

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: P731126

Luminaire Tested: **HBLED-LD5-60HE-N-CLI-UNV-L735**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731126
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23769)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-60HE-N-CLI-UNV-L735
Description: 60000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56350.0 lumens
Efficiency: N/A
Efficacy: 158.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

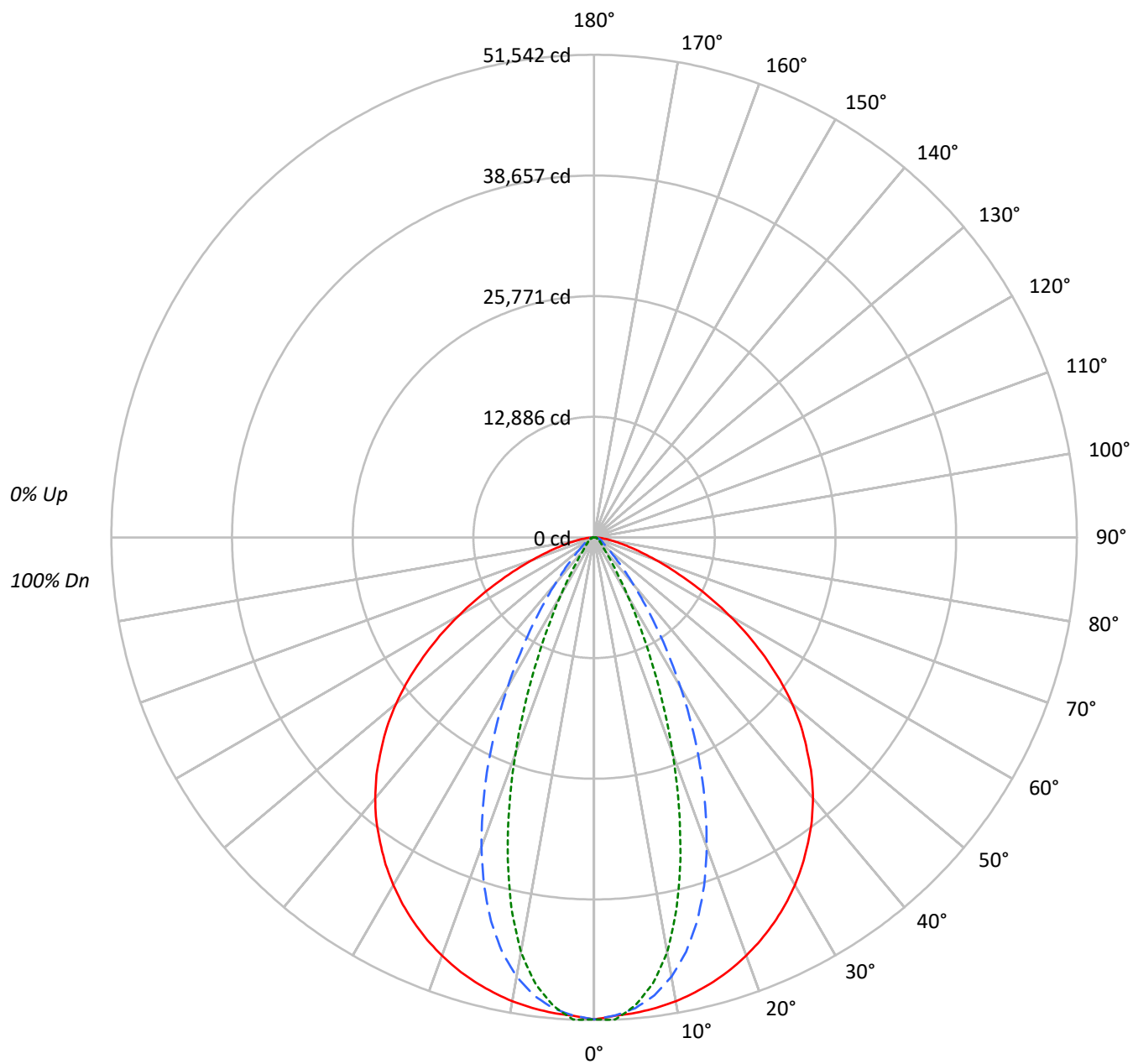
Input Watts (W): 355
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90		
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81		
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72		
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65		
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60		
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55		
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50		
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46		
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43		
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	83105	83105	83105
5°	82606	81784	81353
10°	82467	78080	73680
15°	82135	70974	59505
20°	81643	60393	42174
25°	80912	47621	25482
30°	79929	34369	13096
35°	78487	22469	6541
40°	76625	13497	3817
45°	73442	8060	2854
50°	69269	5271	2397
55°	62692	3998	2091
60°	53875	3405	1908
65°	43335	3107	1802
70°	32647	3328	1792
75°	24014	3163	1843
80°	17569	3150	2018
85°	13160	3820	2610



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4740.2	8.4
10°-20°	11792.7	20.9
20°-30°	13062.2	23.2
30°-40°	10465.2	18.6
40°-50°	7470.8	13.3
50°-60°	4798.6	8.5
60°-70°	2600.5	4.6
70°-80°	1111.5	2.0
80°-90°	308.3	0.5
90°-100°	0.0	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°	29595.2	52.5
0°-40°	40060.4	71.1
0°-60°	52329.7	92.9
0°-90°	56350.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	56350.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	51472	51472	51472	51472	51472	
5°	50967	51157	50460	50300	50195	###
15°	49137	47600	42460	37524	35599	13864
25°	45418	40047	26731	17416	14303	20923
35°	39820	28802	11400	4598	3318	24897
45°	32164	16627	3530	1502	1250	24791
55°	22271	7434	1420	873	743	19848
65°	11343	3052	813	561	472	11359
75°	3850	1117	507	352	295	4277
85°	710	295	206	171	141	868
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	51471.5	51471.5	51471.5	51471.5	51471.5
2.5°	51132.8	51452.7	51108.2	51322.4	51542.0
5°	50967.4	51157.3	50460.3	50300.3	50194.8
7.5°	50679.9	50625.7	49316.5	48467.8	48058.3
10°	50300.3	49861.2	47624.6	45759.5	44940.8
12.5°	49758.2	48852.8	45333.8	42058.9	40670.9
15°	49137.4	47600.3	42460.1	37523.5	35598.6
17.5°	48394.5	46136.3	39025.2	32659.9	30119.6
20°	47516.2	44368.8	35148.6	27492.6	24545.6
22.5°	46534.9	42330.1	30997.9	22341.5	19180.7
25°	45417.9	40047.3	26730.9	17415.7	14303.4
27.5°	44211.6	37512.7	22488.1	13013.0	10174.4
30°	42872.2	34769.0	18434.9	9383.0	7024.4
32.5°	41411.0	31852.0	14669.5	6598.6	4804.0
35°	39819.7	28802.1	11399.7	4597.8	3318.3
37.5°	38190.2	25689.7	8610.2	3250.4	2380.3
40°	36354.9	22588.2	6403.5	2380.3	1810.8
42.5°	34384.0	19546.5	4739.0	1832.5	1466.6
45°	32163.7	16626.7	3529.9	1502.0	1249.9
47.5°	30011.2	13905.0	2681.2	1279.6	1087.1
50°	27576.7	11448.8	2098.3	1117.0	954.2
52.5°	24993.0	9288.1	1702.5	984.1	840.4
55°	22271.1	7433.6	1420.4	872.9	742.9
57.5°	19514.0	5888.2	1214.5	777.9	661.6
60°	16683.7	4709.0	1054.6	696.7	590.9
62.5°	13921.2	3765.7	921.7	626.2	528.7
65°	11343.0	3052.5	813.3	561.2	471.7
67.5°	8959.8	2412.8	759.1	504.2	425.8
70°	6915.7	1878.7	704.9	450.0	379.6
72.5°	5240.3	1442.4	623.7	401.2	336.2
75°	3849.5	1117.0	507.0	352.5	295.4
77.5°	2754.5	859.5	412.1	306.3	254.9
80°	1889.5	639.9	338.8	262.9	217.0
82.5°	1228.2	452.9	273.8	217.0	178.8
85°	710.4	295.4	206.2	170.8	140.9
87.5°	306.3	162.5	140.9	127.5	108.4
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)