



HH8-8501
Flanged Downlight

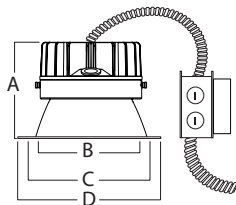
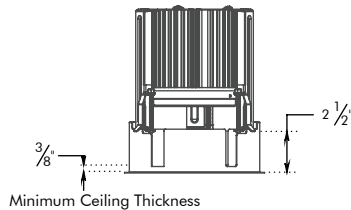
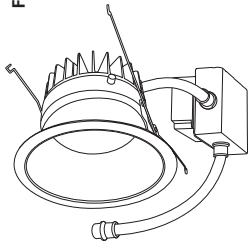


HH8-8507
Flanged Wall Wash

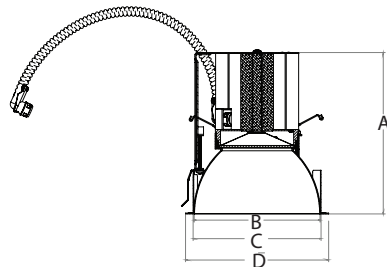


HH8-8577
Flanged Double Wall Wash

REFLECTOR/
FLANGE COLORS



A: Height = 7-1/8"
B: Trim Aperture = 7-3/4"
C: Cut-Out = 8-1/8"
D: Trim Outside Dia = 9-1/8"



A: Height = 10-1/4"
B: Trim Aperture = 7-3/4"
C: Cut-Out = 8-1/8"
D: Trim Outside Dia = 9-1/8"

6000 ONLY

NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
6000	6696	81 W
5000	5496	66 W
4000	4793	40 W
3000	3584	35 W
2000	2430	21 W
1500	1809	15 W
1200	1320	12 W
900	1113	9 W
NOMINAL LUMENS (HP)	DELIVERED LUMENS (HP)	WATTAGE (HP)
1200	1468	12W
2000	2051	18W
3000	3150	28W

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

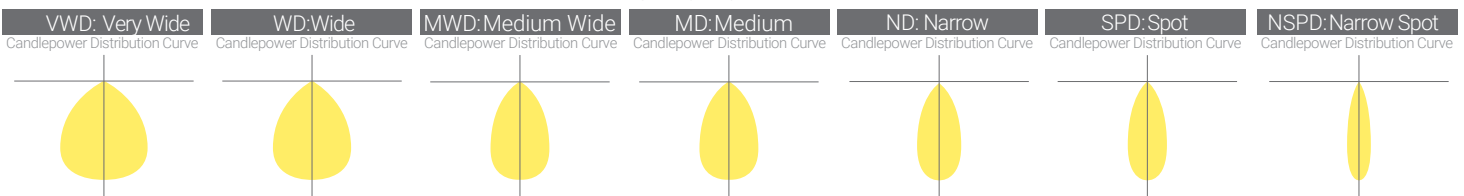
The reflector has a 45° visual cutoff, and is shipped standard with a Solite lens in a smooth frosted finish. Spun from 0.05" thick aluminum, with a 1-step anodized finish, and available in different colors or custom RAL finishes. Reflector flange options include self-flanged and white painted flange.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

LUMENS	900, 1200, 1500, 2000, 3000, 4000, 5000* 6000, (Custom lumen packages available)
CCT & DYNAMIC PLATFORMS	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, WD, MWD, MD, ND, SPD, NSPD
TRIM OPTIONS	Downlight, Wall Wash, Double Wall Wash, Wet Location
REFLECTOR COLORS	CL (Semi-Specular Chrome), SHZ (Low Iridescent Satin Haze), WT (Wheat), W (White), MB (Black), BZ (Bronze) WAM(White Anti Microbial), Custom RAL
FLANGE COLORS	Self-Flanged WH (White), SCH (Semi-Specular Chrome), SHZ (Low Iridescent Satin Haze), BK (Black)
DIMMING	0-10V Flicker Free 1% Dimming Standard (DIM10), LUTH, LUTFTB, ELDO10.1-LIN, ELDODMX.1, ELDODALJ.1, DIMTR, BLE, POE, ELDO10-LOG, XSR, DIM10-AUX, DIM10-0-Off
EMERGENCY	10W - Up to 1000L Output (Bodine BSL310) 20W - Up to 2000L Output (Bodine BSL20) GTD-UL924
LIFETIME	L70>60,000-hour reported lifetime L70>250,000-hour calculated lifetime
PHOTOMETRIC TESTS	In Accordance with IES LM79-08, LM80 and TM-30, TM-21

* 5000 Lumens is not ENERGY STAR certified

* Only Available on 85+ CRI

Based on 4000K, 90+CRI with semi-specular chrome reflector. Actual wattage may vary +/-5%



Reference IES files for additional distribution curve information.





THERMAL MANAGEMENT SYSTEM

Passive cooling Diecast Aluminum Heat Sink, LED light engine and driver are replaceable, upgradeable, and can be accessed from below the ceiling. The consistency in the quality of light is delivered with precision performance by the use of a unique locking mechanism that aligns the reflector with the light engine.

MOUNTING FRAME & BRACKETS

Designed for easy installation into an existing incandescent or CFL downlight mounting frame, converting the luminaire into an energy efficient LED downlight. Flex is designed to attach into the existing junction box, with additional brackets available for up to a 2-1/2" ceiling thickness.

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, and up to 6000 lumens only.

LUTH - Lutron LDE1 Hi-Lume 1% Eco System LED driver with Soft-on, Fade to Black dimming technology.

LUTFB - Lutron PEQOE Hi-Lume Premier 1% Eco System LED Driver with Soft-on, Fade to Black dimming technology. Available on all luminaires up to 1500 lumens.

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. (Click here for more details)

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. (Click here for more details)

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. (Click here for more details)

OPTICAL

Modular Optics Available with 15°, 24°, 30°, 36°, 52°, 60° and 70° field interchangeable optics design with 45° cutoff to source.

Top-down flash characteristic for superior glare control. The optics attached directly the light engine to the Trim for complete optical alignment and sufficient efficacy.

WARRANTY

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

LISTINGS

c-UL-us - Listed for Wet Location if used with HH8-8501 Trim.

c-UL-us - Listed for Feed Through Wiring.

U.S Patent No. - D685,118S

CP-City of Chicago environmental air (CCEA) marking for plenum applications.

Energy Star and California Title 24 compliant

Optional Black color trim is not ENERGYSTAR certified and won't meet the requirement.

BAA- Buy American Act Compliant government procurement requirements under FAR, DFARS and DOT regulations.

Example: HHJ8-LED-4000L-DIM10-MVOLT-MD-40K-90-HH8-8501-CL-WH

SERIES	LUMENS	DRIVER	VOLTAGE	CCT	EMERGENCY	TRIM TYPE	REFLECTOR/FLANGE COLORS
HHJ8-LED	<input type="checkbox"/> 900L	<input type="checkbox"/> DIM10	<input type="checkbox"/> 120	<input type="checkbox"/> 27K	<input type="checkbox"/> EMG-LED-10W	<input type="checkbox"/> HH8-8501 Flanged Downlight	<input type="checkbox"/> CL-WH
	<input type="checkbox"/> 1200L	<input type="checkbox"/> DIMTR ^{3 5}	<input type="checkbox"/> 277	<input type="checkbox"/> 30K	<input type="checkbox"/> EMG-LED-20W	<input type="checkbox"/> HH8-8507 Flanged Wall Wash	<input type="checkbox"/> CL-SCH
	<input type="checkbox"/> 1500L	<input type="checkbox"/> LUTH ³	<input type="checkbox"/> MVOLT	<input type="checkbox"/> 35K	<input type="checkbox"/> GTD-UL924	<input type="checkbox"/> HH8-8577 Flanged Double Wall Wash	<input type="checkbox"/> SHZ-WH
	<input type="checkbox"/> 2000L	<input type="checkbox"/> LUTFTB ⁴	<input type="checkbox"/> 347 (DIM10 only)	<input type="checkbox"/> 40K	Typical lumen output of the luminaire is up to 1000L with EMG-LED-10W option & 2000L with EMG-LED-20W option in emergency mode. Contact the factory for details. <i>Remote mounted installation</i>		<input type="checkbox"/> SHZ-SHZ
	<input type="checkbox"/> 3000L	<input type="checkbox"/> ELDO10-.1-LIN	<input type="checkbox"/> 50K ³				<input type="checkbox"/> WT-WH
	<input type="checkbox"/> 4000L	<input type="checkbox"/> ELDDALI-.1				<input type="checkbox"/> WH-WH	<input type="checkbox"/> MB-WH*
	<input type="checkbox"/> 5000L ⁵	<input type="checkbox"/> ELDODMX-.1					<input type="checkbox"/> CL-BK
	<input type="checkbox"/> 6000L	<input type="checkbox"/> BLE					<input type="checkbox"/> MB-BK*
		<input type="checkbox"/> POE					<input type="checkbox"/> RAL
		<input type="checkbox"/> DIM10-0-OFF				<input type="checkbox"/> CP (Chicago Plenum)	<input type="checkbox"/> WAM White Anti Microbial
	<input type="checkbox"/> ELDO10-LOG				<input type="checkbox"/> BAA		
	<input type="checkbox"/> XSR				<input type="checkbox"/> Stopped Ceiling Adaptor		
	<input type="checkbox"/> DIM10-AUX				<input type="checkbox"/> HP (High Performance) ⁶		
					<input type="checkbox"/> Remote LED Driver Mounting		
			OPTICS	CRI	OPTIONS		
			<input type="checkbox"/> VWD 70°	<input type="checkbox"/> 90+			
			<input type="checkbox"/> WD 60°	<input type="checkbox"/> 98+ ⁴			
			<input type="checkbox"/> MWD 52°	<input type="checkbox"/> Xicato 95 ⁷			
			<input type="checkbox"/> MD 36°				
			<input type="checkbox"/> ND 30°				
			<input type="checkbox"/> SPD 24°				
			<input type="checkbox"/> NSPD 15°				

¹ DIMTR and LUTH Available for luminaires up to 4000L

² LUTFB Available for luminaires up to 1500L

³ 50K series are available with 85+ CRI only ⁴ 98+ CRI is available in 27K, 30K and 40K only

⁵ 5000 Lumens is not energy Star certified

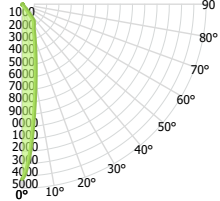
-Reference last page for Control Options

⁶ 3000K, 3500K and 4000K based on 90 CRI

HHJ8-LED-4000L-DIM10-MVOLT-NSPD-40K-90-HH8-8501-CL-WH

INPUT WATTS: **41.1** LUMENS: **4623** EFFICACY: **112** BEAM ANGLE: **19** SPACING CRITERIA: **0.29 x 0.29**

CANDELA DISTRIBUTION



CANDELA TABLE

	0°	90°
0°	14248	14248
10°	6340	6305
20°	3009	3005
30°	1923	1912
40°	348	404
50°	63	65
60°	0	0
70°	0	0
80°	0	0
90°	0	0

LUMINANCE (cd/sq.m)

	0.00°	90.00°
0.00°	305111	305111
45.00°	3804	3776
55.00°	817	895
65.00°	268	263
75.00°	146	145
85.00°	52	34

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	954
10° - 20°	1336
20° - 30°	1148
30° - 40°	978
40° - 50°	165
50° - 60°	31
60° - 70°	0
70° - 80°	0
80° - 90°	0

ZONAL LUMEN SUMMARY

ZONE	UMENS	% LUMINAIRE
0° - 20°	2291	50%
0° - 30°	3438	74%
0° - 40°	4416	98%
0° - 60°	4612	100%
0° - 80°	4620	100%
0° - 90°	4621	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	395.8 fc	2.0 ft	2.1 ft
8.0 ft	222.6 fc	2.7 ft	2.7 ft
10.0 ft	142.5 fc	3.4 ft	3.4 ft
12.0 ft	98.9 fc	4.1 ft	4.1 ft
14.0 ft	72.7 fc	4.7 ft	4.8 ft
16.0 ft	55.7 fc	5.4 ft	5.5 ft
18.0 ft	44.0 fc	6.1 ft	6.2 ft
20.0 ft	35.6 fc	6.8 ft	6.9 ft

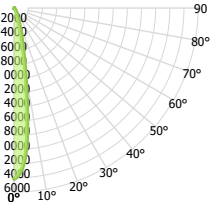
INDOOR COEFFICIENTS OF UTILIZATION

pf	pc	20%																0%				
		80%				70%				50%				30%					10%			
pw	70%	50%	30%	10%	70%	50%	30%	10%	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	106	106	106	102	102	102	100	100	100	100	0%
1	114	111	109	107	111	109	107	105	105	104	102	101	100	99	98	97	96	94	94	92	90	89
2	109	104	101	98	107	103	99	97	99	97	94	97	94	92	94	92	90	89	89	88	87	84
3	104	98	94	90	102	97	93	89	94	91	88	92	89	86	90	87	85	84	84	83	80	79
4	99	93	87	84	98	91	87	83	89	85	82	87	84	81	86	83	80	79	79	78	76	74
5	95	87	82	78	93	86	82	78	85	80	77	83	79	76	82	78	76	74	74	73	72	70
6	91	83	77	73	89	82	77	73	81	76	73	79	75	72	78	74	72	70	70	69	67	67
7	87	79	73	69	86	78	73	69	77	72	69	76	71	68	75	71	68	67	67	66	64	63
8	83	75	69	66	82	74	69	65	73	69	65	72	68	65	71	68	65	63	63	62	61	60
9	80	71	66	62	79	71	66	62	70	65	62	69	65	62	68	64	62	60	60	59	58	58
10	77	68	63	59	76	68	63	59	67	62	59	66	62	59	66	62	59	58	58	57	56	55

HHJ8-LED-4000L-DIM10-MVOLT-SPD-40K-90-HH8-8501-CL-WH

INPUT WATTS: **41.0** LUMENS: **4184** EFFICACY: **102** BEAM ANGLE: **25** SPACING CRITERIA: **0.28**

CANDELA DISTRIBUTION



CANDELA TABLE

	0°	90°
0°	24139	24139
10°	9150	9564
20°	1889	1962
30°	638	664
40°	148	155
50°	24	27
60°	0	0
70°	0	0
80°	0	0
90°	0	0

LUMINANCE (cd/sq.m)

	0.00°	90.00°
0.00°	516915	516915
45.00°	2241	2201
55.00°	145	152
65.00°	52	52
75.00°	31	31
85.00°	17	15

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	1746
10° - 20°	1484
20° - 30°	592
30° - 40°	275
40° - 50°	74
50° - 60°	10
60° - 70°	0
70° - 80°	0
80° - 90°	0

ZONAL LUMEN SUMMARY

ZONE	UMENS	% LUMINAIRE
0° - 20°	3230	77%
0° - 30°	3822	91%
0° - 40°	4097	98%
0° - 60°	4180	100%
0° - 80°	4182	100%
0° - 90°	4182	100%

CONE OF LIGHT

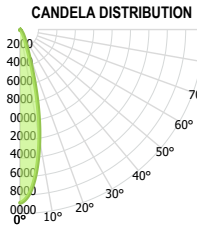
MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	670.5 fc	2.1 ft	2.1 ft
8.0 ft	377.2 fc	2.8 ft	2.8 ft
10.0 ft	241.4 fc	3.4 ft	3.4 ft
12.0 ft	167.6 fc	4.1 ft	4.1 ft
14.0 ft	123.2 fc	4.8 ft	4.8 ft
16.0 ft	94.3 fc	5.5 ft	5.5 ft
18.0 ft	74.5 fc	6.2 ft	6.2 ft
20.0 ft	60.3 fc	6.9 ft	6.9 ft

INDOOR COEFFICIENTS OF UTILIZATION

pf	pc	20%																0%				
		80%				70%				50%				30%					10%			
pw	70%	50%	30%	10%	70%	50%	30%	10%	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	106	106	106	102	102	102	100	100	100	100	0%
1	115	113	111	109	113	111	109	107	107	105	104	103	102	101	100	99	98	97	96	95	93	93
2	111	108	105	102	109	106	103	101	103	101	99	100	98	97	97	96	95	93	92	90	89	87
3	108	103	99	97	106	102	98	96	99	97	94	97	95	93	95	93	92	90	89	87	86	85
4	104	99	95	92	103	98	94	92	96	93	91	94	92	90	92	90	89	87	86	85	84	83
5	101	95	91	88	100	95	91	88	93	90	87	92	89	87	90	88	86	85	84	83	82	81
6	98	92	88	85	97	92	88	85	90	87	84	89	86	84	88	85	83	82	81	80	79	78
7	96	89	85	82	95	89	85	82	88	84	82	87	84	81	86	83	81	80	79	78	77	76
8	93	87	83	80	92	86	82	80	85	82	79	84	81	79	84	81	79	78	77	76	75	74
9	91	84	80	78	90	84	80	77	83	80	77	82	79	77	82	79	77	76	75	74	73	72
10	89	82	78	76	88	82	78	75	81	78	75	80	77	75	80	77	75	74	73	72	71	70

HHJ8-LED-4000L-DIM10-MVOLT-ND-40K-90-HH8-8501-CL-WH

INPUT WATTS: **40.9** LUMENS: **4793** EFFICACY: **117** BEAM ANGLE: **30** SPACING CRITERIA: **0.42**



	0°	90°
0°	18830	18830
10°	12053	12706
20°	2468	2830
30°	746	735
40°	175	170
50°	28	30
60°	0	0
70°	0	0
80°	0	0
90°	0	0

	0.00°	90.00°
0.00°	403217	403217
45.00°	2805	2737
55.00°	166	172
65.00°	63	63
75.00°	37	38
85.00°	20	17

ZONE	LUMENS
0° - 10°	1530
10° - 20°	2101
20° - 30°	739
30° - 40°	317
40° - 50°	90
50° - 60°	11
60° - 70°	0
70° - 80°	0
80° - 90°	0

ZONE	UMENS	% LUMINAIRE
0° - 20°	3631	76%
0° - 30°	4370	91%
0° - 40°	4687	98%
0° - 60°	4788	100%
0° - 80°	4790	100%
0° - 90°	4790	100%

CONE OF LIGHT

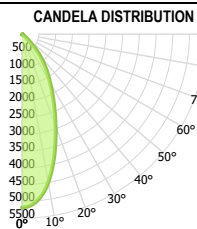
MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	523.0 fc	2.9 ft	2.9 ft
8.0 ft	294.2 fc	3.9 ft	3.8 ft
10.0 ft	188.3 fc	4.9 ft	4.8 ft
12.0 ft	130.8 fc	5.8 ft	5.8 ft
14.0 ft	96.1 fc	6.8 ft	6.7 ft
16.0 ft	73.6 fc	7.8 ft	7.7 ft
18.0 ft	58.1 fc	8.8 ft	8.7 ft
20.0 ft	47.1 fc	9.7 ft	9.6 ft

INDOOR COEFFICIENTS OF UTILIZATION

pf	pc	20%																0%
		80%				70%				50%				30%				
pw	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
1	115	113	111	109	112	110	109	107	106	105	104	103	102	100	98	99	98	96
2	111	107	104	101	109	105	103	100	102	100	98	98	96	97	95	94	92	
3	107	102	98	95	105	101	97	95	98	95	93	96	94	92	94	92	90	
4	103	98	94	91	102	97	93	90	95	92	89	93	90	88	91	89	87	
5	100	94	90	86	99	93	89	86	91	88	85	90	87	85	89	86	84	
6	97	90	86	83	96	90	86	83	88	85	82	87	84	82	86	83	81	
7	94	87	83	80	93	87	83	80	86	82	79	84	81	79	83	81	78	
8	91	84	80	77	90	84	80	77	83	79	77	82	79	76	81	78	75	
9	89	82	77	74	88	81	77	74	80	77	74	80	76	74	79	76	73	
10	86	79	75	72	85	79	75	72	78	74	72	77	74	72	77	74	71	

HHJ8-LED-4000L-DIM10-MVOLT-VWD-40K-90-HH8-8501-CL-WH

INPUT WATTS: **41.0** LUMENS: **3990** EFFICACY: **97** BEAM ANGLE: **70** SPACING CRITERIA: **0.69 x 0.69**



	0°	90°
0°	5182	5182
10°	4498	4477
20°	2922	2958
30°	1670	1707
40°	807	850
50°	126	140
60°	0	0
70°	0	0
80°	0	0
90°	0	0

	0.00°	90.00°
0.00°	110978	110978
45.00°	11801	13149
55.00°	740	1065
65.00°	261	262
75.00°	139	141
85.00°	54	44

ZONE	LUMENS
0° - 10°	470
10° - 20°	1090
20° - 30°	1120
30° - 40°	851
40° - 50°	398
50° - 60°	50
60° - 70°	0
70° - 80°	0
80° - 90°	0

ZONE	UMENS	% LUMINAIRE
0° - 20°	1560	39%
0° - 30°	2681	67%
0° - 40°	3532	89%
0° - 60°	3979	100%
0° - 80°	3988	100%
0° - 90°	3988	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	144.0 fc	5.3 ft	5.3 ft
8.0 ft	81.0 fc	7.1 ft	7.1 ft
10.0 ft	51.8 fc	8.8 ft	8.8 ft
12.0 ft	36.0 fc	10.6 ft	10.6 ft
14.0 ft	26.4 fc	12.4 ft	12.3 ft
16.0 ft	20.2 fc	14.1 ft	14.1 ft
18.0 ft	16.0 fc	15.9 ft	15.9 ft
20.0 ft	13.0 fc	17.7 ft	17.6 ft

INDOOR COEFFICIENTS OF UTILIZATION

pf	pc	20%																0%
		80%				70%				50%				30%				
pw	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
1	113	111	108	106	111	108	106	104	103	101	101	99	98	97	96	95	93	
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	
4	97	89	84	79	95	88	83	79	86	82	78	84	80	77	82	79	76	
5	92	83	78	73	90	83	77	73	81	76	72	79	75	72	77	74	71	
6	87	78	72	68	86	77	72	68	76	71	67	75	70	67	73	69	66	
7	83	73	67	63	82	73	67	63	72	66	63	70	66	62	69	65	62	
8	79	69	63	59	78	69	63	59	68	62	59	66	62	58	66	61	58	
9	75	65	59	55	74	65	59	55	64	59	55	63	58	55	62	58	55	
10	72	62	56	52	71	61	56	52	61	55	52	60	55	52	59	55	52	

HHJ8-LED-4000L-DIM10-MVOLT-WD-40K-90-HH8-8501-CL-WH

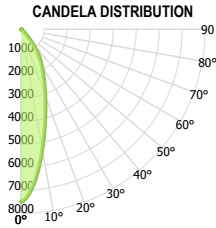
INPUT WATTS: **40.9**

LUMENS: **4241**

EFFICACY: **104**

BEAM ANGLE: **55**

SPACING CRITERIA: **0.52**



CANDELA TABLE

	0°	90°
0°	7501	7501
10°	5307	5235
20°	3071	3055
30°	1786	1785
40°	702	725
50°	100	102
60°	8	8
70°	0	0
80°	0	0
90°	0	0

LUMINANCE (cd/sq.m)

	0.00°	90.00°
0.00°	160631	160631
45.00°	8282	9142
55.00°	763	936
65.00°	261	262
75.00°	139	143
85.00°	49	44

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	620
10° - 20°	1211
20° - 30°	1168
30° - 40°	878
40° - 50°	313
50° - 60°	41
60° - 70°	0
70° - 80°	0
80° - 90°	0

ZONAL LUMEN SUMMARY

ZONE	UMENS	% LUMINAIRE
0° - 20°	1831	43%
0° - 30°	2999	71%
0° - 40°	3877	91%
0° - 60°	4230	100%
0° - 80°	4238	100%
0° - 90°	4239	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	208.4 fc	3.8 ft	3.8 ft
8.0 ft	117.2 fc	5.0 ft	5.1 ft
10.0 ft	75.0 fc	6.3 ft	6.3 ft
12.0 ft	52.1 fc	7.5 ft	7.6 ft
14.0 ft	38.3 fc	8.8 ft	8.8 ft
16.0 ft	29.3 fc	10.1 ft	10.1 ft
18.0 ft	23.2 fc	11.3 ft	11.4 ft
20.0 ft	18.8 fc	12.6 ft	12.6 ft

INDOOR COEFFICIENTS OF UTILIZATION

pw	20%																0%	
	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%		10%
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	111	109	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94
2	108	103	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	85	83	82
4	98	91	85	81	96	89	84	81	87	83	80	85	82	79	83	80	78	76
5	93	85	79	75	92	84	79	75	82	78	74	81	77	74	79	76	73	71
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67
7	84	75	70	66	83	75	69	65	74	69	65	72	68	65	71	67	64	63
8	81	71	66	62	79	71	65	61	70	65	61	69	64	61	68	64	61	59
9	77	68	62	58	76	67	62	58	66	61	58	65	61	58	65	60	57	56
10	74	64	59	55	73	64	58	55	63	58	55	62	58	54	62	57	54	53

- 1- Luminaire will be shipped with Powerpacks pre-installed, ready to be integrated to designated control 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 control systems

BRAND							
CONTROL UNIT	<input type="checkbox"/> NXFM-1R2D-0-UNV NX Fixture Module, Offset, 1 Relay, 2 0-10V Dimming Channels, 120-347VAC, Blue	<input type="checkbox"/> FCJS-010 Lutron Vive 0-10V Individual Pow Pak (Luminaire is shipped Vive Enabled) ¹⁴ <input type="checkbox"/> FCJS-ECO Lutron Vive Eco-system Pow Pak (Luminaire is shipped Vive Enabled) <input type="checkbox"/> A-WN-D01-RF-WH Athena wireless node (RF only) (White) <input type="checkbox"/> A-WN-D01-OCC-WH Athena wireless node with sensor (White)	<input type="checkbox"/> CU-4E-FMH Fixture Mount Control Unit ¹⁵	<input type="checkbox"/> ZL027 -NOW Intellect Power Control Module ¹⁶ <input type="checkbox"/> ZL027 -NOW Intellect Power Control Module ¹⁶	<input type="checkbox"/> EN-WCM2-ZB-DR Wireless Control Module ¹⁷ <input type="checkbox"/> EN-ALC-ZB-BK-DR Wireless Area Lighting Control Module ¹⁷ <input type="checkbox"/> ZBHA-CLM-DIM-ENC Connected Lighting Module DIM ¹⁷	<input type="checkbox"/> SBR-BS Xtanium SR Bridge ¹⁸	<input type="checkbox"/> LMFC-011 ON/OFF/0-10V dimming fixture controller ¹⁹
INTEGRAT SENSOR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
*WIRELESS OCCUPANCY SENSOR	<input type="checkbox"/> NXSM2-SMI NX Slide Mount Indoor Sensor Module	N/A	N/A	N/A	N/A	N/A	<input type="checkbox"/> LMDC-100 Dual technology PIR Ceiling Mount Occupancy Sensor ³
*WIRELESS DAYLIGHT SENSOR	<input type="checkbox"/> LUXSTATLS Luxstat Light Sensor for Luxstat Control Modules, 3 to 6000 FC	N/A	N/A	N/A	N/A	N/A	<input type="checkbox"/> LMLS-400 Single zone switching and dimming digital photosensor ³
*WIRELESS OCCUPANCY & DAYLIGHT SENSOR	<input type="checkbox"/> NXSM2T Indoor Ceiling Mount Sensor - OMNI	N/A	<input type="checkbox"/> SU-5E-IoT IoT Node Micro Sensor ³ <input type="checkbox"/> SU-5E-CL Connected Lighting Micro Sensor ³ <input type="checkbox"/> SU-5E-IL Independent Lighting / Enlighted One Micro Sensor ³ <input type="checkbox"/> SU-5S-H-(IoT/CL/IL) Surface Mount Sensor ³ (Must be specified with CU-4E-FMH Control Unit)	<input type="checkbox"/> ZL00J -TOW Intellect Intelligent Fixture Control System ³ (Must be specified with ZL027 -NOW Control Unit)	<input type="checkbox"/> EN-CLM-PIR-DD-ZB SensiLUM™ Wireless Integrated Sensor <input type="checkbox"/> 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)	<input type="checkbox"/> SNS200-CMP SNS200 for grouping ³	N/A
ACCESORIES	N/A	N/A	<input type="checkbox"/> TMC-SU-5E Tile Mount Carrier <input type="checkbox"/> CBL-5E-CU4-30N 30 inch Sensor Cable for CU-4 and IoT Ready™ drivers <input type="checkbox"/> CBL-5E-CU4-7F 7 foot Sensor Cable for CU-4 and IoT Ready™ drivers	N/A	N/A	N/A	N/A
NOTES	N/A	4- Luminaire will be compatible with Lutron LRF2-OCR2B-P-WH Ceiling mount 360° occupancy/vacancy sensor & LRF2-DCRB-WH Ceiling-mount daylight sensor. Sensors must be ordered through Lutron.	5- Luminaire will be compatible with ENLIGHTED SU-5E-IoT, SU-5E-CL, SU-5E-IL, SU-5S-H, Sensors.	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 compatible with DLM Room control system LMPB-100. DLM control system must be ordered through Legrand.