

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P731188

Luminaire Tested: **HBLED-LD5-60SE-W-FLI-UNV-L750**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731188
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26703)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-60SE-W-FLI-UNV-L750
Description: 60000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56627.0 lumens
Efficiency: N/A
Efficacy: 154.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

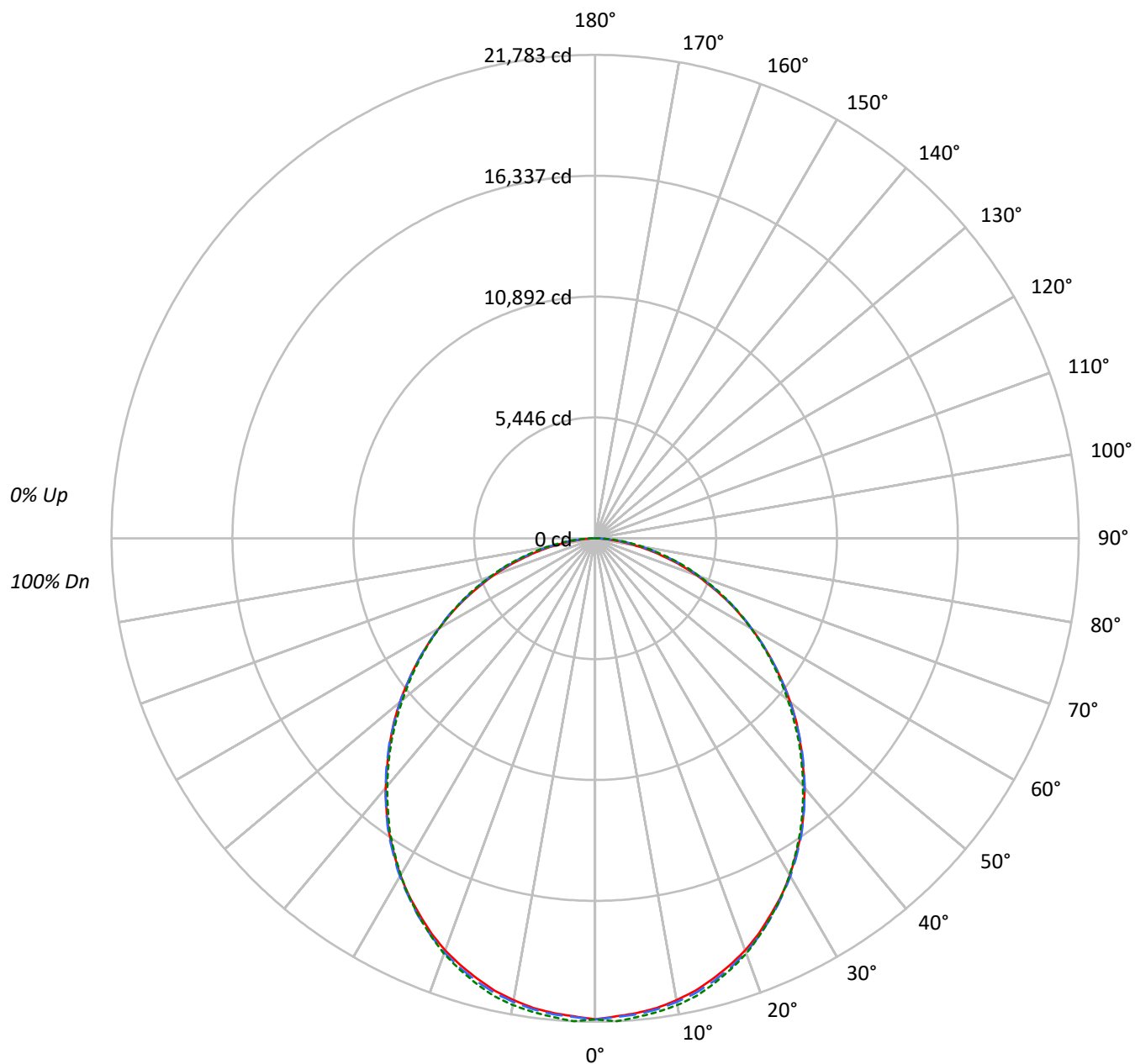
Input Watts (W): 367
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47
6	71	58	49	42	69	57	48	42	55	47	42	53	47	42	52	46	41
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	35002	35002	35002
5°	34802	34901	35100
10°	34644	34785	35011
15°	34340	34527	34695
20°	33951	34115	34213
25°	33323	33512	33463
30°	32708	32796	32662
35°	31898	31980	31776
40°	30939	30939	30701
45°	29858	29939	29634
50°	28832	28783	28423
55°	27584	27587	27339
60°	26248	26279	26177
65°	24738	24986	25049
70°	22849	23475	23500
75°	20193	21501	21835
80°	16562	18829	19894
85°	11493	15810	17877



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2050.2	3.6
10°-20°	5832.5	10.3
20°-30°	8667.5	15.3
30°-40°	10134.5	17.9
40°-50°	10104.4	17.8
50°-60°	8766.9	15.5
60°-70°	6475.4	11.4
70°-80°	3625.5	6.4
80°-90°	967.3	1.7
90°-100°	2.9	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	16550.2	29.2
0°-40°	26684.7	47.1
0°-60°	45555.9	80.4
0°-90°	56624.1	100.0
90°-120°	2.9	0.0
90°-150°	2.9	0.0
90°-180°	3.0	0.0
0°-180°	56627.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21678	21678	21678	21678	21678	
5°	21473	21608	21534	21629	21656	###
15°	20544	20687	20656	20755	20756	5794
25°	18705	18855	18811	18852	18783	8624
35°	16183	16325	16225	16222	16121	10109
45°	13076	13215	13112	13058	12978	10094
55°	9799	9866	9800	9784	9712	8762
65°	6475	6539	6540	6573	6556	6404
75°	3237	3333	3447	3471	3500	3447
85°	620	750	853	929	965	753
90°	0	14	16	37	34	25
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CATALOG NUMBER: HBLED-LD5-60SE-W-FLI-UNV-L750

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	21678.4	21678.4	21678.4	21678.4	21678.4
2.5°	21559.9	21688.2	21598.4	21684.0	21783.4
5°	21473.0	21608.3	21533.6	21628.7	21656.4
7.5°	21346.3	21477.3	21405.5	21500.7	21529.6
10°	21131.1	21273.2	21216.6	21324.2	21354.5
12.5°	20880.3	21013.9	20976.7	21102.1	21122.8
15°	20543.9	20687.4	20655.5	20754.9	20756.2
17.5°	20171.7	20306.6	20283.3	20360.6	20357.6
20°	19759.6	19904.1	19854.7	19938.6	19912.3
22.5°	19271.5	19425.9	19363.7	19434.1	19367.9
25°	18704.8	18855.2	18811.0	18852.2	18783.4
27.5°	18156.1	18294.0	18202.9	18252.6	18179.5
30°	17544.0	17661.1	17591.0	17607.5	17519.2
32.5°	16856.1	16995.3	16909.8	16907.1	16813.3
35°	16183.3	16325.2	16224.8	16221.9	16121.4
37.5°	15438.9	15571.2	15452.7	15459.6	15342.4
40°	14679.3	14793.8	14679.3	14673.7	14566.3
42.5°	13854.8	14006.5	13901.8	13914.1	13770.9
45°	13076.1	13215.3	13111.9	13058.0	12978.0
47.5°	12300.0	12360.6	12275.0	12261.2	12148.3
50°	11478.2	11523.6	11458.8	11442.3	11315.6
52.5°	10629.0	10707.7	10624.8	10602.7	10518.8
55°	9799.0	9866.5	9800.3	9783.9	9712.1
57.5°	8963.7	9051.9	8984.4	8967.7	8910.0
60°	8128.3	8154.4	8137.9	8162.6	8106.3
62.5°	7298.3	7358.9	7378.3	7371.4	7327.3
65°	6475.2	6538.7	6540.0	6573.2	6556.5
67.5°	5633.0	5715.6	5739.2	5773.5	5788.6
70°	4840.1	4903.6	4972.7	4993.2	4978.0
72.5°	4042.0	4144.0	4221.3	4239.1	4304.0
75°	3236.9	3333.4	3446.6	3471.3	3500.2
77.5°	2489.8	2617.9	2719.9	2753.1	2789.0
80°	1781.2	1923.1	2025.1	2070.5	2139.6
82.5°	1169.0	1313.9	1417.2	1462.6	1546.9
85°	620.4	750.1	853.4	929.1	965.0
87.5°	183.3	293.6	352.8	374.9	406.8
90°	0.0	13.8	16.5	37.2	34.5
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - 90°-270°







107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



(END OF REPORT)