

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: P731184

Luminaire Tested: **HBLED-LD5-60SE-W-CLI-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731184
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-LD5-60SE-W-CLI-UNV-L840
Description: 60000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS
INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55220.0 lumens
Efficiency: N/A
Efficacy: 150.5 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

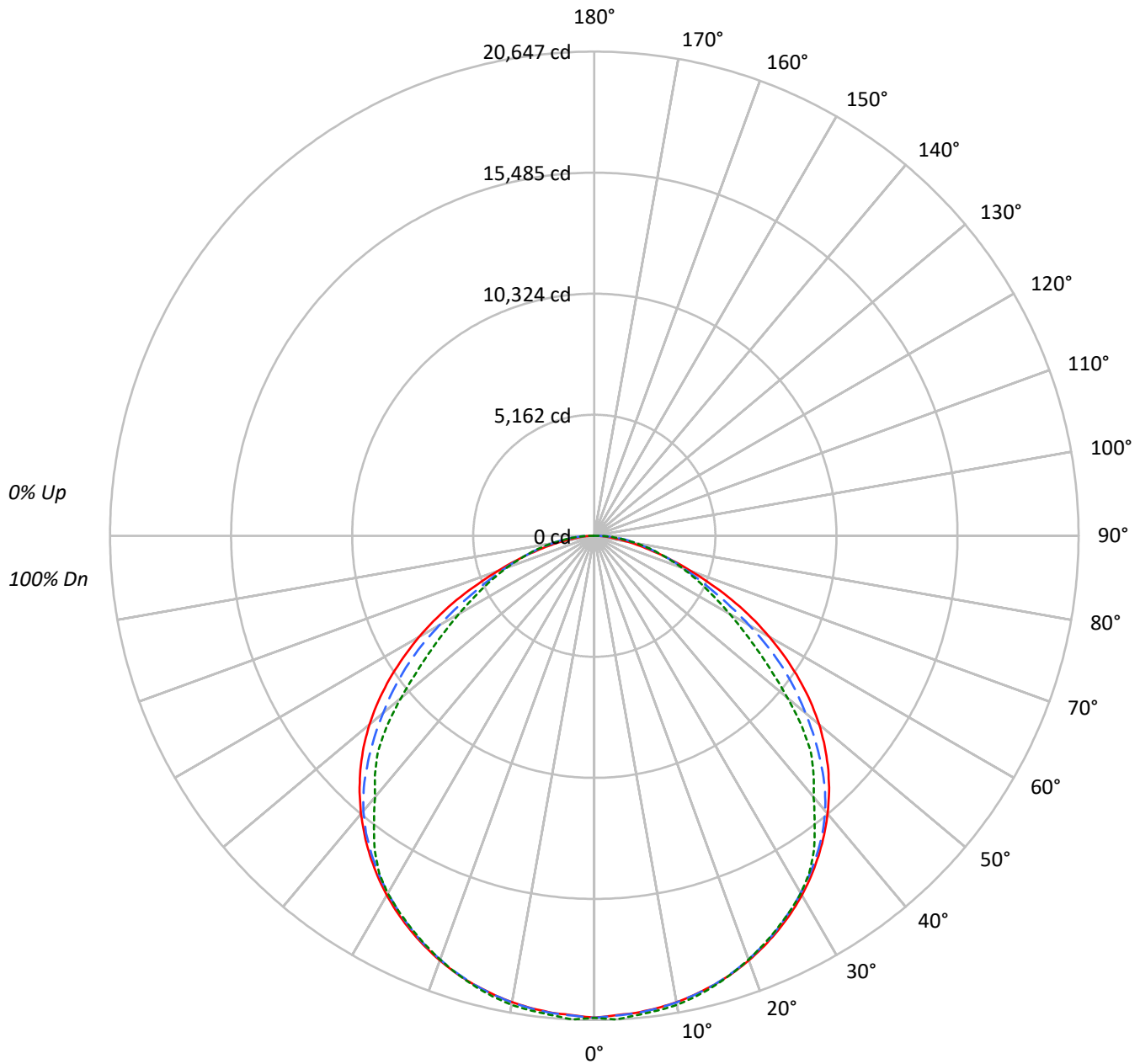
Input Watts (W): 367
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	33185	33185	33185
5°	33096	33120	33268
10°	33114	33130	33305
15°	33118	33114	33193
20°	33110	33034	33042
25°	33060	32937	32897
30°	33005	32808	32826
35°	32851	32647	32185
40°	32618	32285	30657
45°	32203	31172	29809
50°	31429	29513	26997
55°	29998	27602	23872
60°	27839	24628	21528
65°	24745	21323	19796
70°	20535	19056	18660
75°	16608	17439	17656
80°	13192	16680	16610
85°	10328	17918	17093



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1949.2	3.5
10°-20°	5606.6	10.2
20°-30°	8549.0	15.5
30°-40°	10343.1	18.7
40°-50°	10476.6	19.0
50°-60°	8659.2	15.7
60°-70°	5719.2	10.4
70°-80°	2982.2	5.4
80°-90°	934.9	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°	16104.8	29.2
0°-40°	26447.8	47.9
0°-60°	45583.6	82.5
0°-90°	55220.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	55220.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20553	20553	20553	20553	20553	
5°	20420	20543	20435	20524	20526	###
15°	19813	19914	19811	19872	19857	5595
25°	18557	18631	18488	18535	18466	8557
35°	16667	16689	16564	16541	16329	10425
45°	14103	14067	13652	13228	13055	10860
55°	10657	10499	9805	8853	8480	9498
65°	6477	6289	5581	5218	5182	6397
75°	2662	2709	2796	2832	2830	2900
85°	558	718	967	960	923	677
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	20553.1	20553.1	20553.1	20553.1	20553.1
2.5°	20466.9	20587.7	20486.5	20575.4	20646.9
5°	20419.9	20543.4	20434.7	20523.6	20526.1
7.5°	20328.8	20452.1	20340.9	20429.8	20427.3
10°	20197.8	20313.9	20207.7	20313.9	20313.9
12.5°	20020.3	20133.7	20030.2	20128.7	20113.9
15°	19813.1	19914.1	19810.6	19872.3	19857.4
17.5°	19568.7	19660.1	19544.0	19595.7	19566.3
20°	19270.2	19354.1	19225.9	19292.5	19230.6
22.5°	18934.5	19013.5	18882.7	18932.3	18862.9
25°	18557.2	18631.2	18488.1	18534.9	18465.8
27.5°	18149.9	18216.5	18056.1	18113.0	18058.6
30°	17703.3	17735.5	17597.4	17671.4	17607.3
32.5°	17205.0	17224.8	17103.7	17170.3	17061.9
35°	16667.0	16689.3	16563.5	16541.2	16329.1
37.5°	16092.2	16102.1	15983.7	15783.7	15433.4
40°	15475.5	15470.5	15317.5	14856.0	14545.1
42.5°	14816.4	14814.2	14545.1	14019.5	13842.0
45°	14103.4	14066.6	13651.9	13227.5	13054.7
47.5°	13338.7	13299.1	12719.3	12381.4	11989.0
50°	12512.1	12443.0	11749.6	11288.1	10747.9
52.5°	11621.3	11515.1	10809.6	10064.4	9553.6
55°	10656.6	10498.6	9805.4	8853.0	8480.4
57.5°	9652.4	9418.0	8744.3	7816.7	7513.2
60°	8621.1	8359.4	7626.6	6864.3	6666.8
62.5°	7560.0	7301.0	6553.4	5978.5	5869.8
65°	6476.9	6289.2	5581.2	5218.5	5181.6
67.5°	5366.5	5299.9	4759.5	4574.6	4559.7
70°	4350.0	4337.6	4036.6	3942.8	3952.7
72.5°	3476.6	3461.7	3417.4	3370.4	3372.9
75°	2662.3	2709.1	2795.5	2832.4	2830.2
77.5°	1986.2	2082.5	2265.0	2339.0	2326.6
80°	1418.8	1561.9	1793.9	1862.9	1786.4
82.5°	945.0	1095.5	1369.3	1379.2	1317.6
85°	557.5	717.9	967.2	959.8	922.7
87.5°	276.3	431.8	579.8	555.0	530.5
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)