38° L50 50°			

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Flange Type	Trim / Reflector Options	Lens Accessory	Honeycomb Accessory	Emergency Battery Backup
TW Trimmed White TB Trimmed Black TL* Trimless	 SW Square White  SB Square Black  SG Square Gold  SC Square Chrome	Leave Blank No Lens LN Lens for damp area 	Leave Blank No Honeycomb HGL Honeycomb Anti-Glare Lens 	Leave Blank No Battery Backup EB Emergency Battery Backup 
	 RW Round White  RB Round Black  RG Round Gold  RC Round Chrome			
	 PWW White White  PWB White Black  PWG White Gold  PWC White Chrome  PBW Black White  PBB Black Black  PBG Black Gold  PBC Black Chrome			
	 OWW White White  OWB White Black  OWG White Gold  OWC White Chrome  OBW Black White  OBB Black Black  OBG Black Gold  OBC Black Chrome			
	 WWR Wall Wash White Round  WBR Wall Wash Black Round			
	 WWS Wall Wash White Square  WBS Wall Wash Black Square			

*Crawl space required to access Housing/Driver.

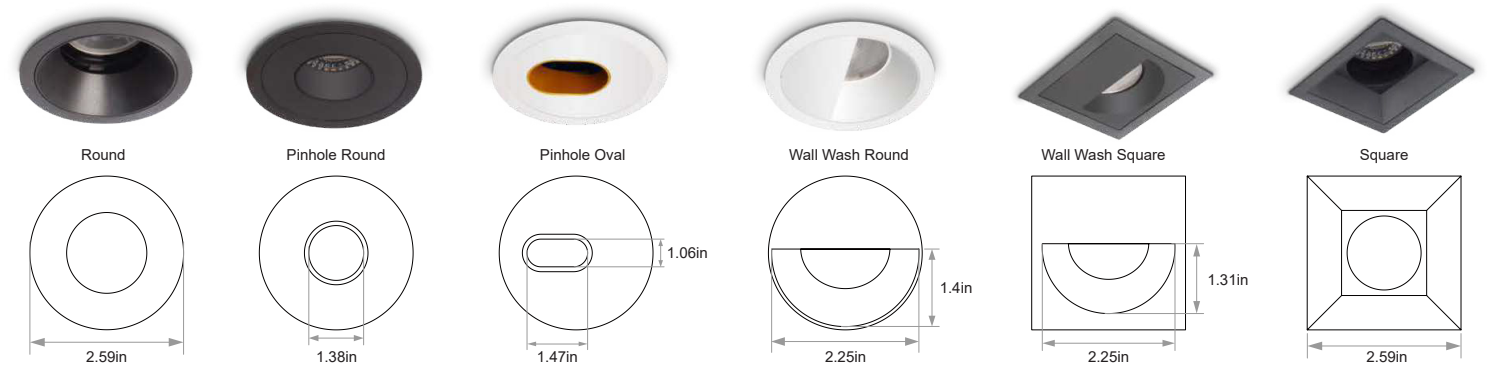
Dimensions and values shown are nominal. LuminosoLED continually works to improve products and reserves the right to make changes which may alter the performance or appearance of products.

DLO 3 Mini Downlight



3 inch Mini Downlight with Selectable Wattage

Trim Options & Dimensions



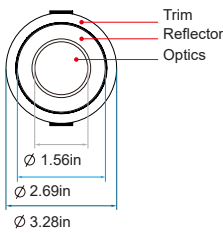
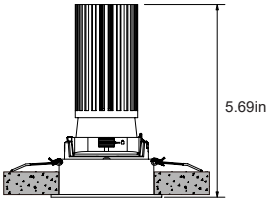
Configuration

DLO-3: 3 inch Round Trim



Opening Size Reference: Ø 3in

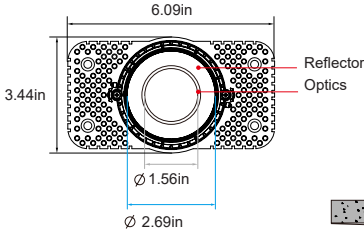
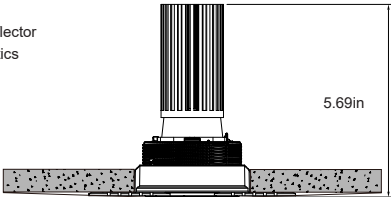
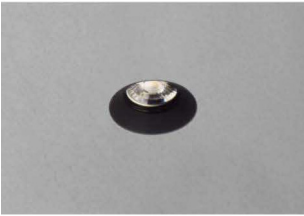
Dimensions



DLO-3: 3 inch Round Trimless



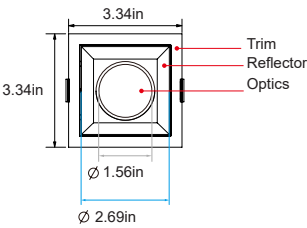
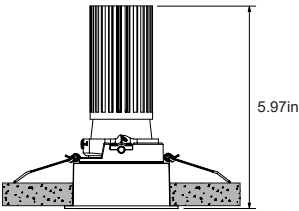
Opening Size Reference: Ø3.5in
*Crawl space required to access Housing/Driver.



DLO-3: 3 inch Square



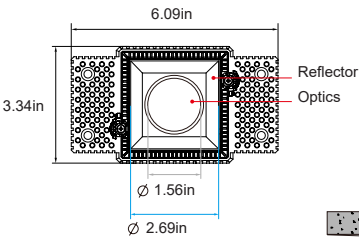
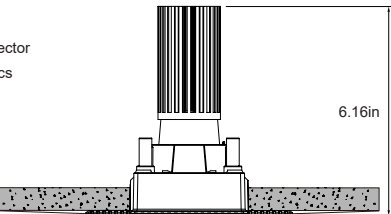
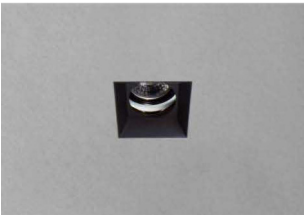
Opening Size Reference: Ø 3in x 2.875in



DLO-3: 3 inch Square Trimless



Opening Size Reference: Ø 3.5in x 3.31in
*Crawl space required to access Housing/Driver.

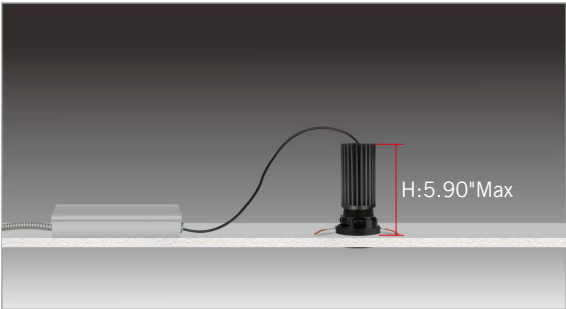


DLO 3 Mini Downlight

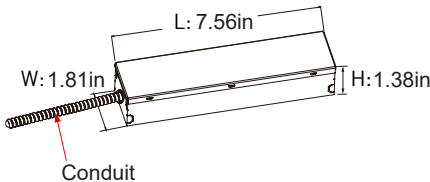


3 inch Mini Downlight with Selectable Wattage

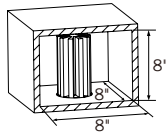
MOUNTING
Remodel (NON-IC Rated)



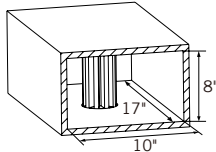
Remote Driver in box
Can be accessed from below.



Mounting space required
Up to 10W: Min 8x8x8 inch



Up to 16W: Min 17x10x8 inch

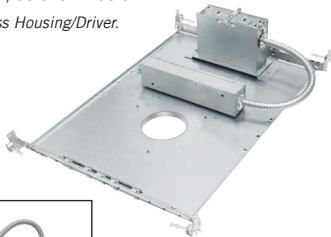


New Construction-Frame Kit (NON-IC Rated)*

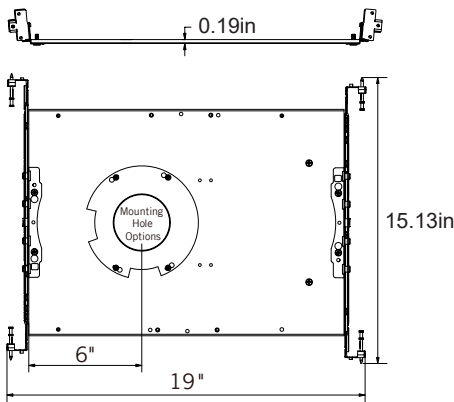
A rough-in frame option is available for new construction applications and a variety of ceiling types. The LED driver box securely attaches to the frame kit with an integrated magnetic mounting system, as shown below.

**Crawl space required to access Housing/Driver.*

Mounting Space Required
Frame Kit (NON-IC)
Min: 14x19x8in
Max: 24x19x8in

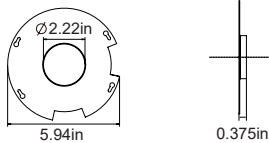


New Construction
Housing w/ Emergency
Battery Backup

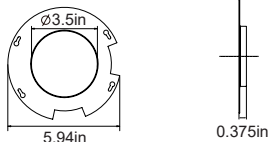


Mounting Options

2in Round Trim



2in Round Trimless



New Construction-Frame Kit (IC Rated)*

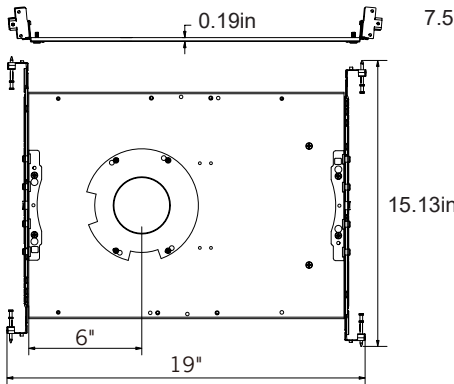
An IC-rated housing frame kit permits the 2-inch LED downlight to be installed in direct contact with insulation, allowing for installation in insulated ceiling applications.

**Crawl space required to access Housing/Driver.*

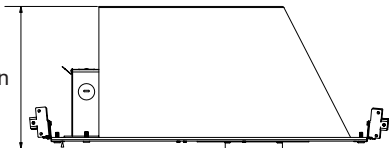
Mounting Space Required
Frame Kit (IC-Rated)
Min: 14x19x7.3in
Max: 24x19x7.3in



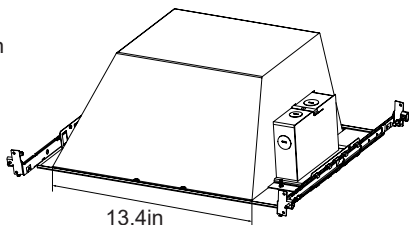
New Construction
Housing w/ Emergency
Battery Backup



7.53in



15.13in

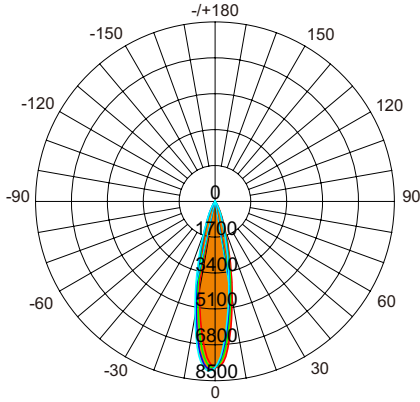


DLO 3 Mini Downlight

3 inch Mini Downlight with Selectable Wattage

PHOTOMETRICS

3" Round / 19W / 3000K / 24°



Lumens: 1687.3 Lm
Watts: 19W
LPW: 89.60 Lm/W
CCT: 3000K

UNIT: cd
— C0/180,22.6°
— C30/210,22.5°
— C60/240,22.6°
— C90/270,22.5°

Zonal Flux Diagram

§	C0	C45	C90	C135	C180
10	4692	4157	3789	3903	4333
20	1363	1157	1005	1035	1168
30	307.5	269.5	220.7	207.2	240.7
40	14.08	14.54	14.73	14.24	13.66
50	4.167	4.152	4.343	4.449	4.585
60	2.910	3.014	3.282	3.277	3.334
70	1.667	1.879	2.086	2.094	1.894
80	0.4451	0.4716	0.6493	0.5151	0.4606
90	0.0311	0.0135	0.0317	0.0091	0.0223
100	0.0266	0.0450	0.0227	0.0453	0.0444
110	0.2036	0.2749	0.3032	0.3265	0.0979
120	1.077	1.306	1.511	1.500	0.5293
130	3.854	4.383	4.893	4.808	2.099
140	8.471	9.035	9.516	9.460	6.040
150	11.99	12.27	12.49	12.45	10.65
160	13.21	13.05	13.10	12.98	12.59
170	11.69	11.24	11.06	10.99	11.16
180	9.987	10.21	10.16	10.30	10.01
DEG	LUMINOUS INTENSITY:cd				

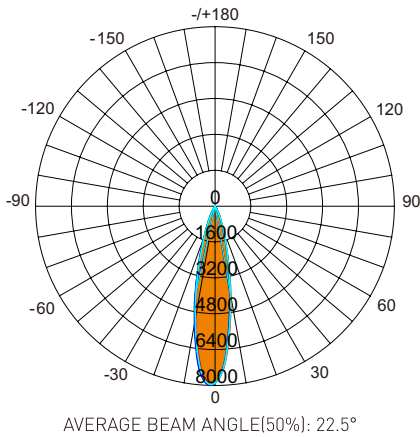
Zonal Lumens

§	Ç total
0-10	576.8
10-20	1287
20-30	1588
30-40	1652
40-50	1658
50-60	1661
60-70	1664
70-80	1665
80-90	1665
90-100	1665
100-110	1665
110-120	1666
120-130	1667
130-140	1671
140-150	1677
150-160	1683
160-170	1686
170-180	1687
UNIT: lm	

Luminance cd/(m2)

G(DEG)	C0/180	C90/270
85	180	638
80	744	1063
75	1112	1426
70	1414	1735
65	1711	1995
60	1689	1866
55	1756	1832
50	1881	1921
45	2314	2250

3" Square / 19W / 3000K / 24°



Lumens: 1609.3 Lm
Watts: 19 W
LPW: 85.64 Lm/W
CCT: 3000K

UNIT: cd
— C0/180,22.5°
— C30/210,22.5°
— C60/240,22.8°
— C90/270,22.5°

Zonal Flux Diagram

§	C0	C45	C90	C135	C180
10	4048	3864	3957	4441	5003
20	990.0	983.0	1048	1205	1367
30	188.4	199.2	211.4	234.7	273.7
40	11.87	15.51	12.83	17.25	14.22
50	7.034	7.424	7.276	7.575	7.011
60	6.750	7.004	7.307	8.800	6.668
70	1.541	2.531	1.626	3.081	1.640
80	0.4825	0.4814	0.6059	0.4547	0.4580
90	0.0315	0.0225	0.0454	0.0226	0.0270
100	0.0270	0.0496	0.0316	0.0406	0.0540
110	0.2110	0.2483	0.2026	0.1987	0.0990
120	1.222	1.277	1.199	1.043	0.3785
130	4.310	4.431	4.330	3.869	1.564
140	8.860	8.974	8.882	8.419	5.014
150	11.92	11.94	11.92	11.68	9.680
160	12.72	12.49	12.62	12.55	12.14
170	10.70	10.46	10.70	10.82	11.03
180	9.356	9.628	9.623	9.696	9.401
DEG	LUMINOUS INTENSITY:cd				

Zonal Lumens

§	Ç total
0-10	198.8
10-20	656.9
20-30	1051
30-40	1188
40-50	1209
50-60	1215
60-70	1219
70-80	1221
80-90	1221
90-100	1221
100-110	1221
110-120	1222
120-130	1224
130-140	1227
140-150	1230
150-160	1234
160-170	1236
170-180	1237
UNIT: lm	

Luminance cd/(m2)

G(DEG)	C0/180	C90/270
85	140	554
80	619	774
75	849	911
70	1004	1055
65	2826	2900
60	3007	3243
55	2626	2749
50	2437	2512
45	2299	2348