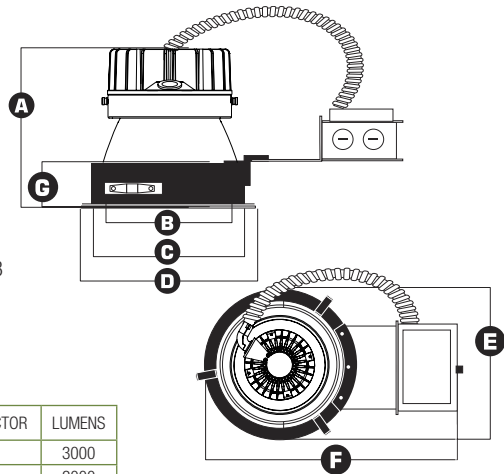


# HHR8-LED 8" ARCHITECTURAL HIGH LUMEN LED REMODEL DOWNLIGHT



**3000 LUMENS**

- A** Height = 7-1/8"
- B** Trim Aperture = 8"
- C** Cut-out = 8-1/2"
- D** Trim Outside Dia. = 9-1/8"
- E** Width = 8-3/4"
- F** Length = 14-1/4"
- G** Flange = 2-1/4"



INPUT VOLT.	INPUT FREQ.	INPUT CUR.	INPUT POWER	THD	POWER FACTOR	LUMENS
120/277	50/60Hz	333mA/144mA	40W(+/-5%)	<20%	>0.9	3000
120/277	50/60Hz	266mA/115mA	32W(+/-5%)	<20%	>0.9	2000
120/277	50/60Hz	200mA/86mA	24W(+/-5%)	<20%	>0.9	1500
120/277	50/60Hz	150mA/65mA	16W(+/-5%)	<20%	>0.9	900

**DESCRIPTION** - 8" LED dedicated Architectural Remodel Downlight with integral LED heat management casting and driver (installed on junction box). Designed for remodel applications in existing plaster or mechanical ceilings. Available in 900 lumens (16W), 1500 lumens (24W), 2000 lumens (32W) & 3000 lumens (40W). Lighting is smooth and comfortable while using 25% less energy than the common CFL downlight. Plus the eco-friendly Maxilume LED system features 70% lumen maintenance at 50,000 hours life, with Energy Star and California Title-24 (compliances pending).

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



**OPTICS** - MAXILUME LED Optilux technology combines unmatched performance with visual comfort. Spun 0.05" thick 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 55 degree cutoff and smooth frost acrylic diffuser distributes light even throughout the workplace.

**PERFORMANCE** - Operating system delivers 900 lumens (16W), 1500 lumens (24W), 2000 lumens (32W) & 3000 lumens (40W). All MAXILUME LED luminaires are rated at 85+ CRI. Our stringent chip specifications require only those Chips that produce no ultra violet and virtually no infrared. 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. Life tests have shown the MAXILUME light engine output will be maintained at 70% of initial at 50,000 hours of operation.

**DIMMABLE** - The MAXILUME LED system is fully dimmable down to 10% of initial light output with a 0-10 Volt dimmer when ordered with the following options (DIM10-120, DIM10-277). Fixtures can 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). Consult Factory for details.

**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.

**MOUNTING FRAME** - Die-formed all construction for maximum heat dissipation and rust protection. For fast and easy installation in existing plaster or mechanical ceiling thickness from 1/2" to 1-3/4". Four remodel clips are easily retractable for fixture removal if necessary.

**OUR WORD** - The MAXILUME LED lighting system is warranted for 3 years. As a system, we stand behind the entire MAXILUME products from housing to bar hangers.

**LISTING**  
 c-UL-us / c-ETL-us - listed for Damp location.  
 c-UL-us / c-ETL-us - listed for feed Through Wiring.  
 LM79 / LM80

**DIMMING INFORMATION**  
 DIM10 (0-10V Dimming)  
 LUTH (Lutron® Hi-lume® Dimming)

PATENT NO. D685,118 S

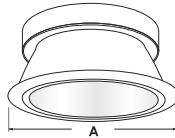
Example: HHR8-LED-900L-DIM10-120-FL-30K-HH8-8501-CL-WH

TYPE	16 WATT	24 WATT	32 WATT	40 WATT	OPTICS	COLOR	EMERGENCY	TRIM TYPE	REFLECTOR/ RING FINISH	DISC		
HHR8-LED	<input type="checkbox"/> 900L-LUTH-120 <input type="checkbox"/> 900L-LUTH-277 <input type="checkbox"/> 900L-DIM10-120 <input type="checkbox"/> 900L-DIM10-277	<input type="checkbox"/> 1500L-LUTH-120 <input type="checkbox"/> 1500L-LUTH-277 <input type="checkbox"/> 1500L-DIM10-120 <input type="checkbox"/> 1500L-DIM10-277	<input type="checkbox"/> 2000L-LUTH-120 <input type="checkbox"/> 2000L-LUTH-277 <input type="checkbox"/> 2000L-DIM10-120 <input type="checkbox"/> 2000L-DIM10-277	<input type="checkbox"/> 3000L-LUTH-120 <input type="checkbox"/> 3000L-LUTH-277 <input type="checkbox"/> 3000L-DIM10-120 <input type="checkbox"/> 3000L-DIM10-277	<input type="checkbox"/> FL	<input type="checkbox"/> 30K <input type="checkbox"/> 35K <input type="checkbox"/> 40K	<input type="checkbox"/> EMG-LED	<input type="checkbox"/> HH8-8501 <input type="checkbox"/> HH8-8507 <input type="checkbox"/> HH8-8509 <input type="checkbox"/> HH8-8510 <input type="checkbox"/> HH8-8511 <input type="checkbox"/> HH8-8521	<input type="checkbox"/> HH8-8522 <input type="checkbox"/> HH8-8523 <input type="checkbox"/> HH8-8525 <input type="checkbox"/> HH8-8528 <input type="checkbox"/> HH8-8577	<input type="checkbox"/> CL-WH <input type="checkbox"/> CL-SCH <input type="checkbox"/> SHZ-WH	<input type="checkbox"/> W-WH <input type="checkbox"/> MB-WH <input type="checkbox"/> WT-WH	<input type="checkbox"/> BLUE <input type="checkbox"/> RED <input type="checkbox"/> GREEN <input type="checkbox"/> FROST <input type="checkbox"/> AL <input type="checkbox"/> BZ <input type="checkbox"/> WH

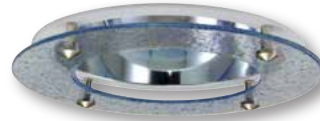


**FOR WET LOCATION**

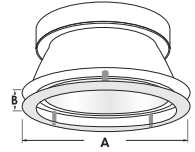
**EXAMPLE:** HH8-8501-CL-WH  
**HH8-8501** - REFLECTOR WITH DIFFUSE LENS  
**REFLECTOR/ RING FINISH:**  
 CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH  
 PATENT NO. D685,118 S



A = 9-1/4"



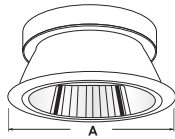
**EXAMPLE:** HH8-8521-CL-WH  
**HH8-8521** - STARDUST DECO RING GLASS WITH DIFFUSE LENS  
**REFLECTOR/ RING FINISH:**  
 CL-WH CL-SCH WT-WH SHZ-WH WH-WH SHZ-SHZ MB-WH



A = 9-1/4"  
 B = 1-1/4"



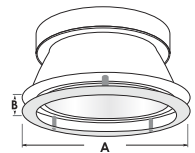
**EXAMPLE:** HH8-8507-CL-WH  
**HH8-8507** - WALL WASH REFLECTOR WITH DIFFUSE LENS  
**REFLECTOR/ RING FINISH:**  
 CL-WH CL-SCH WT-WH SHZ-WH WH-WH SHZ-SHZ MB-WH



A = 9-1/4"



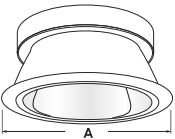
**EXAMPLE:** HH8-8523-CL-WH  
**HH8-8523** - PRISM DECO RING GLASS WITH DIFFUSE LENS  
**REFLECTOR/ RING FINISH:**  
 CL-WH CL-SCH WT-WH SHZ-WH WH-WH SHZ-SHZ MB-WH



A = 9-1/4"  
 B = 1-1/4"



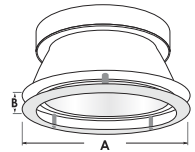
**EXAMPLE:** HH8-8577-CL-WH  
**HH8-8577** - DOUBLE WALL WASH REFLECTOR WITH DIFFUSE LENS  
**REFLECTOR/ RING FINISH:**  
 CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH



A = 9-1/4"



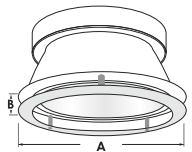
**EXAMPLE:** HH8-8522-CL-WH  
**HH8-8522** - EURO DECO RING GLASS WITH DIFFUSE LENS  
**REFLECTOR/ RING FINISH:**  
 CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH



A = 9-1/4"  
 B = 1-1/4"



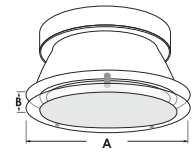
**EXAMPLE:** HH8-8509-CL-WH  
**HH8-8509** - DECO GLASS REFLECTOR WITH DIFFUSE LENS  
**REFLECTOR/ RING FINISH:**  
 CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH  
**GLASS FINISH:**  
 BLUE, RED, GREEN, FROST



A = 9-1/4"  
 B = 1-1/4"



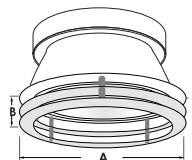
**EXAMPLE:** HH8-8525-CL-WH  
**HH8-8525** - CENTRAL ETCHED FLOAT GLASS WITH DIFFUSE LENS  
**REFLECTOR/ RING FINISH:**  
 CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH



A = 9-1/4"  
 B = 1"



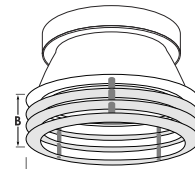
**EXAMPLE:** HH8-8510-CL-WH  
**HH8-8510** - DOUBLE RING GLASS WITH DIFFUSE LENS  
**REFLECTOR/ RING FINISH:**  
 CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH  
**GLASS FINISH:**  
 BLUE, RED, GREEN, FROST



A = 9-1/4"  
 B = 1-1/2"



**EXAMPLE:** HH8-8511-CL-WH  
**HH8-8511** - 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 = 9-1/4"  
 B = 2-1/4"



**ALUMINIUM DISC**

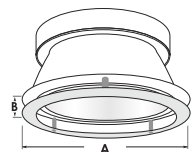
**EXAMPLE:** HH8-8528-CL-WH-AL  
**HH8-8528** - REFLECTOR WITH ALUMINIUM DISC AND DIFFUSE LENS  
**REFLECTOR FINISH:**  
 CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH  
**DISC FINISH:**  
 AL, WH, BZ



HH8-8528-CL-W-WH



HH8-8528-CL-WH-BZ



A = 9-1/4"  
 B = 1-1/4"

## HH8-LED 16W

TOTAL LUMINAIRE EFFICACY = 57.5 LPW

HH8-LED-900L-120-DIM10-SP-40K-HH8-8501-CL-WH

TEST NO.: ELT-HH8-0017

INPUT WATTS: 16

LUMENS: 920

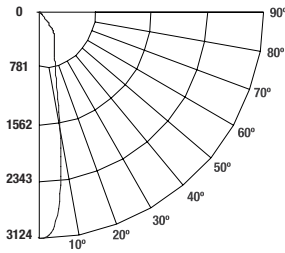
CRI: 85+

EFFICACY: 57.5 LPW

CCT: 4000K

SPACING CRITERIA: 0.4

Candle Power Distribution Curve (Candela)



Candela Distribution

Candela	0
0	3117
5	2299
15	1038
25	500
35	257
45	64
55	10
65	2
75	1
85	0
90	0

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30	691.6	76.8%	75.3%
0-40	866.7	96.3%	94.4%
0-60	915.9	101.8%	99.7%
0-90	918.5	102.1%	100%

Lumens Per Zone

Zone	Lumens
0-10	202.1
10-20	259.2
20-30	230.3
30-40	175.1
40-50	40.5
50-60	8.8
60-70	1.6
70-80	0.8
80-90	0.2

Luminance (Average Candela/M<sup>2</sup>)

Angle In Degrees	Average 0°	Average 45°	Average 90°
0-10	202.1		
45°	4944	3667	2634
55°	989	837	747
65°	222	195	195
75°	207	162	127
85°	0	141	40

Cone of Light		
4.0'	194.8	1.4'
8.0'	48.7	2.8'
12.0'	21.6	4.3'
16.0'	12.2	5.7'
20.0'	7.0	7.1'
Distance to Plane	Initial Footcandles at Nadir	Beam Diameter

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

### Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

RCC	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	122	122	122	122	119	119	119	119	113	113	113	109	109	109	104	104	104	102
1	116	114	111	109	114	112	109	108	107	106	104	104	102	101	100	99	98	96
2	111	107	103	100	109	105	102	99	102	99	96	99	96	94	96	94	92	91
3	106	100	96	92	104	99	95	91	96	93	90	94	91	88	92	89	87	86
4	102	95	90	86	100	93	89	85	91	87	84	89	86	83	88	85	82	81
5	97	89	84	80	96	89	84	80	87	82	79	85	81	78	84	80	78	76
6	93	85	79	75	92	84	79	75	83	78	75	81	77	74	80	76	74	72
7	89	81	75	71	88	80	75	71	79	74	71	78	73	70	76	73	70	69
8	85	77	71	67	84	76	71	67	75	70	67	74	70	67	73	69	67	65
9	82	73	68	64	81	73	68	64	72	67	64	71	67	64	70	66	63	62
10	79	70	65	61	78	70	65	61	69	64	61	68	64	61	67	63	61	59

RC - Ceiling Cavity Reflectance RW - Wall Reflectance

\*Note: Lumen output and input wattage vary depending on driver and reflector type. Listed values may vary +/-10%.

## HH8-LED 24W

TOTAL LUMINAIRE EFFICACY = 51.1 LPW

HH8-LED-1200L-120-DIM10-SP-40K-HH8-8501-CL-WH

TEST NO.: ELT-HH8-0018

INPUT WATTS: 24

LUMENS: 1226

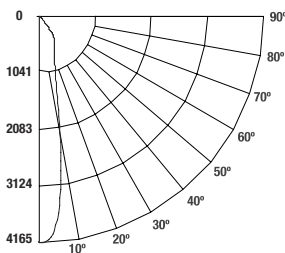
CRI: 85+

EFFICACY: 51.1 LPW

CCT: 4000K

SPACING CRITERIA: 0.4

Candle Power Distribution Curve (Candela)



Candela Distribution

Candela	0
0	4156
5	3065
15	1383
25	667
35	343
45	85
55	14
65	2
75	1
85	0
90	0

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30	922.1	76.8%	75.3%
0-40	1,155.6	96.3%	94.4%
0-60	1,221.3	101.8%	99.7%
0-90	1,224.7	102.1%	100%

Lumens Per Zone

Zone	Lumens
0-10	269.4
10-20	345.6
20-30	307.1
30-40	233.5
40-50	54.0
50-60	11.7
60-70	2.1
70-80	1.0
80-90	0.3

Luminance (Average Candela/M<sup>2</sup>)

Angle In Degrees	Average 0°	Average 45°	Average 90°
0-10	269.4		
45°	6592	4890	3512
55°	1319	1117	995
65°	296	260	260
75°	277	215	170
85°	0	189	53

Cone of Light		
4.0'	259.8	1.4'
8.0'	64.9	2.8'
12.0'	28.9	4.3'
16.0'	16.2	5.7'
20.0'	10.4	7.1'
Distance to Plane	Initial Footcandles at Nadir	Beam Diameter

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

### Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

RCC	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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	111	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	95
2	109	105	101	98	107	103	99	97	100	97	95	97	94	93	94	92	91	89
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84
4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79
5	95	88	82	78	94	87	82	78	85	81	77	83	80	77	82	79	76	75
6	91	83	78	74	90	82	77	74	81	76	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	69	67
8	84	75	70	66	83	75	70	66	74	69	66	73	68	65	72	68	65	64
9	80	72	66	63	79	71	66	63	70	66	63	70	65	62	69	65	62	61
10	77	69	63	60	76	68	63	60	67	63	60	67	63	60	66	62	59	58

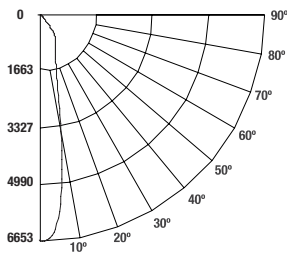
RC - Ceiling Cavity Reflectance RW - Wall Reflectance

\*Note: Lumen output and input wattage vary depending on driver and reflector type. Listed values may vary +/-10%.

**HH8-LED 32W**  
**TOTAL LUMINAIRE EFFICACY = 61.3 LPW**

**HH8-LED-2000L-120-DIM10-SP-40K-HH8-8501-CL-WH** TEST NO.: **ELT-HH8-0019**  
 INPUT WATTS: **32** LUMENS: **1961** CRI: **85+** EFFICACY: **61.3 LPW** CCT: **4000K** SPACING CRITERIA: **0.4**

**Candle Power Distribution Curve (Candela)**



**Candela Distribution**

Beam Angle	Candela
0	6639
5	4897
15	2210
25	1065
35	548
45	136
55	22
65	4
75	2
85	0
90	0

**Zonal Lumen Summary**

Zone	Lumens	%Lamp	%Fixture
0-30	1,473.0	75.3%	75.3%
0-40	1,845.9	94.3%	94.3%
0-60	1,950.8	99.7%	99.7%
0-90	1,956.3	100%	100%

**Lumens Per Zone**

Zone	Lumens
0-10	430.4
10-20	552.1
20-30	490.5
30-40	373.0
40-50	86.2
50-60	18.7
60-70	3.4
70-80	1.6
80-90	0.5

**Luminance (Average Candela/M<sup>2</sup>)**

Angle In Degrees	Average 0°	Average 45°	Average 90°
45°	10530	7811	5610
55°	2106	1783	1590
65°	473	416	415
75°	442	344	271
85°	0	302	84

Distance to Plane	Initial Footcandles at Nadir	Beam Diameter
4.0'	414.9	1.4'
8.0'	103.7	2.8'
12.0'	46.1	4.3'
16.0'	25.9	5.7'
20.0'	16.6	7.1'

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

\*Note: Lumen output and input wattage vary depending on driver and reflector type. Listed values may vary +/-10%.

**Coefficients of Utilization - Zonal Cavity Method**

Effective Floor Cavity Reflectance 0.20

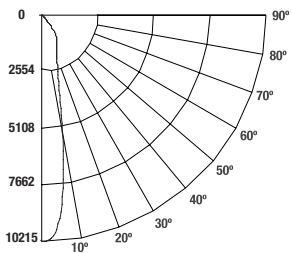
RCC	80%				70%				50%				30%				10%				0%			
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%					
0	119	119	119	119	116	116	116	116	111	111	111	111	106	106	106	102	102	102	100					
1	114	111	109	107	112	109	107	105	105	105	104	102	102	100	99	98	97	96	95					
2	109	105	101	98	107	103	99	97	100	97	95	97	94	93	94	92	91	89						
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84						
4	100	93	88	84	98	92	87	83	89	86	82	88	84	81	86	83	81	79						
5	95	88	82	78	94	87	82	78	85	81	77	83	80	77	82	79	76	75						
6	91	83	78	74	90	82	77	74	81	76	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	70	66	74	69	66	73	68	65	72	68	65	64						
9	80	72	66	63	79	71	66	63	70	66	63	70	65	62	69	65	62	61						
10	77	69	63	60	76	68	63	60	67	63	60	67	63	60	66	62	59	58						

RC - Ceiling Cavity Reflectance RW - Wall Reflectance

**HH8-LED 40W**  
**TOTAL LUMINAIRE EFFICACY = 75.2 LPW**

**HH8-LED-3000L-120-DIM10-SP-40K-HH8-8501-CL-WH** TEST NO.: **ELT-HH8-0020**  
 INPUT WATTS: **40** LUMENS: **3010** CRI: **85+** EFFICACY: **75.2 LPW** CCT: **4000K** SPACING CRITERIA: **0.4**

**Candle Power Distribution Curve (Candela)**



**Candela Distribution**

Beam Angle	Candela
0	10193
5	7518
15	3393
25	1635
35	842
45	209
55	34
65	6
75	3
85	0
90	0

**Zonal Lumen Summary**

Zone	Lumens	%Lamp	%Fixture
0-30	2,261.6	75.3%	75.3%
0-40	2,834.3	94.4%	94.4%
0-60	2,995.3	99.7%	99.7%
0-90	3,003.7	100%	100%

**Lumens Per Zone**

Zone	Lumens
0-10	660.8
10-20	847.7
20-30	753.2
30-40	527.6
40-50	132.4
50-60	28.7
60-70	5.3
70-80	2.5
80-90	0.7

**Luminance (Average Candela/M<sup>2</sup>)**

Angle In Degrees	Average 0°	Average 45°	Average 90°
45°	16168	11993	8613
55°	3234	2738	2441
65°	726	639	638
75°	678	529	416
85°	0	463	129

Distance to Plane	Initial Footcandles at Nadir	Beam Diameter
4.0'	637.1	1.4'
8.0'	159.3	2.8'
12.0'	70.8	4.3'
16.0'	39.8	5.7'
20.0'	25.5	7.1'

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

\*Note: Lumen output and input wattage vary depending on driver and reflector type. Listed values may vary +/-10%.

**Coefficients of Utilization - Zonal Cavity Method**

Effective Floor Cavity Reflectance 0.20

RCC	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%					
0	119	119	119	119	116	116	116	116	111	111	111	111	106	106	106	102	102	102	100					
1	114	111	109	107	112	109	107	105	105	105	104	102	102	100	99	98	97	96	95					
2	109	105	101	98	107	103	99	97	100	97	95	97	94	93	94	92	91	89						
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84						
4	100	93	88	84	98	92	87	83	89	86	82	88	84	81	86	83	81	79						
5	95	88	82	78	94	87	82	78	85	81	77	83	80	77	82	79	76	75						
6	91	83	78	74	90	82	77	74	81	76	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	70	66	74	69	66	73	68	65	72	68	65	64						
9	80	72	66	63	79	71	66	63	70	66	63	70	65	62	69	65	62	61						
10	77	69	63	60	76	68	63	60	67	63	60	67	63	60	66	62	59	58						

RC - Ceiling Cavity Reflectance RW - Wall Reflectance