HL6-LED 6”

6” Architectural High Lumen LED Downlight



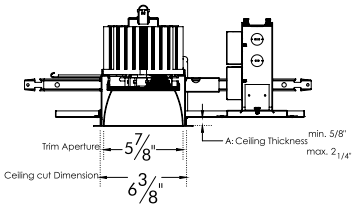


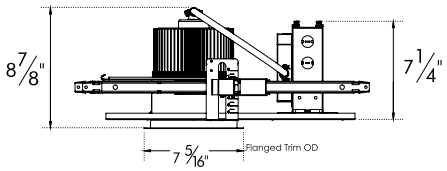
HL6-6501
Flanged Downlight

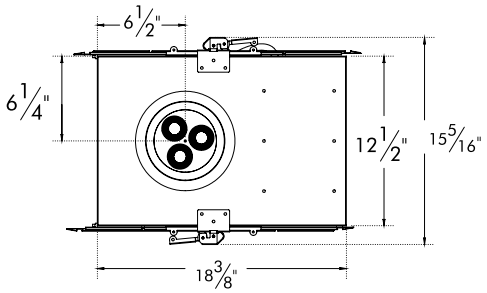
REFLECTOR/ FLANGE COLORS



CL-WH SHZ-WH CL-SCH SHZ-SHZ W-WH







NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
8000	8138	78 W
10000	10102	99 W
12000	11795	116 W

FEATURES

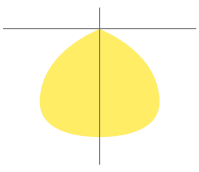
A highly sustainable and ultra-efficient architectural LED downlight that provides even, glare-free illumination. Available in a range of finishes, distributions, and lumen packages, it is ideally suited for use in corporate office space, hospitality, healthcare, commercial, academic, churches and retail.

OPTICS AND REFLECTOR

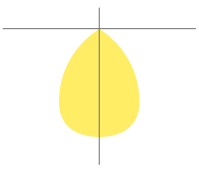
The reflector has a 45° visual cutoff, and is shipped standard with a Solite lens in a smooth frosted finish. Spun from 0.05” thick aluminum, with a 1-step anodized finish, and available in different colors or custom RAL finishes. Reflector flange options include self-flanged and white painted flange. Various distribution options are available, and all optics are field changeable.

LUMENS	8000L, 10000L, 12000L
CCT & DYNAMIC PLATFORMS	22K, 27K, 30K, 35K, 40K, 50K, Tunable White, Dims to Warm, RGB+White
CRI	90+ Standard, 98+ Optional
COLOR QUALITY	2 Step MacAdam Ellipse
DISTRIBUTIONS	VWD (Very Wide Distribution), WD (Wide Distribution), MD (Medium Distribution), ND (Narrow Distribution)
TRIM OPTIONS	Downlight
REFLECTOR COLORS	CL(Semi-Specular Chrome), SHZ (Low Iridescent Satin Haze), WH (White)
FLANGE COLORS	Self-Flanged WH (White), SCH (Semi-Specular Chrome), SHZ (Low Iridescent Satin Haze)
DIMMING	0-10V Flicker Free 1% Dimming Standard (DIM10), LUTH, ELDO10.1-LIN, ELDODMX.1, ELDODALI.1, DIMTR, BLE,POE, ELDO10-LOG, XSR, DIM10-AUX, DIM10-0-Off
EMERGENCY	10W - Up to 1000L Output 20W - Up to 2000L Output EMG-LED-G2-10W-SDT - Self Diagnostic (Consult Factory) GTD-UL924
LIFETIME	L70>72,000-hour reported lifetime for Standard models L70>50,000-hour reported lifetime for HP models
PHOTOMETRIC TESTS	In Accordance with IES LM79-08 and LM80 and TM-30, TM-21

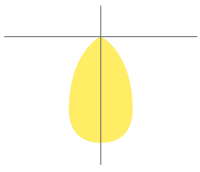
VWD: Very Wide



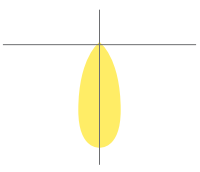
WD: Wide



MD: Medium



ND: Narrow



Reference IES files for additional distribution curve information.

Due to the changes of constant improvement in LED technology, all details are subject to change without notice. Consult factory for up to date information.
RS190627/NS190711/ BB190711

THERMAL MANAGEMENT SYSTEM

The fixture features a passive-cooling diecast aluminum heat sink, with a replaceable and upgradeable LED light engine and driver that can be conveniently accessed from below the ceiling. A unique locking mechanism ensures precise alignment of the reflector with the light engine, delivering consistent, high-quality light performance.

MOUNTING FRAME & BRACKETS

The downlight mounting frame is a fabricated assembly constructed of 16-gauge steel, with C-channel mounting brackets, included. The versatility of the mounting brackets allow for an adjustability of up to 28” horizontally, and 2-3/4” vertically, locking into place. With the added die-formed construction of the mounting frame, it provides maximum heat dissipation and rust protection.

DRIVER ELECTRICAL INFORMATION

The LED driver is rated for 50 to 60Hz at 120V/277V, also available in 347V input, produces less than 20%THD, has a power factor between 90% and 100%, and is thermally protected for additional safety. Junction box and Driver can be accessed from below the ceiling and above the ceiling. Junction Box is Listed for through branch circuit wiring.

DIMMING & DRIVER INFORMATION

DIM10 - 0-10V dimming on either MVOLT 120, 277 or 347V. Dimmable down to 1% of initial lumens, standard.
DIMTR - Triac & Electronic low voltage dimming. Available in 120V.
LUTH - Lutron LDE1 Hi-Lume 1% Eco System LED driver with Soft-on, Fade to Black dimming technology.
ELDO10.1-LIN - EldoLED SoloDrive 0-10V. Dimming down to 0.1%. Linear dimming curve.
DALI - DALI DT6, DT8 dimming down to 1%.
ELDODMX - EldoLED PowerDrive dimming down to 0.1%.
BLE - Luminaires may be controlled, grouped, scheduled or placed in scenes and or zones Via Cassambi Bluetooth 4.0 App.
DIM10-0-OFF - Program DIM10-to OFF with linear dimming curve 0.1%
ELDO10- LOG - ELDO10-LOG with logarithmic dimming curve.
POE - Power-over-Ethernet Depending on the PoE manufacturer selected, The Node will install the node in factory as either integral to the luminaire or as a remote module.
XSR - Xitanium SR Dimming
DIM10-AUX - 0-10V with Auxiliry power

LED DYNAMIC PLATFORM OPTIONS

Tunable White with Smart White Technology utilizing the Lumenetix Platform allows you to color tune the luminaire via various controls. Create the perfect environment for the desired use of the space, while maintaining a CRI of 90+ across the tunable range of 8000 to 1650K.

Dims to Warm with Smart Dimming Technology. At 100% full brightness the luminaire is at 3000K. When dimmed to 1%, the light transitions to 1800K, creating a warm ambiance within the space.

RGB+White with Smart Hue Technology provides full color mixing of RGB and white colors. Utilizing the Lumenetix Platform allows you to choose from unlimited RGB color options, via various controls. Ideal for Circadian Rhythm applications or to create the perfect human centric environment.

LIGHT ENGINE:

Contains a plurality of high brightness white LED’s combined with high reflectance upper reflector and convex transitional lens producing even distribution with no pixilation.
Lumen output shall not decrease by more than 30% over the minimum life of 102,000 hours (L70 > 102,000 hours) Color variation within 2-step MacAdam ellipses. Flexible disconnect allows for tool-less replacement of LED engine from below ceiling Available in 2200K, 2700K, 3000K, 3500K, 4000K and 5000K correlated color temperature (CCT). Available in 90 or 98 color rendering index (CRI)

WARRANTY

Five-year warranty for parts and components. (Labor not included)

LISTINGS

c-UL-us - Listed for Damp location.
Energy Star and California Title 24 compliant.
BAA- Buy American Act Compliant government procurement requirements under FAR, DFARS and DOT regulations.

Example: **HL6-LED-8000L-DIM10-MVOLT-MD-40K-90-HL8-8501-CL-WH**

SERIES	LUMENS	DRIVER	VOLTAGE	CCT	EMERGENCY	OPTICAL ACCESSORIES	TRIM TYPE	REFLECTOR/ FLANGE COLORS
HL6-LED	❑ 8000L ❑ 10000L ❑ 12000L	❑ DIM10 ❑ DIMTR [4] ❑ LUTH ❑ ELDO10-.1-LIN ❑ ELDODALI-.1 ❑ ELDODMX-.1 ❑ BLE ❑ POE ❑ DIM10-0-OFF ❑ ELDO10-LOG ❑ XSR ❑ DIM-AUX	❑ 120 ❑ 277 ❑ MVOLT ❑ 347 [3] (DIM10 only)	❑ 22K ❑ 27K ❑ 30K ❑ 35K ❑ 40K ❑ 50K [1]	❑ EMG-LED-10W ❑ EMG-LED-20W ❑ EMG-LED-G2-10W-SDT* ❑ GTD-UL924 Remote mounted installation * Consult Factory for Self Diagnostic	❑ TGL-CL- TEMPERED GLASS prismatic lens ❑ TGL-FR - TEMPERED GLASS frosted prismatic lens (75° only)	❑ HL6-6501	❑ CL-WH ❑ CL-SCH ❑ SHZ-WH ❑ SHZ-SHZ ❑ WT-WH ❑ W-WH ❑ MB-WH ❑ CL-BK ❑ MB-BK
			OPTICS ❑ VWD 84º ❑ WD 60º ❑ MD 36º ❑ ND 30º	**CRI** ❑ 90+ ❑ 98+ [2]				

[1] **50K** series are available with 85+ CRI only [2] **98+** CRI is available in 27K, 30K and 40K only -**Reference last page for Control Options**
[3] 347 is only available on **DIM10** [4] **DIMTR** available in 120V only

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08-18-2025

35K-90CRI

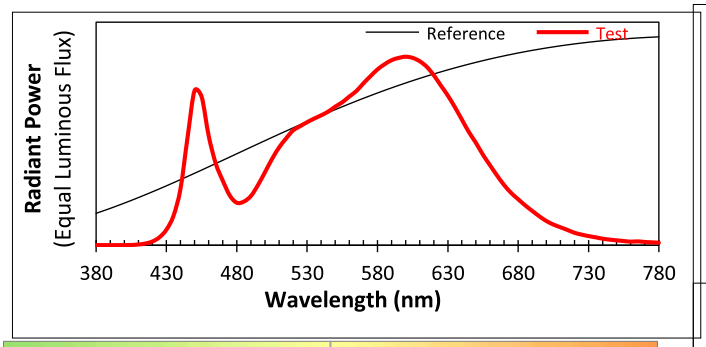
ANSI/IES TM-30-18 Color Rendition Report

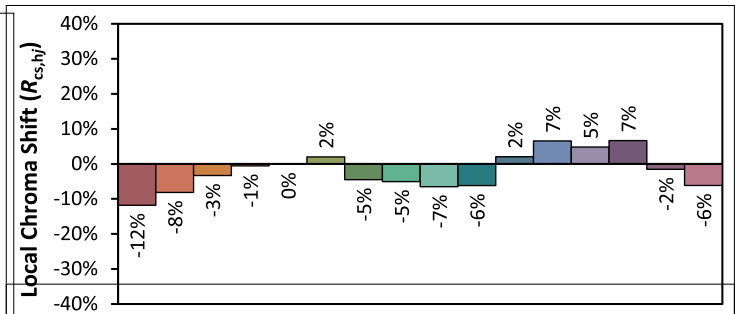
Notes: This is a recommended method for displaying ANSI/IES TM-30-18 information.

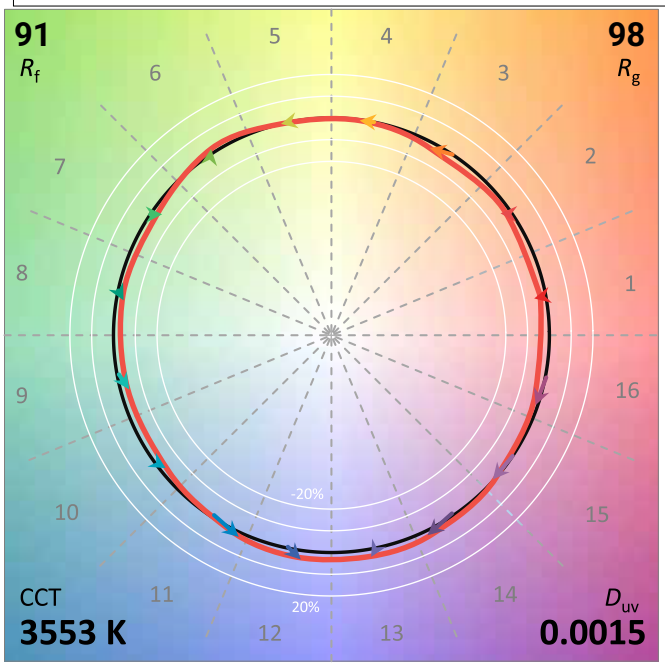
x	0.4039
y	0.3935
u'	0.2337
v'	0.5122

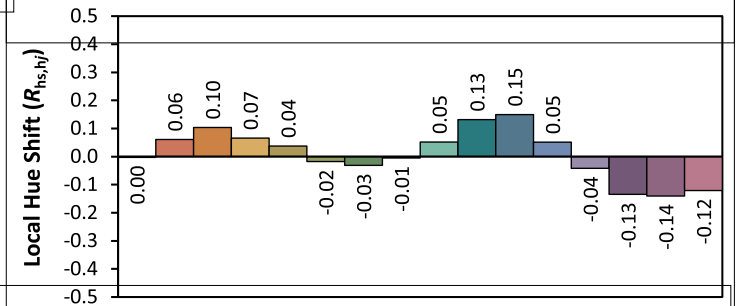
CIE 13.3-1995 (CRI)	
R_a	91
R_9	58

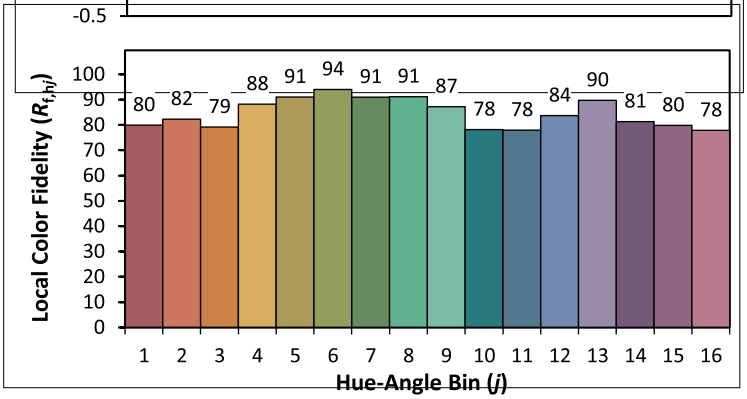
Colors are for visual orientation purposes only. Created with the ANSI/IES TM-30-18 Calculator Version 2.00.

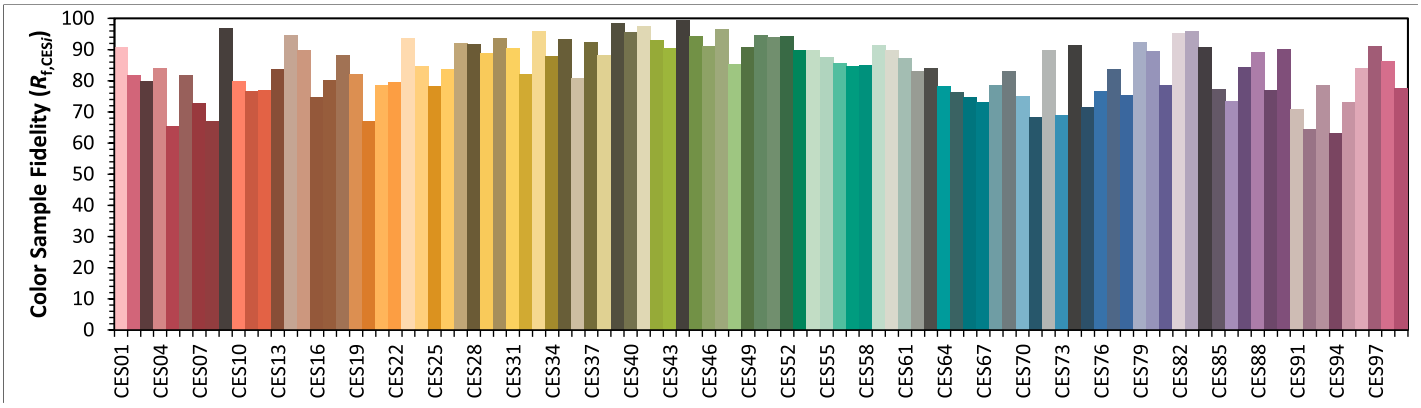












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1- Luminaire will be shipped with Powerpacks pre-installed, ready to be integrated to designated contol systems
2- Luminaire will be shipped with Sensors installed on the luminaire, allowing for individual luminaire control. Luminaires will be ready to be integrated with designated control systems
3- Luminaire will be shipped with Sensors to be remotely installed on the ceiling. Luminaires will be ready to be integrated with designated con trol systems

BRAND	NX LIGHTING CONTROLS	LUTRON	LEVITON	ENCELIUM	PHILIPS EasySense	legrand®
CONTROL UNIT	❏ NXFM-1R2D-0-UNV NX Fixture Module, Offset, 1 Relay, 2 0-10V Dimming Channels, 120-347VAC, Blue	❏ FCJS-010 Lutron Vive 0-10V Individual Pow Pak (Luminare is shipped Vive Enabled) [14] ❏ FCJS-ECO Lutron Vive Eco-system Pow Pak (Luminare is shipped Vive Enabled) ❏ A-WN-D01-RF-WH Athena wireless node (RF only) (White) ❏ A-WN-D01-OCC-WH Athena wireless node with sensor (White)	❏ ZL027 –N0W Intellect Power Control Module [16] ❏ ZL027 –N0W Intellect Power Control Module [16]	❏ EN-WCM2-ZB-DR Wireless Control Module[17] ❏ EN- ALC-ZB-BK-DR Wireless Area Lighting Control Module [17] ❏ ZBHA-CLM-DIM-ENC Connected Lighting Module DIM [17]	❏ SBR -BS Xitanium SR Bridge [18]	❏ LMFC-011 ON/OFF/0-10V dimming fixture controller [19]
INTEGRAT SENSOR	N/A	N/A	N/A	N/A	N/A	N/A
*WIRELESS OCCUPANCY SENSOR	❏ NXSMP2-SMI NX Slide Mount Indoor Sensor Module	N/A	N/A	N/A	N/A	❏ LMDC-100 Dual technology PIR Ceiling Mount Occupancy Sensor [3]
*WIRELESS DAYLIGHT SENSOR	❏ LUXSTATLS Luxstat Light Sensor for Luxstat Control Modules, 3 to 6000 FC	N/A	N/A	N/A	N/A	❏ LMLS-400 Single zone switching and dimming digital photosensor [3]
*WIRELESS OCCUPANCY & DAYLIGHT SENSOR	❏ NXSMDT Indoor Ceiling Mount Sensor - OMNI	N/A	❏ ZL00J -T0W Intellect Intelligent Fixture Control System [3] **(Must be specified with ZL027 –N0W Control Unit)**	❏ EN-CLM-PIR-DD-ZB SensiLUM™ Wireless Integrated Sensor ❏ EN-SCPPH-1500-ZB Wireless Passive Infrared Occupancy and Photo Sensors [3] **(Must be specified with EN-WCM2-ZB-DR or EN-ALC-ZB-BK-DR Control Unit)**	❏ SNS200-CMP SNS200 for grouping [3]	N/A
ACCESORIES	N/A	N/A	N/A	N/A	N/A	N/A
NOTES	N/A	4- Luminaire will be compatible with Lutron LRF2-OCR2B-P-WH Ceiling mount360° occupancy/va-cancy sensor & LRF2-DCRB-WH Ceiling-mount daylight sensor. Sensors must be ordered through Lutron.	6-Luminaire will be compatible with Leviton Intellect App & Keypad Room Controller	7-Luminaire will be compatible with EN-SCPPH-1500-ZB Wireless Passive Infrared Occupancy and Photo Sensors	8-Luminaire will be compatible with Philips field and wireless switch.	9-Luminaire will be compatiable with DLM Room control system LMPB-100. DLM control system must be orderd through Legrand.

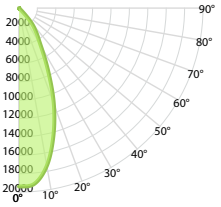
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HL6-LED-12000L-DIM10-MVOLT-MD-40K-90-HL6-6501-CL-WH

TEST NO.: **EL10282453**

INPUT WATTS: **115.9** LUMENS: **11197** EFFICACY: **97** BEAM ANGLE: **36** SPACING CRITERIA: **0.70**

CANDELA DISTRIBUTION



CANDELA TABLE

	0°	90°
0°	19390	19390
10°	17409	16740
20°	11060	10818
30°	4759	4530
40°	2148	1171
50°	122	108
60°	24	22
70°	7	6
80°	3	2
90°	0	0

LUMINANCE (cd/sq.m)

	0.00°	90.00°
0.00°	738159	738159
45.00°	20763	32882
55.00°	3474	3179
65.00°	1142	876
75.00°	660	550
85.00°	459	297

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	1815
10° - 20°	3868
20° - 30°	3358
30° - 40°	1595
40° - 50°	475
50° - 60°	62
60° - 70°	15
70° - 80°	4
80° - 90°	1

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LUMINAIRE
0° - 20°	5683	51%
0° - 30°	9041	81%
0° - 40°	10636	95%
0° - 60°	11173	100%
0° - 80°	11192	100%
0° - 90°	11193	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0° -180°	BEAM DIA. 90° -270°
6.0 ft	538.6 fc	4.8 ft	4.8 ft
8.0 ft	303.0 fc	6.4 ft	6.3 ft
10.0 ft	193.9 fc	8.1 ft	7.9 ft
12.0 ft	134.7 fc	9.7 ft	9.5 ft
14.0 ft	98.9 fc	11.3 ft	11.1 ft
16.0 ft	75.7 fc	12.9 ft	12.7 ft
18.0 ft	59.8 fc	14.5 ft	14.3 ft
20.0 ft	48.5 fc	16.1 ft	15.9 ft

INDOOR COEFFICIENTS OF UTILIZATION

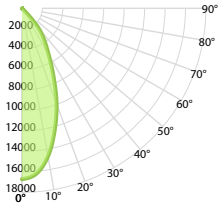
ρf							20%											0%
ρc		80%				70%				50%				30%			10%		0%
ρw	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
0	119	119	119	119	117	117	117	117	111	111	111	107	107	107	102	102	102	100
1	114	112	109	107	112	110	108	106	106	104	102	102	101	99	98	97	97	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89
3	104	99	94	90	103	97	93	90	95	91	88	92	89	87	90	88	86	84
4	100	93	88	84	98	92	87	84	90	86	83	88	84	82	86	83	81	79
5	95	88	83	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75
6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	68	67
8	84	75	70	66	83	75	69	66	74	69	66	73	68	65	72	68	65	64
9	80	72	66	63	79	71	66	63	70	66	62	69	65	62	69	65	62	61
10	77	68	63	60	76	68	63	59	67	63	59	66	62	59	66	62	59	58

HL6-LED-12000L-DIM10-MVOLT-WD-40K-90-HL6-6501-CL-WH

TEST NO.: **EL10282453**

INPUT WATTS: **116.3** LUMENS: **11815** EFFICACY: **102** BEAM ANGLE: **60** SPACING CRITERIA: **0.72**

CANDELA DISTRIBUTION



CANDELA TABLE

	0°	90°
0°	16719	16719
10°	14705	15120
20°	9906	10960
30°	5234	5705
40°	2528	1657
50°	113	180
60°	20	24
70°	7	7
80°	2	2
90°	0	0

LUMINANCE (cd/sq.m)

	0.00°	90.00°
0.00°	636483	636483
45.00°	28967	45748
55.00°	2827	3718
65.00°	967	1018
75.00°	615	657
85.00°	319	376

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	1591
10° - 20°	3607
20° - 30°	3707
30° - 40°	2110
40° - 50°	693
50° - 60°	82
60° - 70°	16
70° - 80°	5
80° - 90°	1

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LUMINAIRE
0° - 20°	5198	44%
0° - 30°	8905	75%
0° - 40°	11015	93%
0° - 60°	11790	100%
0° - 80°	11810	100%
0° - 90°	11811	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0° -180°	BEAM DIA. 90° -270°
6.0 ft	464.4 fc	5.6 ft	5.6 ft
8.0 ft	261.2 fc	7.4 ft	7.5 ft
10.0 ft	167.2 fc	9.3 ft	9.3 ft
12.0 ft	116.1 fc	11.1 ft	11.2 ft
14.0 ft	85.3 fc	13.0 ft	13.1 ft
16.0 ft	65.3 fc	14.8 ft	14.9 ft
18.0 ft	51.6 fc	16.7 ft	16.8 ft
20.0 ft	41.8 fc	18.5 ft	18.7 ft

INDOOR COEFFICIENTS OF UTILIZATION

ρf							20%											0%
ρc		80%				70%				50%				30%			10%		0%
ρw	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
0	119	119	119	119	116	116	116	116	111	111	111	107	107	107	102	102	102	100
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88
3	103	97	93	89	101	96	92	88	93	90	87	91	88	85	89	86	84	82
4	99	91	86	82	97	90	85	82	88	84	81	86	83	80	84	81	79	77
5	94	86	80	76	92	85	80	76	83	79	75	82	78	75	80	77	74	72
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68
7	85	76	71	67	84	76	70	66	75	70	66	73	69	66	72	68	65	64
8	81	72	67	63	80	72	66	63	71	66	62	70	65	62	69	65	62	60
9	78	69	63	59	77	68	63	59	67	62	59	66	62	59	65	61	58	57
10	74	65	60	56	73	65	59	56	64	59	56	63	59	56	62	58	55	54

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08-18-2025