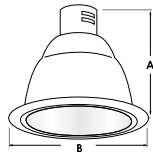




# 5" LED OPTICS



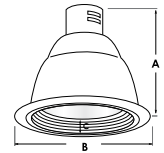
**EXAMPLE:** LED-5101-CL-WH  
**LED-5101** - REFLECTOR  
**REFLECTOR/RING FINISH:**  
 CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH



A= 7"  
 B= 6-3/8"



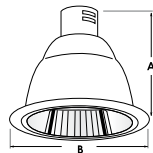
**EXAMPLE:** LED-5102-CL-WH  
**LED-5102** - BAFFLE W/ REFLECTOR  
**BAFFLE/ RING FINISH:**  
 W-CL-WH P-CL-WH



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



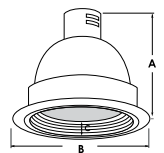
**EXAMPLE:** LED-5107-CL-WH  
**LED-5107** - WALL WASH REFLECTOR  
**REFLECTOR/RING FINISH:**  
 CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH



A= 7"  
 B= 6-3/8"



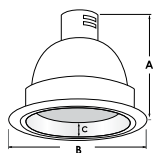
**EXAMPLE:** LED-5112-CL-WH  
**LED-5112** - BAFFLE W/ FROSTED GLASS LENS  
**BAFFLE/ RING FINISH:**  
 W-WH P-WH



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



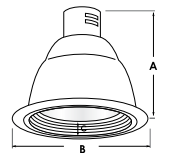
**EXAMPLE:** LED-5114-CL-WH  
**LED-5114** - REFLECTOR W/ FROSTED GLASS LENS  
**REFLECTOR/RING FINISH:**  
 CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH



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



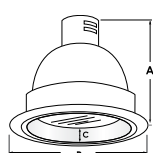
**EXAMPLE:** LED-5113-CL-WH  
**LED-5113** - BAFFLE W/ TEMPERED CLEAR GLASS  
**BAFFLE/ RING FINISH:**  
 W-WH P-WH



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



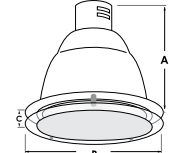
**EXAMPLE:** LED-5115-CL-WH  
**LED-5115** - REFLECTOR W/ TEMPERED CLEAR GLASS  
**REFLECTOR/RING FINISH:**  
 CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH



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



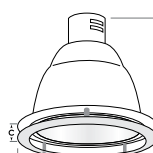
**EXAMPLE:** LED-5125-CL-WH  
**LED-5125** - CENTRAL ETCHED FLOAT GLASS  
**REFLECTOR/RING FINISH:**  
 CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH



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



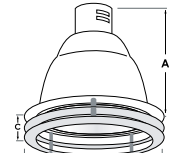
**EXAMPLE:** LED-5109-CL-WH  
**LED-5109** - DECO GLASS REFLECTOR  
**REFLECTOR/RING FINISH:**  
 CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH  
**GLASS FINISH:**  
 BLUE, RED, GREEN, FROST



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



**EXAMPLE:** LED-5110-CL-WH  
**LED-5110** - DOUBLE RING GLASS REFLECTOR/RING FINISH:  
 CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH  
**GLASS FINISH:**  
 BLUE, RED, GREEN, FROST

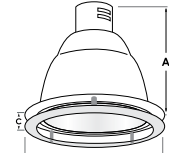


A= 7"  
 B= 6-3/8"  
 C= 1-7/8"



ALUMINIUM DISC

**EXAMPLE:** LED-5128-CL-WH-AL  
**LED-5128** - DECO GLASS REFLECTOR WITH ALUMINIUM DISC  
**REFLECTOR FINISH:**  
 CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH  
**DISC FINISH:**  
 AL, WH, BZ



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

LED  
 5"

5 INCH ARCHITECTURAL LED OPTICS

# 5" LED DOWNLIGHT PHOTOMETRY

## HVJ5-LED-1500L-DIM10-120-MD-40K-LED-5101-SHZ-SHZ

TEST NO.: EL-091398

INPUT WATTS: 35

LUMENS: 1301

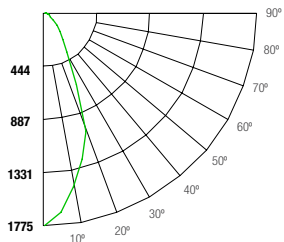
CRI: 85+

EFFICACY: 37

CCT: 4000K

SPACING CRITERIA: 0.76

### Candle Power Distribution (Candelas)



Cone of Light		
4.0	110.9	3.4'
8.0	27.7	6.9'
12.0	12.3	13.8'
16.0	6.9	13.8'
20.0	4.4	17.2'
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	515.29	N.A.	39.60
0-30	849.25	N.A.	65.30
0-40	1038.39	N.A.	79.80
0-60	1235.38	N.A.	95.00
0-80	1294.55	N.A.	99.50
0-90	1301.07	N.A.	100.00

### Luminance (Average candela/M<sup>2</sup>)

Angle in Degrees	Average		
	0°	45°	90°
45	21140	18340	17146
55	12179	11018	9107
65	8843	7185	6459
75	6294	4935	4390
85	7589	5617	2252

### Lumens Per Zone

Zone	Lumens
0-10	154.88
10-20	360.41
20-30	333.96
30-40	189.14
40-50	126.22
50-60	70.77
60-70	40.06
70-80	19.11
80-90	6.52

### Candela Tabulation

0	1774.96
5	1685.84
15	1320.59
25	771.74
35	339.14
45	183.52
55	85.76
65	45.88
75	20.00
85	8.12
90	2.18

### Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

ROOM CAVITY RATIO	RC	80%				70%				50%				30%				10%				0%			
		RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	30%	10%	50%	30%	10%	10%	30%	10%	0%			
0	119	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100			
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92	92	92	92	92			
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84	84	84	84	84			
3	100	93	88	83	98	92	87	82	89	85	81	87	83	80	84	81	79	77	77	77	77	77			
4	95	86	80	76	93	85	80	75	83	78	74	81	77	73	79	76	73	71	71	71	71				
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	74	70	67	66	66	66	66				
6	85	75	69	64	83	75	69	64	73	68	64	72	67	63	70	66	63	61	61	61	61				
7	81	71	64	60	79	70	64	60	69	63	59	68	63	59	66	62	59	57	57	57	57				
8	77	67	60	56	75	66	60	56	65	60	56	64	59	55	63	58	55	54	54	54	54				
9	73	63	57	53	72	63	57	53	62	56	52	61	56	52	60	55	52	51	51	51	51				
10	70	60	54	50	69	59	53	50	58	53	49	58	53	49	57	52	49	48	48	48	48				

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

## HVJ5-LED-1500L-DIM10-120-MD-40K-LED-5101-CL-WH

TEST NO.: EL-101339

INPUT WATTS: 35

LUMENS: 1692

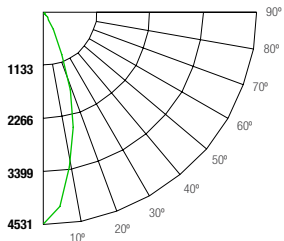
CRI: 85+

EFFICACY: 48

CCT: 4000K

SPACING CRITERIA: 0.56

### Candle Power Distribution (Candelas)



Cone of Light		
4.0	283.2	2.3'
8.0	70.8	4.7'
12.0	31.5	7.0'
16.0	17.7	9.3'
20.0	11.3	11.7'
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	1034.06	N.A.	61.10
0-30	1471.03	N.A.	86.90
0-40	1613.13	N.A.	95.30
0-60	1683.92	N.A.	99.50
0-80	1690.11	N.A.	99.90
0-90	1691.94	N.A.	100.00

### Luminance (Average candela/M<sup>2</sup>)

Angle in Degrees	Average		
	0°	45°	90°
45	12165	8054	6827
55	2620	2548	1004
65	1569	730	544
75	1013	774	384
85	3439	2869	280

### Lumens Per Zone

Zone	Lumens
0-10	363.55
10-20	670.50
20-30	436.98
30-40	142.10
40-50	57.18
50-60	13.61
60-70	4.24
70-80	1.95
80-90	1.83

### Candela Tabulation

0	4531.35
5	4065.97
15	2445.03
25	991.14
35	269.61
45	105.61
55	18.45
65	8.14
75	3.22
85	3.68
90	3.91

### Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

ROOM CAVITY RATIO	RC	80%				70%				50%				30%				10%				0%			
		RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	30%	10%	50%	30%	10%	10%	30%	10%	0%			
0	119	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100			
1	114	112	110	108	112	110	108	106	106	106	104	103	102	101	100	99	98	97	95	95	95	95			
2	110	105	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90	90	90	90	90			
3	105	100	95	92	103	98	95	91	96	93	90	94	91	89	91	89	87	86	86	86	86	86			
4	101	95	90	86	99	94	89	86	92	88	85	90	86	84	88	85	83	82	82	82	82	82			
5	97	90	85	82	96	89	85	81	87	84	80	86	82	80	84	81	79	78	78	78	78	78			
6	93	86	81	77	92	85	80	77	84	80	77	82	79	76	81	78	76	74	74	74	74	74			
7	90	82	77	74	89	81	77	73	80	76	73	79	75	73	78	75	72	71	71	71	71	71			
8	87	79	74	70	85	78	73	70	77	73	70	76	72	70	75	72	69	68	68	68	68	68			
9	83	75	71	67	83	75	70	67	74	70	67	73	69	67	73	69	66	65	65	65	65	65			
10	81	73	68	64	80	72	67	64	71	67	64	71	67	64	70	66	64	63	63	63	63	63			

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

LED 5"

5 INCH ARCHITECTURAL LED DOWNLIGHT PHOTOMETRY