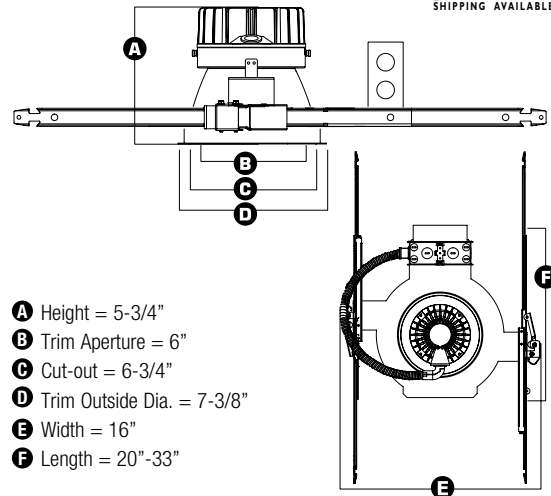
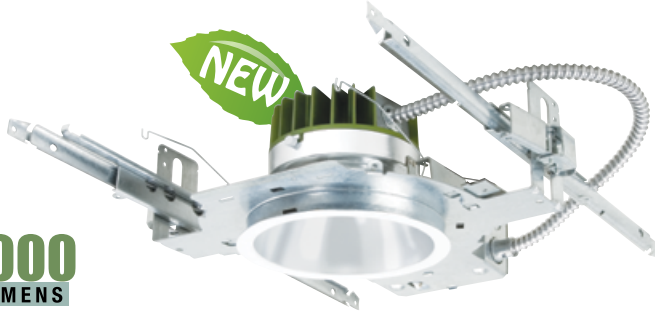


HH6-LED 6" ARCHITECTURAL HIGH LUMEN LED DOWNLIGHT



5000 LUMENS



- A** Height = 5-3/4"
- B** Trim Aperture = 6"
- C** Cut-out = 6-3/4"
- D** Trim Outside Dia. = 7-3/8"
- E** Width = 16"
- F** Length = 20"-33"

INPUT VOLT.	INPUT FREQ.	INPUT CUR.	THD	POWER FACTOR	WATTAGE	LUMENS
120/277	50/60Hz	575mA/249mA	<20%	>0.9	69W(+/-5%)	5000
120/277	50/60Hz	458mA/199mA	<20%	>0.9	55W(+/-5%)	4000
120/277	50/60Hz	342mA/148mA	<20%	>0.9	41W(+/-5%)	3000
120/277	50/60Hz	225mA/97mA	<20%	>0.9	27W(+/-5%)	2000
120/277	50/60Hz	175mA/76mA	<20%	>0.9	21W(+/-5%)	1500
120/277	50/60Hz	142mA/61mA	<20%	>0.9	17W(+/-5%)	1200
120/277	50/60Hz	100mA/43mA	<20%	>0.9	12W(+/-5%)	900

DESCRIPTION - 6" LED dedicated Architectural New Construction Downlight with integral LED heat management casting and driver (installed on junction box). Available in 900 lumens, 1200 lumens, 1500 lumens, 2000 lumens, 3000 lumens, 4000 lumens and 5000 lumens. ELITE's eco-friendly MAXILUME LED system is Energy Star and California Title 24 compliant and features 70% lumen maintenance at 102,000hrs of life. Our lighting adds comfort to any environment while using 50% less energy than the common CFL downlight.

FEATURES - MAXILUME LED luminaires are ideally suited for use in hospitality, health care, commercial, academic institutions, retail and other architectural applications.



OPTICS - MAXILUME LED Optilux technology combines unmatched performance with visual comfort. Spun 0.05" thick 1-step anodized reflector has been designed to gather the light scattered by the LED chip and shape it into functional beams that minimize brightness and glare, while eliminating lamp image. Reflector offers a 45-55 degree cutoff and smooth frost Solite diffuser distributes light even throughout the workplace in 3 different distribution; Wide (WD), Medium (MD) and Narrow (ND).

PERFORMANCE - Operating system delivers 900, 1200, 1500, 2000, 3000, 4000 & 5000 lumens. All MAXILUME LED luminaires are rated at 85+, 90+ and 98+ CRI, and are binned to within 2 MacAdam ellipses. Elite's highly selective LED chips produce zero ultraviolet and virtually no infrared light. All LED luminaires are rated and tested to LM-79 and LM-80 standards by an independent laboratory.

THERMAL MANAGEMENT SYSTEM - Using a proprietary coolLED Advanced Thermodynamic Design, Die-cast aluminum housing and heat management system are engineered for extremely long life and service period. Heat sink is attached to top of reflector. The LED light engine is attached to the die-cast heat sink and is easily replaceable and upgradable. Our die-cast system pulls the heat from the LED chip, allowing continued cool operation for years. Life tests have shown the MAXILUME light engine output will be maintained at 70% of initial at 102,000hrs of operation.

DIMMABLE -The MAXILUME LED system is shipped standard with a 0-10V driver which can be dimmed down to 1% of initial light output with a 0-10V dimmer when ordered with the following options (DIM10-120, DIM10-277). Fixtures can also be shipped with a Lutron Hi-lume A series driver which can be dimmed with Lutron Dimming Systems when ordered with the following options (LUTH-120, LUTH-277), Lutron® Hi-Lume A-Series (LUT2W-120) 2-Wire Forward Phase Control 1% Dimming in 120V only, or EldoLed 0-10V 1% Dimming, consult factory for other EldoLed driver and other driver options. Triac & Electronic Low Voltage dimming driver also available when ordered with the following options (DIMTR-120). All fixtures are dimmable down to 1%.

MOUNTING FRAME - Die-formed construction for maximum heat dissipation and rust protection.

Example: HH6-LED-900L-DIM10-120-MD-30K-HH6-6501-CL-WH

MOUNTING BRACKET - Constructed from 16 gauge steel and is supplied with C-channel that are adjustable up to 28". Mounting bracket maybe adjusted up to 2-3/4" vertically from inside the housing.

LED DRIVER/JUNCTION BOX - The LED driver is rated for 50 to 60Hz at 120V /277V input, produces less than 20%THD, and has a power factor between 90% and 100% and is thermally protected for additional safety. MAXILUME's LED driver is installed on the junction box cover so it may be serviced from below the ceiling. UL Listed for through-branch circuit wiring, provided with four 1/2" knockouts, one 3/4" knockout and four Romex knockouts with true pryout slots and strain clamps. Designed for straight through conduit runs.

OUR WORD - The MAXILUME LED lighting system carries a five-year carefree warranty for parts and components. (Labor not included.)

DIMMING INFORMATION

DIM10 (0-10V 1% Dimming) **LUTH** (Lutron® Hi-Lume A-Series 3-Wire or Eco System 1% Dimming up to 4000 lumens only) **LUT2W** (Lutron® Hi-Lume A-Series 2-Wire Forward Phase Control 1% Dimming in 120V only and up to 3000 lumens only) **LUTFTB** (Lutron® Hi-Lume FadeToBlack Dimming down to 1% compatible with Eco System Controls available in fixtures up to 75 Watts) **ELD010** (EldoLed 0-10V 1% Dimming up to 3000 lumens only, consult factory for the EldoLed driver options) **DIMTR** (Triac & Electronic Low Voltage Dimming)

LISTING

c-UL-us - listed for Wet Location if used with HH6-6501 Trim.
c-UL-us - listed for feed Through Wiring.
LM79 / LM80
U.S Patent No. - D685,118S
CP - City of Chicago environmental air (CCEA) marking for plenum applications.

LED Driver options:



TYPE	LUMENS/DRIVER				VOLTAGE	OPTICS	CCT	CRI	EMERGENCY	TRIM TYPE		REFLECTOR/ RING FINISH	DISC
	900L SERIES	1200L SERIES	1500L SERIES	2000L SERIES						NO DISC	WITH DISC		
HH6-LED	❑ 900L-DIM10	❑ 1200L-DIM10	❑ 1500L-DIM10	❑ 2000L-DIM10	❑ 120	❑ WD (70°-75°) ❑ MD (55°-60°) ❑ ND (35°-40°)	❑ 27K	❑ 85+	❑ EMG-LED ❑ INTG-EMG-LED Typical lumen output of the fixture is up to 1000L in emergency mode. Contact the factory for details.	❑ HH6-6501	❑ HH6-6509	❑ CL-WH	❑ BLUE
	❑ 900L-DIMTR ¹	❑ 1200L-DIMTR ¹	❑ 1500L-DIMTR ¹	❑ 2000L-DIMTR ¹	❑ 277		❑ 30K	❑ 90+		❑ HH6-6507	❑ HH6-6510	❑ CL-SCH	❑ RED
	❑ 900L-LUTH ²	❑ 1200L-LUTH ²	❑ 1500L-LUTH ²	❑ 2000L-LUTH ²	❑ 347		❑ 35K	❑ 98+ ⁴		❑ HH6-6521	❑ HH6-6511	❑ SHZ-SHZ	❑ GREEN
	❑ 900L-LUT2W ¹	❑ 1200L-LUT2W ¹	❑ 1500L-LUT2W ¹	❑ 2000L-LUT2W ¹	(DIM10 only)		❑ 40K			❑ HH6-6522	❑ HH6-6528	❑ SHZ-WH	❑ FROST
	❑ 900L-LUTFTB ²	❑ 1200L-LUTFTB ²	❑ 1500L-LUTFTB ²	❑ 2000L-LUTFTB ²		❑ 50K ³ (85+CRI only)		❑ HH6-6523			❑ W-WH	❑ AL	
	❑ 900L-ELD010-1 ²	❑ 1200L-ELD010-1 ²	❑ 1500L-ELD010-1 ²	❑ 2000L-ELD010-1 ²			❑ HH6-6525			❑ MB-WH	❑ BZ		
	❑ 900L-ELD0DAU-1 ²	❑ 1200L-ELD0DAU-1 ²	❑ 1500L-ELD0DAU-1 ²	❑ 2000L-ELD0DAU-1 ²			❑ HH6-6541			❑ WT-WH	❑ WH		
	❑ 900L-ELD0DMX-1 ²	❑ 1200L-ELD0DMX-1 ²	❑ 1500L-ELD0DMX-1 ²	❑ 2000L-ELD0DMX-1 ²			❑ HH6-6577						
		3000L SERIES	4000L SERIES	5000L SERIES						OTHER OPTIONS	OPTIONS		
	❑ 3000L-DIM10	❑ 4000L-DIM10	❑ 5000L-DIM10 (85+CRI only)					❑ CP-CHICAGO-PLENUM	❑ INTG (Reflector shipped with pre-punched hole to accept INTG-EMG-LED)				
	❑ 3000L-LUTH ²	❑ 4000L-LUTH ²											
	❑ 3000L-LUT2W ¹	❑ 4000L-LUTFTB ²											
	❑ 3000L-LUTFTB ²	❑ 4000L-ELD010-1 ²											
	❑ 3000L-ELD010-1 ²	❑ 4000L-ELD0DAU-1 ²											
	❑ 3000L-ELD0DAU-1 ²	❑ 4000L-ELD0DMX-1 ²											
	❑ 3000L-ELD0DMX-1 ²												
									TRIMLESS TRIM OPTIONS				
									❑ HH6-TL-6501				
									❑ HH6-TL-6507				
									❑ CL				
									❑ SHZ				

¹ LUT2W and DIMTR are available in 120V only ² LUTH, ELD010-1, ELD0DALI -1, and ELD0DMX-1 are available in 120V and 277V

³ 50K series are available with 85+ CRI only

⁴ 98+ CRI is available in 27K, 30K and 40K only

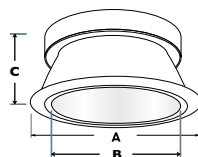


FOR
WET
LOCATION

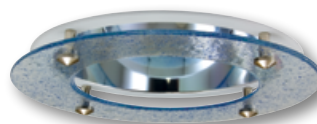
EXAMPLE: HH6-6501-CL-WH
HH6-6501 - REFLECTOR WITH DIFFUSE LENS

REFLECTOR/RING FINISH:

CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH
PATENT NO. D685,118 S



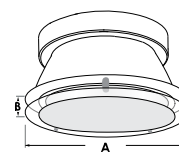
A= 7-3/8"
B= 6"
C= 5-1/4"



EXAMPLE: HH6-6521-CL-WH
HH6-6521 - STARDUST DECO RING GLASS WITH DIFFUSE LENS

REFLECTOR/RING FINISH:

CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH



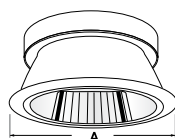
A= 7-1/4"
B= 1"



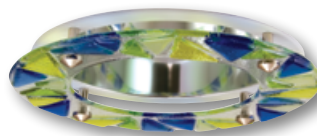
EXAMPLE: HH6-6507-CL-WH
HH6-6507 - WALL WASH REFLECTOR WITH DIFFUSE LENS

REFLECTOR/RING FINISH:

CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH



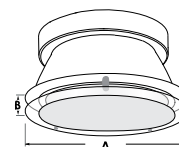
A= 7-1/4"



EXAMPLE: HH6-6523-CL-WH
HH6-6523 - PRISM DECO RING GLASS WITH DIFFUSE LENS

REFLECTOR/RING FINISH:

CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH



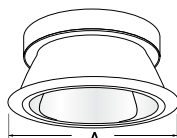
A= 7-1/4"
B= 1"



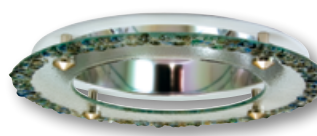
EXAMPLE: HH6-6577-CL-WH
HH6-6577 - DOUBLE WALL WASH REFLECTOR WITH DIFFUSE LENS

REFLECTOR/RING FINISH:

CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH



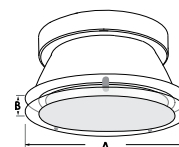
A= 7-1/4"



EXAMPLE: HH6-6522-CL-WH
HH6-6522 - EURO DECO RING GLASS WITH DIFFUSE LENS

REFLECTOR/RING FINISH:

CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH



A= 7-1/4"
B= 1"



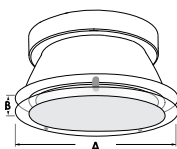
EXAMPLE: HH6-6509-CL-WH
HH6-6509 - DECO GLASS REFLECTOR WITH DIFFUSE LENS

REFLECTOR/RING FINISH:

CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH

GLASS FINISH:

BLUE, RED, GREEN, FROST



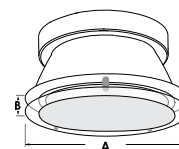
A= 7-1/4"
B= 1"



EXAMPLE: HH6-6525-CL-WH
HH6-6525 - CENTRAL ETCHED FLOAT GLASS WITH DIFFUSE LENS

REFLECTOR/RING FINISH:

CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH



A= 7-1/4"
B= 1"



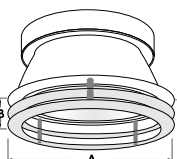
EXAMPLE: HH6-6510-CL-WH
HH6-6510 - DOUBLE RING GLASS WITH DIFFUSE LENS

REFLECTOR/RING FINISH:

CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH

GLASS FINISH:

BLUE, RED, GREEN, FROST



A= 7-1/4"
B= 1-7/8"



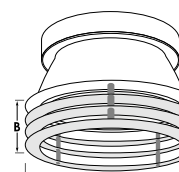
EXAMPLE: HH6-6511-CL-WH
HH6-6511 - TRIPLE RING GLASS WITH DIFFUSE LENS

REFLECTOR/RING FINISH:

CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH

GLASS FINISH:

BLUE, RED, GREEN, FROST



A= 7-1/4"
B= 2-3/4"

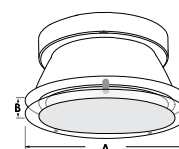


EXAMPLE: HH6-6541
HH6-6541 - REFLECTOR WITH FROSTED CYLINDRICAL GLASS
REFLECTOR FINISH:
CL-WH SHZ-SHZ



EXAMPLE: HH6-6528
HH6-6528 - REFLECTOR WITH ALUMINIUM DISC AND DIFFUSE LENS
REFLECTOR FINISH:
CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH
DISC FINISH:
AL, WH, BZ

**ALUMINIUM
DISC**



A= 7-1/4"
B= 1"

EASYFIT_{by EnOcean}

Controls Options to be Installed on the Fixture

Self-powered sensors and switches, combined with LED fixture controllers and a commissioning tool, permit easy configuration, intelligent local control, and seamless integration into building automation systems.

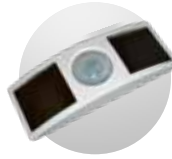


LEDRU
LED Relay Zone
Controller 0-10V



LEDDU
LED Zone
Controller 0-10V

Controls Provided by EnOcean



EOSCU
Occupancy Sensor
Ceiling Mount



EOSWU
Occupancy Sensor
Wall Mount



ELLSU
Daylight Sensor
Ceiling Mount



ESRPU/EDRPU
Wall Switches



LEVITON
Wall Switches
902 MHz category



NWC 300U
Navigan Wireless
Commissioner

PHILIPS EasySense

Controls Installed on the Fixture



SRB

Fixture will be Shipped Sensor Ready with SRB Bridge. Fixture will be Compatible with EasySense Sensor SNS200-CMP which can be Added in the Field for Remote Mounting. Fixture May Only be Controlled with Philips Field App or Wireless Switches or any 0-10V. Wall Box Dimmer.



SRB + SNS200-CMP

Fixture Will be Shipped Sensor Ready with PHILIPS SRB Bridge and EasySense SNS200-CMP Sensor which is Included to be Remote Mounted. Fixture May Only be Controlled with Philips Field App or Wireless Switches or any 0-10V. Wall Box Dimmer.

Philips EasySense sensors provide luminaire-level control with Occupancy sensing, Daylight harvesting, and Field task tuning.

Controls Provided by Philips



ZBT-S1AWH



ZBT-S2AWH

Illumra Wireless Switches



Philips Field App

enlighted

Enlighted Smart Sensors features digital motion, ambient light, and temperature sensing, the device provides autonomous fixture-level control

Controls Installed on the Fixture



CU-E3-1R

Fixture Will be Shipped Sensor Ready with Enlighted CU-E3-1R Control Unit Power Pack. Fixture will be compatible with Enlighted SU-4E-00 Sensor which can be Added in the Field Remote Mounting. Fixture May be Controlled with Enlighted Gateway, Energy Manager or Enlighted Room Controller WS-2-00



CU-E3-1R + SU-4E-00

Fixture Will be Shipped with Enlighted CU-E3-1R Control Unit Power Pack installed and SU-4E-00 Sensor provided (to be installed remotely). Fixture May be Controlled with Enlighted Gateway, Energy Manager or Enlighted Room Controller WS-2-00

Controls Provided by Enlighted



Programmable with Laptop



PoE Network Switch



Energy Manager

WS-2-00
Enlighted Room
Controller



Switch



Gateway



Controls Installed on the Fixture



FCJS-010
Individual
Fixture Control

Fixture Will be Shipped LUTRON VIVE Enabled with LUTRON FCJS-010 0-10V Control Module Installed on the Fixture. Fixtures will be compatible with Lutron FC-SENSOR Occupancy/Daylight Sensor or FC-VSENSOR Vacancy/Daylight Sensor which can be Added in the Field for Remote Mounting. Fixture May be Controlled with any Vive control systems. Fixtures must be ordered with a 0-10V. Driver.



FCJS-ECO
Individual
Fixture Control

Fixture Will be Shipped LUTRON VIVE Enabled with LUTRON FCJS-ECO EcoSystem Control Module Control Module Installed on the Fixture. Fixtures will be compatible with Lutron FC-SENSOR Occupancy/Daylight Sensor or FC-VSENSOR Vacancy/Daylight Sensor which can be Added in the Field for Remote Mounting. Fixture May be Controlled with any Vive control systems. Fixtures must be ordered with a Lutron Driver.

Controls Provided by Lutron



Lutron
App



Vive Wireless Hub



DayLight
Sensor



Ceiling Mount
Occupancy Sensor



Ceiling Mount
Occupancy/Daylight
Sensor



Wall Mount
Occupancy Sensor



Wall Mount
Switch



Pico
Remote



Fixture will be shipped with Leviton ZL027-N0W power control module installed on the fixture. Fixtures will be compatible with Leviton ZL00J-D0W sensor control module which can be added in the field for remote mounting. Fixture must be controlled with Leviton Intellect Keypad Room Controller, or Leviton Neuron App.



ZL027-N0W
Power control module



ZL00J-D0W
Sensor control module

Leviton Keypad



ZLDNK-1W



ZLDNK-2W



ZLDNK-4W



ZLDNK-8W

Intellect™ Keypad Room
Controller (Required)

Leviton App



Neuron App



WATTSTOPPER®

Controls Installed on the Fixture



LMFC-011

Fixture Will be Shipped Legrand Wattstopper DLM Enabled with LMFC-011 Module Controller Installed on the Fixture. Fixtures will be compatible with Legrand Wattstopper DLM Load Controllers, DLM Sensors, DLM Switches, DLM Remote Control, and DLM Configuration tool.

Switches



LMSW-105 **LMDM-101**

Remote



LMRH-105

Configuration tool



LMCT-100-2

Plug Load Controllers



LMPL-101



LMPL-201

Sensors



LMDC-100



LMLS-400



LMLS-500

HH6-LED-4000L-DIM10-120-WD-40K-HH6-6501-CL-SCH

TEST NO.: EL-041411

INPUT WATTS: 52.6

LUMENS: 3939

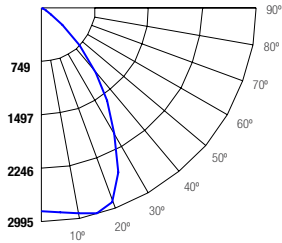
CRI: 90+

EFFICACY: 75

CCT: 4000K

SPACING CRITERIA: 1.06

Candle Power Distribution (Candelas)



Cone of Light		
4.0	179	5.6 ft
8.0	44.6	11.2 ft
12.0	19.8	16.8 ft
16.0	11.2	22.4 ft
20.0	7.14	28.1 ft
24.0	4.96	33.7 ft
Distance to Plane	Initial Footcandle at Nadir	Beam diameter

BEAM DIA. MEASURED AT 50% OF NADIR F.C.

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	1098.19	N.A.	27.90
0-30	2196.83	N.A.	55.80
0-40	3142.83	N.A.	79.80
0-60	3880.33	N.A.	98.50
0-80	3935.35	N.A.	99.90
0-90	3939.12	N.A.	100.00

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	63707	67183	57724
55	29587	25482	14435
65	14393	6182	1988
75	2156	1799	798
85	4556	3607	528

Lumens Per Zone

Zone	Lumens
0-10	276.83
10-20	821.36
20-30	1098.63
30-40	946.00
40-50	555.80
50-60	181.70
60-70	47.44
70-80	7.59
80-90	3.76

Candela Tabulation

0	0
0	2856.55
5	2877.78
15	2979.51
25	2558.87
35	1645.34
45	867.38
55	266.87
65	47.70
75	8.50
85	5.74
90	5.19

Coefficients of Utilization - Zonal Cavity Method
Effective Floor Cavity Reflectance 0.20

	RC	80%				70%				50%				30%				10%				0%
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%			
ROOM CAVITY RATIO	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
	1	113	110	107	104	110	107	105	103	103	101	100	93	90	87	90	87	85	84			
	2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84			
	3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	80	78	76			
	4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69			
	5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63			
	6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60	58			
	7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	53			
	8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51	49			
	9	70	59	52	48	68	58	52	48	57	52	47	56	51	47	55	51	47	46			
10	66	55	49	44	65	55	48	44	54	48	44	53	48	44	52	47	44	42				

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

HH6-LED-4000L-DIM10-120-MD-40K-HH6-6501-CL-SCH

TEST NO.: EL-041412

INPUT WATTS: 52.7

LUMENS: 3616

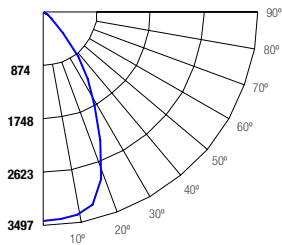
CRI: 90+

EFFICACY: 69

CCT: 4000K

SPACING CRITERIA: 0.92

Candle Power Distribution (Candelas)



Cone of Light		
4.0	215	4.6 ft
8.0	53.7	9.2 ft
12.0	23.9	13.8 ft
16.0	13.4	18.5 ft
20.0	8.59	23.1 ft
24.0	5.96	27.7 ft
Distance to Plane	Initial Footcandle at Nadir	Beam diameter

BEAM DIA. MEASURED AT 50% OF NADIR F.C.

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	1219.25	N.A.	33.70
0-30	2250.75	N.A.	62.30
0-40	3061.47	N.A.	84.70
0-60	3578.9	N.A.	99.00
0-80	3612.17	N.A.	99.90
0-90	3615.6	N.A.	100.00

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	48335	53500	37027
55	16283	16803	6958
65	8221	3697	1554
75	1879	1441	637
85	4317	3337	427

Lumens Per Zone

Zone	Lumens
0-10	327.60
10-20	891.65
20-30	1031.51
30-40	810.72
40-50	413.84
50-60	103.59
60-70	27.37
70-80	5.90
80-90	3.43

Candela Tabulation

0	0
0	3435.59
5	3469.07
15	3262.46
25	2425.99
35	1423.97
45	624.04
55	170.53
65	63.44
75	8.88
85	6.87
90	5.86

Coefficients of Utilization - Zonal Cavity Method
Effective Floor Cavity Reflectance 0.20

	RC	80%				70%				50%				30%				10%				0%
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%			
ROOM CAVITY RATIO	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
	1	113	110	107	105	111	108	106	103	104	102	100	97	96	97	97	96	94	93			
	2	107	102	97	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85			
	3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	82	80	78			
	4	95	87	81	77	94	86	81	76	94	79	75	82	78	75	80	77	74	72			
	5	90	81	75	70	88	80	74	70	89	83	78	77	72	69	75	71	68	67			
	6	85	76	69	65	84	75	69	64	73	68	64	72	67	64	70	66	63	62			
	7	81	71	64	60	79	70	64	60	69	63	59	67	63	59	66	62	59	57			
	8	76	66	60	55	75	66	60	55	65	59	55	63	58	55	62	58	55	53			
	9	72	62	56	52	71	62	56	52	61	55	51	60	55	51	59	54	51	50			
10	69	59	52	48	68	58	52	48	57	52	48	56	51	48	56	51	48	46				

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

HH6-LED-4000L-DIM10-120-ND-40K-HH6-6501-CL-SCH

TEST NO.: EL-041410

INPUT WATTS: 52.7

LUMENS: 3873

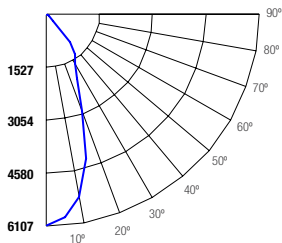
CRI: 90+

EFFICACY: 73

CCT: 4000K

SPACING CRITERIA: 0.66

Candle Power Distribution (Candelas)



Cone of Light		
4.0	381	2.7 ft
8.0	95.2	5.5 ft
12.0	42.3	8.2 ft
16.0	23.8	11 ft
20.0	15.2	13.7 ft
24.0	10.6	16.5 ft
Distance to Plane	Initial Footcandle at Nadir	Beam diameter

BEAM DIA. MEASURED AT 50% OF NADIR F.C.

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	1676.34	N.A.	43.30
0-30	2643.37	N.A.	68.30
0-40	3442.9	N.A.	88.90
0-60	3844.88	N.A.	99.30
0-80	3869.01	N.A.	99.90
0-90	3872.86	N.A.	100.00

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	35858	54091	18754
55	5118	9770	3896
65	3135	3095	2009
75	1909	1367	618
85	5090	3789	421

Lumens Per Zone

Zone	Lumens
0-10	546.46
10-20	1129.89
20-30	967.02
30-40	799.53
40-50	343.21
50-60	58.78
60-70	18.56
70-80	5.58
80-90	3.85

Candela Tabulation

0	0
0	6093.25
5	6107.24
15	4391.80
25	2345.11
35	1252.26
45	462.96
55	53.60
65	24.19
75	9.02
85	8.10
90	7.63

Coefficients of Utilization - Zonal Cavity Method
Effective Floor Cavity Reflectance 0.20

RC	80%				70%				50%				30%				10%				0%	
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HH6-LED-1200L-MD-40K-CL-WH

INPUT WATTS: 16.8

LUMENS: 1279

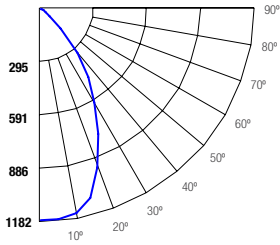
CRI: 90+

EFFICACY: 76

CCT: 4000K

SPACING CRITERIA: 0.96

Candle Power Distribution (Candelas)



Cone of Light		
4.0	73.8	4.8 ft
8.0	18.4	9.6 ft
12.0	8.20	14.4 ft
16.0	4.61	19.2 ft
20.0	2.95	24.4 ft
24.0	2.05	28.8 ft
Distance to Plane	Initial Footcandle at Nadir	Beam diameter

BEAM DIA. MEASURED AT 50% OF NADIR F.C.

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	408.78	32.20	32.00
0-30	766.56	60.30	60.00
0-40	1063.45	83.70	83.20
0-60	1263.4	99.40	98.80
0-80	1277.81	100.50	99.90
0-90	1278.61	100.60	100.00

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	187	290	285
55	49	91	101
65	8	24	50
75	4	7	8
85	2	10	12

Lumens Per Zone

Zone	Lumens
0-10	111.08
10-20	297.70
20-30	357.78
30-40	296.89
40-50	156.13
50-60	43.82
60-70	12.16
70-80	2.25
80-90	0.81

Candela Tabulation

0	0
0	1180.13
5	1181.99
15	1095.32
25	769.90
35	466.60
45	154.41
55	32.93
65	3.91
75	1.30
85	0.25
90	0.06

Coefficients of Utilization - Zonal Cavity Method
Effective Floor Cavity Reflectance 0.20

RC	80%				70%				50%				30%				10%				0%			
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%
ROOM CAVITY RATIO	0	120	120	120	120	117	117	117	117	112	112	112	107	107	107	103	103	103	103	103	103	103	103	103
1	114	111	108	106	111	108	106	104	104	104	102	101	101	99	98	97	96	96	96	96	96	96	96	93
2	107	102	98	94	105	100	96	93	97	94	91	91	94	91	89	87	85	82	80	78	77	77	77	72
3	101	94	89	84	99	93	88	84	90	86	82	82	88	84	81	85	82	80	78	72	72	72	72	66
4	95	87	81	76	94	86	80	76	84	79	75	75	82	78	74	80	76	73	72	66	66	66	66	61
5	90	81	74	70	88	80	74	69	78	73	69	69	76	72	68	75	71	68	66	61	61	61	61	56
6	85	75	69	64	83	74	68	64	73	67	63	63	71	67	63	70	66	62	61	56	56	56	56	51
7	80	70	64	59	79	69	63	59	68	63	58	58	67	62	58	66	61	58	56	51	51	51	51	45
8	76	66	59	55	75	65	59	55	64	58	54	54	63	58	54	62	57	54	52	47	47	47	47	41
9	72	62	55	51	71	61	55	51	60	54	51	51	59	54	50	58	54	50	49	44	44	44	44	38
10	68	58	52	47	67	57	51	47	57	51	47	47	56	51	47	55	50	47	45	40	40	40	40	33

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

HH6-LED-900L-MD-40K-CL-WH

INPUT WATTS: 11.9

LUMENS: 943

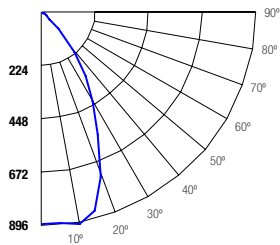
CRI: 90+

EFFICACY: 79

CCT: 4000K

SPACING CRITERIA: 0.94

Candle Power Distribution (Candelas)



Cone of Light		
4.0	55.2	4.5 ft
8.0	13.8	9.1 ft
12.0	6.13	13.6 ft
16.0	3.45	18.2 ft
20.0	2.21	22.7 ft
24.0	1.53	27.3 ft
Distance to Plane	Initial Footcandle at Nadir	Beam diameter

BEAM DIA. MEASURED AT 50% OF NADIR F.C.

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	316.78	33.80	33.60
0-30	584.89	62.40	62.00
0-40	797.34	85.10	84.60
0-60	934.58	99.70	99.10
0-80	942.48	100.60	100.00
0-90	942.88	100.60	100.00

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	116	184	190
55	28	52	59
65	2	11	28
75	1	3	4
85	1	5	6

Lumens Per Zone

Zone	Lumens
0-10	84.45
10-20	232.32
20-30	268.11
30-40	212.45
40-50	108.93
50-60	28.32
60-70	6.93
70-80	0.96
80-90	0.40

Candela Tabulation

0	0
0	883.24
5	883.79
15	856.23
25	560.59
35	323.04
45	95.51
55	18.73
65	1.17
75	0.38
85	0.07
90	0.03

Coefficients of Utilization - Zonal Cavity Method
Effective Floor Cavity Reflectance 0.20

RC	80%				70%				50%				30%				10%				0%			
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%
ROOM CAVITY RATIO	0	120	120	120	120	117	117	117	117	112	112	112	107	107	107	103	103	103	103	103	103	103	103	103
1	114	111	108	106	111	108	106	104	104	105	103	101	101	99	98	97	96	96	96	96	96	96	96	93
2	108	102	98	94	105	101	97	93	97	94	91	91	94	92	89	92	89	87	87	87	87	87	87	86
3	102	95	89	85	100	93	88	84	91	86	83	83	88	85	82	86	83	80	79	79	79	79	79	72
4	96	88	82	77	94	87	81	77	84	80	76	76	82	78	75	80	77	74	73	73	73	73	73	67
5	91	82	75	71	89	81	75	70	79	74	70	70	77	73	69	75	72	68	67	67	67	67	67	61
6	86	76	70	65	84	75	69	65	74	68	64	64	72	67	64	71	67	63	62	62	62	62	62	56
7	81	71	65	60	80	70	64	60	69	64	60	60	68	63	59	67	62	59	57	57	57	57	57	51
8	77	67	60	56	75	66	60	56	65	59	55	55	64	59	55	63	58	55	53	53	53	53	53	47
9	73	62	56	52	72	62	56	52	61	55	52	52	60	55	51	59	55	51	50	50	50	50	50	44
10	69	59	53	48	68	58	52	48	58	52	48	48	57	52	48	56	51	48	47	47	47	47	47	41

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

HH6-LED-900L-MD-40K-SHZ-SHZ

INPUT WATTS: 11.9

LUMENS: 881

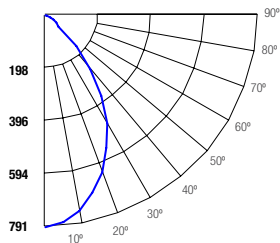
CRI: 90+

EFFICACY: 74

CCT: 4000K

SPACING CRITERIA: 0.98

Candle Power Distribution (Candelas)



Cone of Light		
4.0	49.5	5.1 ft
8.0	12.4	10.2 ft
12.0	5.50	15.3 ft
16.0	3.09	20.4 ft
20.0	1.98	25.5 ft
24.0	1.37	30.6 ft
Distance to Plane	Initial Footcandle at Nadir	Beam diameter

BEAM DIA. MEASURED AT 50% OF NADIR F.C.

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	260.68	29.70	29.60
0-30	498.86	56.90	56.60
0-40	713.00	81.30	80.90
0-60	866.74	98.90	98.30
0-80	880.60	100.50	99.90
0-90	881.43	100.60	100.00

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	200	231	156
55	74	77	44
65	38	22	12
75	9	9	6
85	12	11	4

Lumens Per Zone

Zone	Lumens
0-10	72.63
10-20	188.06
20-30	238.18
30-40	214.13
40-50	117.30
50-60	36.44
60-70	11.29
70-80	2.57
80-90	0.84

Candela Tabulation

0	0
0	791.42
5	777.25
15	684.27
25	546.05
35	366.35
45	165.62
55	49.80
65	18.88
75	2.68
85	1.20
90	0.45

Coefficients of Utilization - Zonal Cavity Method
Effective Floor Cavity Reflectance 0.20

	RC	80%				70%				50%				30%				10%				0%
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%			
ROOM CAPACITY RATIO	0	120	120	120	120	117	117	117	117	112	112	112	107	107	107	103	103	103	101			
	1	113	110	108	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93			
	2	107	101	97	93	105	100	96	92	96	93	90	93	90	88	90	88	86	84			
	3	101	93	88	83	99	92	87	83	89	85	81	87	83	80	84	81	79	77			
	4	95	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72	70			
	5	89	80	73	68	87	79	73	68	77	71	67	75	70	67	73	69	66	64			
	6	84	74	67	62	82	73	67	62	72	66	62	69	63	61	68	64	59	61			
	7	79	69	62	57	78	68	62	57	67	61	57	65	60	57	64	60	56	55			
	8	75	64	58	53	73	64	57	53	62	57	53	61	56	52	60	56	52	51			
	9	71	60	54	49	70	60	53	49	59	53	49	58	52	49	57	52	48	47			
10	67	56	50	46	66	56	50	46	55	49	45	54	49	45	53	49	45	44				