

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: P731185

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731185
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-L850
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: 56303.0 lumens
Efficiency: N/A
Efficacy: 153.4 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

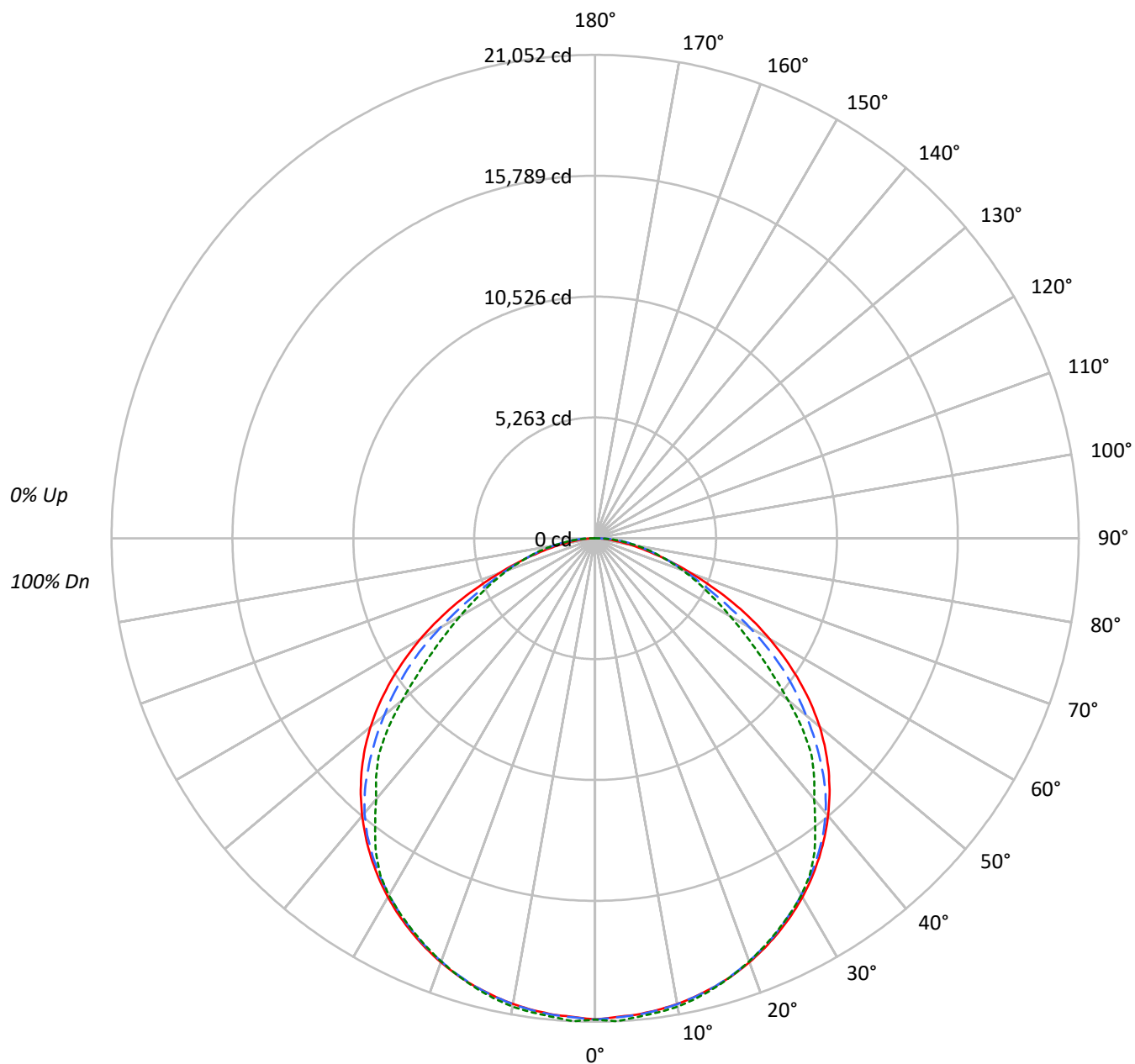
Input Watts (W): 367
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	33836	33836	33836
5°	33745	33769	33920
10°	33764	33780	33958
15°	33768	33764	33844
20°	33760	33682	33690
25°	33708	33583	33542
30°	33653	33451	33470
35°	33496	33288	32817
40°	33257	32918	31258
45°	32835	31784	30393
50°	32045	30092	27527
55°	30586	28143	24340
60°	28385	25110	21950
65°	25230	21741	20184
70°	20938	19430	19026
75°	16934	17782	18002
80°	13451	17007	16936
85°	10532	18270	17429



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1987.4	3.5
10°-20°	5716.5	10.2
20°-30°	8716.7	15.5
30°-40°	10545.9	18.7
40°-50°	10682.1	19.0
50°-60°	8829.0	15.7
60°-70°	5831.4	10.4
70°-80°	3040.7	5.4
80°-90°	953.2	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°	16420.6	29.2
0°-40°	26966.6	47.9
0°-60°	46477.6	82.5
0°-90°	56303.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	56303.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20956	20956	20956	20956	20956	
5°	20820	20946	20836	20926	20929	###
15°	20202	20305	20199	20262	20247	5705
25°	18921	18997	18851	18898	18828	8724
35°	16994	17017	16888	16866	16649	10629
45°	14380	14342	13920	13487	13311	11073
55°	10866	10704	9998	9027	8647	9684
65°	6604	6413	5691	5321	5283	6523
75°	2715	2762	2850	2888	2886	2957
85°	568	732	986	979	941	690
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	20956.2	20956.2	20956.2	20956.2	20956.2
2.5°	20868.3	20991.5	20888.3	20978.9	21051.8
5°	20820.4	20946.3	20835.5	20926.1	20928.7
7.5°	20727.5	20853.2	20739.8	20830.5	20827.9
10°	20593.9	20712.3	20604.0	20712.3	20712.3
12.5°	20413.0	20528.6	20423.1	20523.5	20508.4
15°	20201.7	20304.7	20199.2	20262.0	20246.9
17.5°	19952.5	20045.7	19927.3	19980.1	19950.0
20°	19648.1	19733.7	19602.9	19670.8	19607.7
22.5°	19305.8	19386.4	19253.1	19303.6	19232.9
25°	18921.1	18996.6	18850.7	18898.4	18828.0
27.5°	18505.9	18573.8	18410.2	18468.3	18412.8
30°	18050.5	18083.3	17942.5	18018.0	17952.6
32.5°	17542.4	17562.6	17439.2	17507.1	17396.5
35°	16993.9	17016.6	16888.4	16865.7	16649.3
37.5°	16407.8	16417.9	16297.2	16093.2	15736.1
40°	15779.0	15773.9	15617.9	15147.4	14830.4
42.5°	15107.0	15104.8	14830.4	14294.5	14113.5
45°	14380.0	14342.4	13919.6	13487.0	13310.8
47.5°	13600.3	13559.9	12968.7	12624.2	12224.1
50°	12757.5	12687.0	11980.0	11509.5	10958.7
52.5°	11849.2	11741.0	11021.6	10261.8	9741.0
55°	10865.6	10704.5	9997.7	9026.7	8646.8
57.5°	9841.7	9602.7	8915.8	7970.0	7660.5
60°	8790.1	8523.3	7776.1	6998.9	6797.5
62.5°	7708.2	7444.2	6681.9	6095.8	5985.0
65°	6603.9	6412.6	5690.6	5320.8	5283.2
67.5°	5471.8	5403.9	4852.8	4664.3	4649.1
70°	4435.3	4422.7	4115.8	4020.1	4030.2
72.5°	3544.8	3529.6	3484.4	3436.5	3439.0
75°	2714.6	2762.3	2850.4	2888.0	2885.7
77.5°	2025.2	2123.4	2309.4	2384.9	2372.3
80°	1446.6	1592.5	1829.1	1899.5	1821.5
82.5°	963.5	1117.0	1396.2	1406.2	1343.4
85°	568.5	732.0	986.2	978.6	940.8
87.5°	281.7	440.2	591.2	565.9	540.9
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)