

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: P731149

Luminaire Tested: **HBLED-LD5-60HE-W-CLI-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731149
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-L850
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: 58915.0 lumens
Efficiency: N/A
Efficacy: 166.0 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

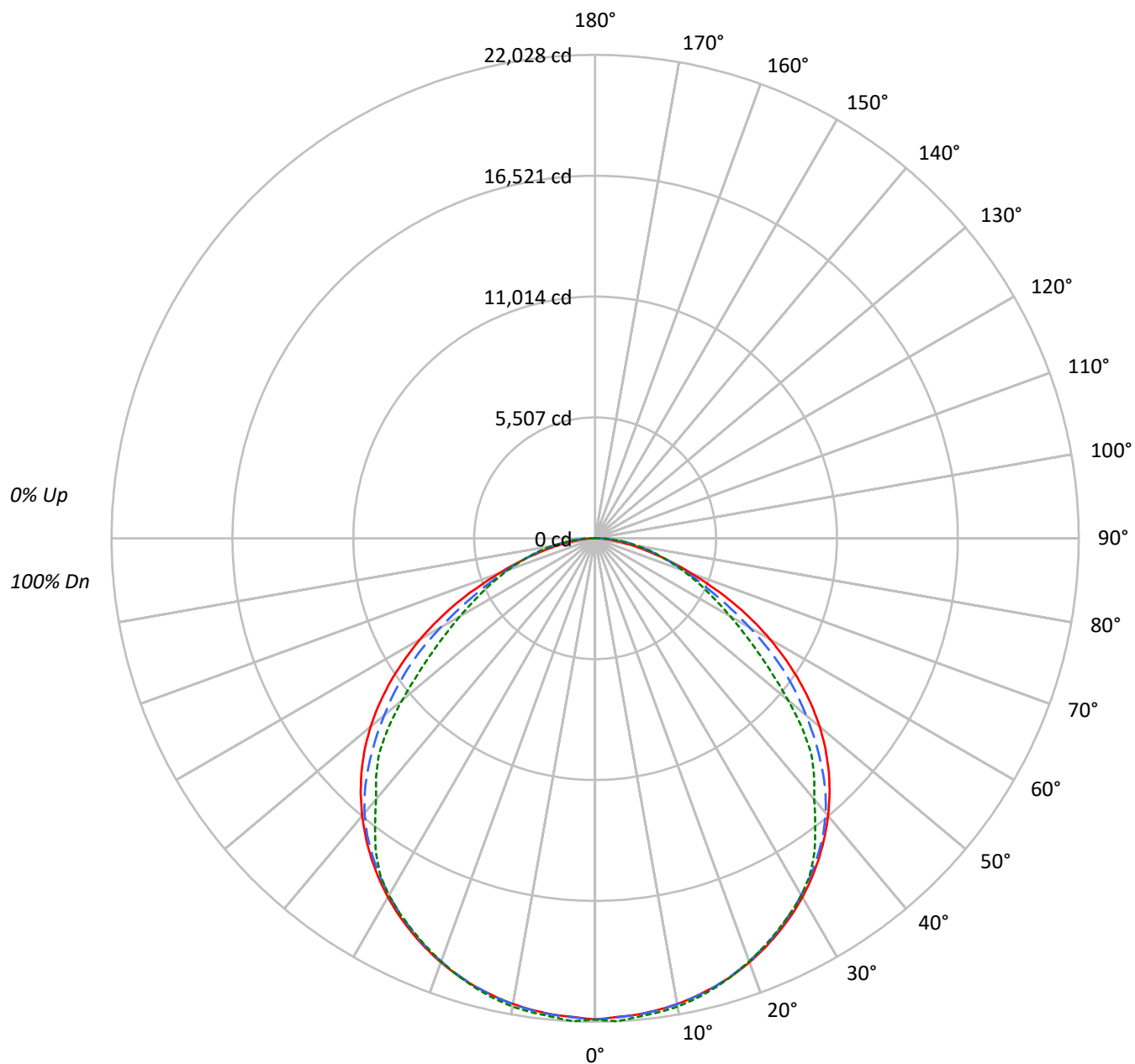
Input Watts (W): 355
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	35405	35405	35405
5°	35310	35336	35494
10°	35330	35347	35533
15°	35335	35330	35414
20°	35326	35244	35253
25°	35272	35140	35098
30°	35214	35003	35023
35°	35050	34832	34339
40°	34800	34445	32708
45°	34358	33258	31803
50°	33531	31488	28804
55°	32005	29449	25469
60°	29702	26275	22969
65°	26400	22749	21121
70°	21909	20331	19908
75°	17720	18606	18837
80°	14074	17796	17722
85°	11019	19118	18236



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2079.6	3.5
10°-20°	5981.7	10.2
20°-30°	9121.1	15.5
30°-40°	11035.2	18.7
40°-50°	11177.7	19.0
50°-60°	9238.6	15.7
60°-70°	6101.9	10.4
70°-80°	3181.8	5.4
80°-90°	997.5	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°	17182.4	29.2
0°-40°	28217.6	47.9
0°-60°	48633.8	82.5
0°-90°	58915.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	58915.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21928	21928	21928	21928	21928	
5°	21786	21918	21802	21897	21900	###
15°	21139	21247	21136	21202	21186	5969
25°	19799	19878	19725	19775	19702	9129
35°	17782	17806	17672	17648	17422	11123
45°	15047	15008	14565	14113	13928	11587
55°	11370	11201	10462	9445	9048	10134
65°	6910	6710	5955	5568	5528	6825
75°	2840	2890	2983	3022	3020	3094
85°	595	766	1032	1024	984	722
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	21928.4	21928.4	21928.4	21928.4	21928.4
2.5°	21836.5	21965.3	21857.3	21952.1	22028.5
5°	21786.3	21918.1	21802.1	21896.9	21899.6
7.5°	21689.1	21820.6	21702.0	21796.8	21794.2
10°	21549.3	21673.2	21559.9	21673.2	21673.2
12.5°	21360.0	21480.9	21370.5	21475.6	21459.8
15°	21138.9	21246.6	21136.2	21202.0	21186.2
17.5°	20878.2	20975.6	20851.8	20907.0	20875.5
20°	20559.6	20649.2	20512.3	20583.4	20517.4
22.5°	20201.5	20285.7	20146.3	20199.1	20125.1
25°	19798.9	19877.9	19725.2	19775.2	19701.5
27.5°	19364.4	19435.5	19264.3	19325.1	19267.0
30°	18887.9	18922.3	18774.9	18853.9	18785.4
32.5°	18356.2	18377.4	18248.2	18319.2	18203.6
35°	17782.3	17806.0	17671.9	17648.1	17421.7
37.5°	17168.9	17179.5	17053.3	16839.8	16466.1
40°	16511.0	16505.7	16342.5	15850.1	15518.4
42.5°	15807.9	15805.5	15518.4	14957.6	14768.2
45°	15047.2	15007.8	14565.4	14112.7	13928.3
47.5°	14231.3	14189.0	13570.4	13209.8	12791.2
50°	13349.3	13275.6	12535.8	12043.4	11467.1
52.5°	12399.0	12285.6	11532.9	10737.8	10192.9
55°	11369.6	11201.1	10461.5	9445.4	9047.9
57.5°	10298.3	10048.2	9329.5	8339.8	8015.9
60°	9197.9	8918.7	8136.9	7323.6	7112.9
62.5°	8065.8	7789.6	6991.9	6378.6	6262.6
65°	6910.3	6710.0	5954.6	5567.7	5528.3
67.5°	5725.6	5654.6	5078.0	4880.7	4864.8
70°	4641.1	4627.9	4306.7	4206.6	4217.2
72.5°	3709.2	3693.4	3646.1	3595.9	3598.6
75°	2840.5	2890.4	2982.6	3022.0	3019.6
77.5°	2119.1	2221.9	2416.6	2495.5	2482.3
80°	1513.7	1666.4	1913.9	1987.6	1906.0
82.5°	1008.2	1168.8	1460.9	1471.5	1405.7
85°	594.8	766.0	1032.0	1024.0	984.4
87.5°	294.8	460.6	618.6	592.2	566.0
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)