

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: P731179

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731179
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23765)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-60SE-W-AI-UNV-L850
Description: 60000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND PRISMATIC ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53454.0 lumens
Efficiency: N/A
Efficacy: 145.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

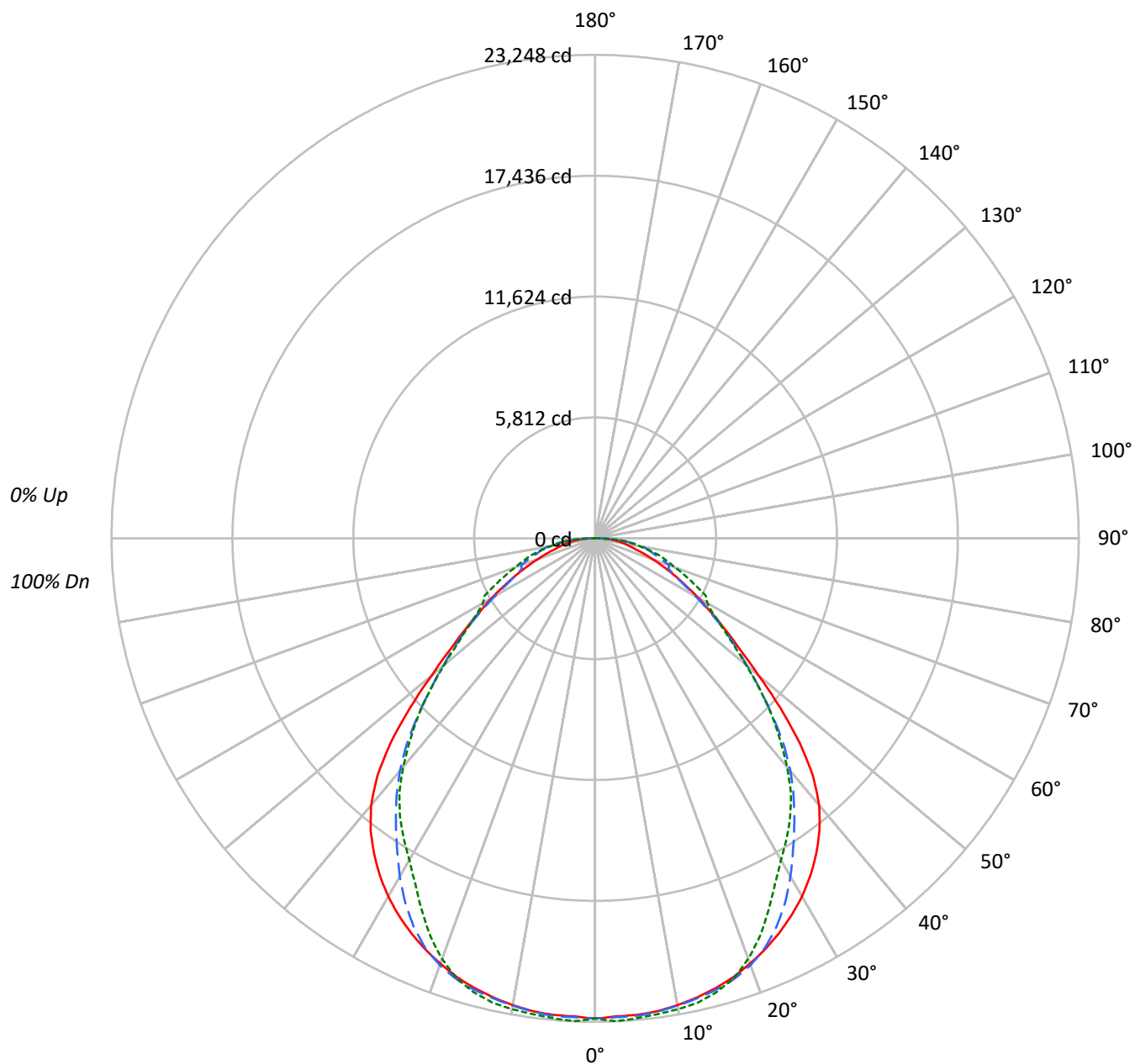
Input Watts (W): 367
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63		
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55		
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48		
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43		
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38		
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34		
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31		
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	37287	37287	37287
5°	37285	37366	37548
10°	37378	37425	37699
15°	37435	37575	37759
20°	37397	37536	36979
25°	37302	36744	35146
30°	37083	35011	33304
35°	36524	32906	32220
40°	35303	30767	30260
45°	31731	27473	27372
50°	25736	23930	23766
55°	21370	20973	20965
60°	18502	17962	20081
65°	16036	15935	20241
70°	13826	17875	19295
75°	12399	18321	20115
80°	12887	21567	20180
85°	14628	24854	23060



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2198.8	4.1
10°-20°	6350.4	11.9
20°-30°	9431.7	17.6
30°-40°	10707.6	20.0
40°-50°	9572.1	17.9
50°-60°	6618.2	12.4
60°-70°	4367.1	8.2
70°-80°	2946.2	5.5
80°-90°	1261.9	2.4
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°	17980.9	33.6
0°-40°	28688.5	53.7
0°-60°	44878.8	84.0
0°-90°	53454.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	53454.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23094	23094	23094	23094	23094	
5°	23005	23146	23054	23149	23167	###
15°	22396	22503	22479	22605	22589	6322
25°	20939	21138	20625	20011	19728	9648
35°	18530	18141	16695	16452	16347	11555
45°	13897	12720	12032	12124	11988	10568
55°	7592	6930	7450	7346	7448	6895
65°	4197	3726	4171	4877	5298	4189
75°	1988	2500	2937	3138	3224	2171
85°	790	1098	1342	1350	1245	823
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	23093.8	23093.8	23093.8	23093.8	23093.8
2.5°	23015.4	23159.2	23052.0	23151.4	23248.0
5°	23004.8	23146.1	23054.5	23148.6	23167.0
7.5°	22939.4	23070.1	22962.9	23054.5	23075.4
10°	22798.2	22952.6	22826.9	22968.2	22994.4
12.5°	22615.3	22772.2	22662.2	22855.7	22866.3
15°	22395.5	22502.7	22479.3	22604.7	22589.0
17.5°	22118.3	22241.4	22223.0	22254.2	22181.1
20°	21765.3	21903.8	21846.3	21702.5	21522.1
22.5°	21386.1	21553.4	21326.1	20962.5	20708.7
25°	20938.8	21137.6	20625.2	20010.7	19728.1
27.5°	20444.6	20622.5	19770.0	19016.9	18724.0
30°	19890.3	19966.0	18778.8	18062.3	17863.5
32.5°	19249.5	19139.8	17719.7	17246.4	17131.4
35°	18530.5	18140.7	16694.7	16451.5	16346.8
37.5°	17719.7	17006.0	15682.7	15570.2	15460.2
40°	16749.7	15695.6	14597.4	14524.3	14356.7
42.5°	15497.1	14270.5	13391.7	13305.5	13156.4
45°	13896.6	12719.7	12031.9	12123.5	11987.5
47.5°	12055.4	11163.8	10727.1	10978.1	10727.1
50°	10245.8	9647.1	9526.8	9754.3	9461.4
52.5°	8763.1	8224.5	8473.0	8512.1	8337.0
55°	7591.5	6930.0	7450.5	7345.8	7447.7
57.5°	6571.8	5831.5	6472.4	6352.0	6702.4
60°	5729.6	4898.1	5562.4	5536.1	6218.6
62.5°	4903.4	4239.1	4772.5	5156.9	5996.3
65°	4197.3	3726.5	4171.0	4877.2	5298.2
67.5°	3519.9	3342.0	3815.3	4207.6	4668.0
70°	2928.8	3020.3	3786.5	3713.4	4087.3
72.5°	2432.0	2743.3	3342.0	3355.1	3619.3
75°	1987.5	2500.1	2936.8	3138.2	3224.4
77.5°	1652.7	2267.3	2651.8	2722.4	2638.6
80°	1386.0	1997.8	2319.5	2288.2	2170.4
82.5°	1119.1	1514.2	1828.1	1856.8	1718.1
85°	789.6	1098.4	1341.6	1349.5	1244.8
87.5°	423.6	677.4	813.4	836.8	774.0
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)