

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: P731147

Luminaire Tested: **HBLED-LD5-60HE-W-CLI-UNV-L835**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731147
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23766)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-60HE-W-CLI-UNV-L835
Description: 60000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS
INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56163.0 lumens
Efficiency: N/A
Efficacy: 158.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

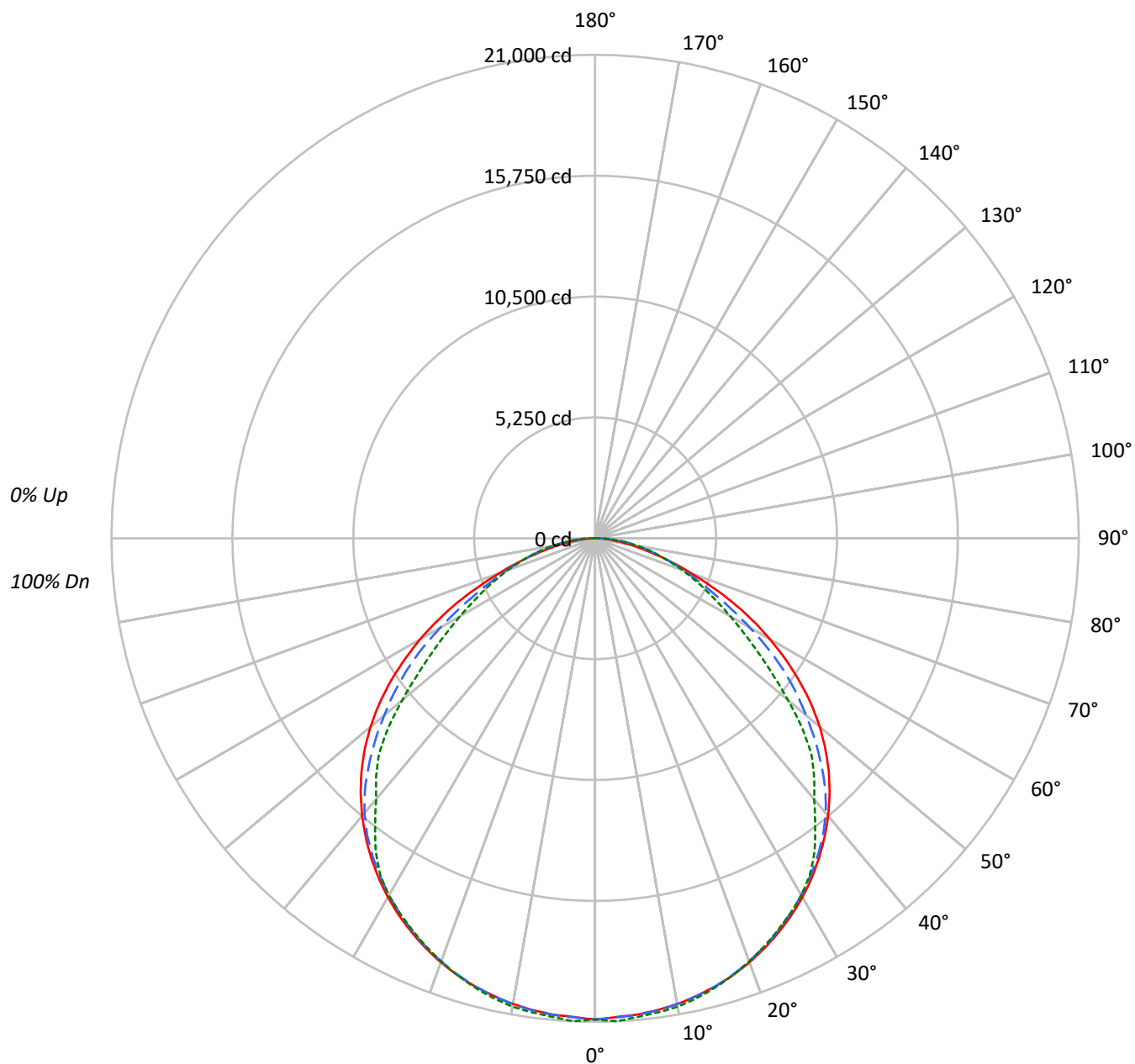
Input Watts (W): 355
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	33751	33751	33751
5°	33661	33685	33836
10°	33680	33696	33873
15°	33684	33680	33759
20°	33676	33598	33606
25°	33624	33499	33459
30°	33569	33368	33387
35°	33412	33205	32735
40°	33174	32836	31180
45°	32753	31705	30318
50°	31965	30017	27458
55°	30510	28073	24280
60°	28314	25048	21896
65°	25167	21687	20134
70°	20886	19381	18978
75°	16892	17737	17957
80°	13417	16964	16895
85°	10504	18225	17384



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1982.4	3.5
10°-20°	5702.3	10.2
20°-30°	8695.0	15.5
30°-40°	10519.7	18.7
40°-50°	10655.5	19.0
50°-60°	8807.1	15.7
60°-70°	5816.9	10.4
70°-80°	3033.2	5.4
80°-90°	950.9	1.7
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°	16379.8	29.2
0°-40°	26899.5	47.9
0°-60°	46362.1	82.5
0°-90°	56163.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	56163.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20904	20904	20904	20904	20904	
5°	20769	20894	20784	20874	20877	###
15°	20151	20254	20149	20212	20196	5690
25°	18874	18949	18804	18851	18781	8703
35°	16952	16974	16846	16824	16608	10603
45°	14344	14307	13885	13453	13278	11045
55°	10838	10678	9973	9004	8625	9660
65°	6588	6397	5676	5308	5270	6506
75°	2708	2755	2843	2881	2878	2950
85°	567	730	984	976	938	688
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	20904.1	20904.1	20904.1	20904.1	20904.1
2.5°	20816.4	20939.3	20836.3	20926.7	20999.5
5°	20768.6	20894.2	20783.7	20874.1	20876.6
7.5°	20675.9	20801.3	20688.3	20778.7	20776.2
10°	20542.7	20660.8	20552.8	20660.8	20660.8
12.5°	20362.2	20477.5	20372.3	20472.5	20457.4
15°	20151.4	20254.2	20148.9	20211.6	20196.5
17.5°	19902.9	19995.8	19877.7	19930.4	19900.4
20°	19599.3	19684.6	19554.2	19621.9	19559.0
22.5°	19257.8	19338.1	19205.2	19255.6	19185.1
25°	18874.1	18949.4	18803.8	18851.4	18781.2
27.5°	18459.9	18527.6	18364.5	18422.4	18367.0
30°	18005.6	18038.4	17897.9	17973.2	17908.0
32.5°	17498.8	17518.9	17395.8	17463.5	17353.2
35°	16951.6	16974.3	16846.4	16823.7	16607.9
37.5°	16367.0	16377.0	16256.7	16053.2	15696.9
40°	15739.7	15734.7	15579.1	15109.7	14793.5
42.5°	15069.5	15067.2	14793.5	14258.9	14078.4
45°	14344.3	14306.8	13885.0	13453.4	13277.7
47.5°	13566.5	13526.2	12936.5	12592.8	12193.7
50°	12725.7	12655.5	11950.2	11480.9	10931.5
52.5°	11819.8	11711.8	10994.1	10236.2	9716.8
55°	10838.5	10677.9	9972.9	9004.2	8625.3
57.5°	9817.3	9578.8	8893.7	7950.2	7641.5
60°	8768.3	8502.1	7756.8	6981.5	6780.6
62.5°	7689.1	7425.7	6665.3	6080.6	5970.1
65°	6587.5	6396.6	5676.5	5307.6	5270.1
67.5°	5458.2	5390.4	4840.8	4652.7	4637.6
70°	4424.3	4411.7	4105.5	4010.1	4020.2
72.5°	3536.0	3520.9	3475.8	3427.9	3430.5
75°	2707.8	2755.4	2843.3	2880.8	2878.5
77.5°	2020.2	2118.1	2303.7	2379.0	2366.4
80°	1443.0	1588.6	1824.5	1894.8	1817.0
82.5°	961.1	1114.2	1392.7	1402.8	1340.1
85°	567.0	730.2	983.8	976.2	938.4
87.5°	281.0	439.1	589.7	564.5	539.6
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)