

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: P731197

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731197
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-003-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-60SE-W-UNV-L850
Description: 60000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60605.0 lumens
Efficiency: N/A
Efficacy: 165.1 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.31 / 1.43
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

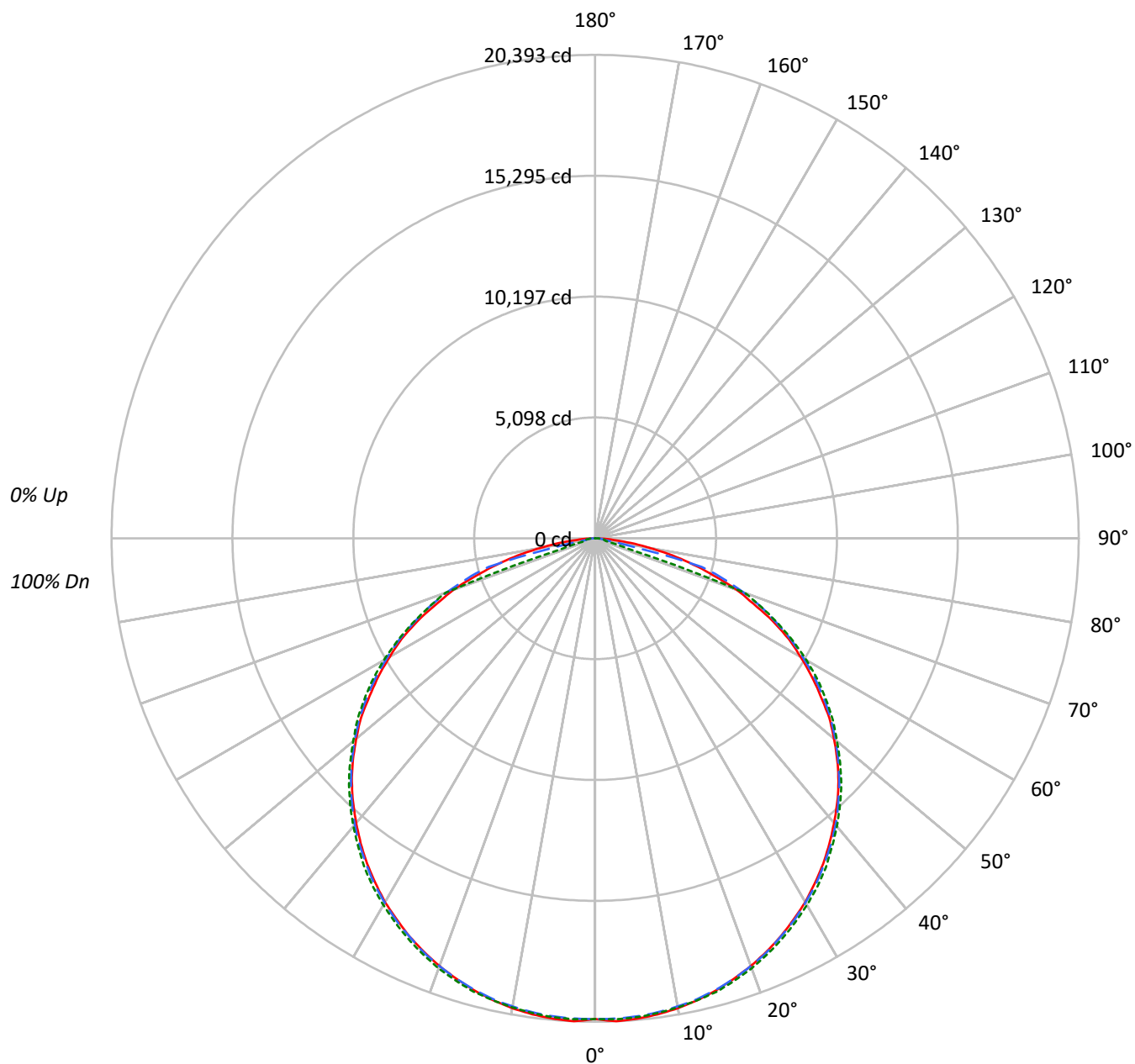
Input Watts (W): 367
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85		
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70		
3	90	80	72	65	88	78	71	64	75	69	63	72	67	62	70	65	61	59		
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50		
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43		
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37		
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33		
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29		
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26		
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	32744	32744	32744
5°	32979	32811	32869
10°	32997	32879	32945
15°	32993	32948	33099
20°	32990	32998	33169
25°	33006	33022	33224
30°	33042	33084	33304
35°	33036	33143	33419
40°	33041	33251	33432
45°	33134	33258	33526
50°	33034	33227	33442
55°	32671	33128	33484
60°	32299	32824	33233
65°	31585	32241	32483
70°	29986	31265	31649
75°	26745	29001	3495
80°	21507	3612	3822
85°	14311	4687	4770



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1926.2	3.2
10°-20°	5565.7	9.2
20°-30°	8551.3	14.1
30°-40°	10527.0	17.4
40°-50°	11222.8	18.5
50°-60°	10491.1	17.3
60°-70°	8305.0	13.7
70°-80°	3533.4	5.8
80°-90°	482.5	0.8
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°	16043.2	26.5
0°-40°	26570.2	43.8
0°-60°	48284.1	79.7
0°-90°	60605.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	60605.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20280	20280	20280	20280	20280	
5°	20348	20258	20244	20163	20280	###
15°	19738	19702	19711	19657	19801	5573
25°	18527	18505	18536	18527	18649	8542
35°	16761	16734	16815	16874	16955	10488
45°	14511	14430	14565	14624	14683	11181
55°	11606	11642	11769	11809	11895	10393
65°	8268	8340	8439	8502	8502	8133
75°	4287	4473	4649	759	560	4536
85°	772	230	253	262	258	###
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	20280.2	20280.2	20280.2	20280.2	20280.2
2.5°	20393.1	20298.2	20280.2	20198.8	20307.3
5°	20347.9	20257.6	20244.0	20162.7	20280.2
7.5°	20253.1	20180.8	20171.7	20085.9	20203.4
10°	20126.6	20058.8	20054.3	19977.5	20094.9
12.5°	19954.9	19896.2	19914.2	19837.4	19954.9
15°	19738.0	19701.9	19710.9	19656.7	19801.3
17.5°	19476.0	19457.9	19476.0	19435.3	19566.4
20°	19200.4	19177.8	19204.9	19182.4	19304.3
22.5°	18879.7	18852.6	18906.8	18875.1	18988.1
25°	18527.3	18504.7	18536.3	18527.3	18649.3
27.5°	18125.2	18102.6	18170.4	18174.9	18269.8
30°	17723.1	17691.5	17745.7	17768.3	17863.2
32.5°	17244.2	17235.2	17316.5	17334.6	17434.0
35°	16760.8	16733.7	16815.1	16873.8	16955.1
37.5°	16232.3	16227.7	16313.6	16363.3	16403.9
40°	15676.6	15654.0	15776.0	15825.7	15861.8
42.5°	15111.9	15062.2	15179.6	15242.9	15283.5
45°	14511.0	14429.7	14565.2	14623.9	14682.7
47.5°	13851.4	13779.1	13910.1	13973.4	14014.1
50°	13151.2	13083.4	13228.0	13282.2	13313.8
52.5°	12446.4	12378.6	12532.2	12577.4	12654.2
55°	11606.1	11642.2	11768.7	11809.4	11895.2
57.5°	10829.0	10860.7	10982.6	11032.3	11131.7
60°	10002.3	10052.0	10164.9	10214.6	10291.4
62.5°	9202.7	9207.2	9342.7	9365.3	9424.0
65°	8267.5	8339.8	8439.2	8502.4	8502.4
67.5°	7223.9	7400.1	7571.7	7558.2	7594.3
70°	6352.0	6419.7	6623.0	6654.6	6704.3
72.5°	5258.7	5434.8	5660.7	4228.6	1436.6
75°	4287.3	4472.6	4648.8	759.0	560.2
77.5°	3329.6	3474.1	1545.1	433.7	424.7
80°	2313.1	2543.5	388.5	397.6	411.1
82.5°	1522.5	1242.4	320.8	352.4	356.9
85°	772.5	230.4	253.0	262.0	257.5
87.5°	253.0	140.1	144.6	149.1	153.6
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)