

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: P730309

Luminaire Tested: **HBLED-LD5-12SE-N-CL-WG-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730309
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33344)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12SE-N-CL-WG-UNV-L850
Description: 12000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS, WIREGUARD & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11046.0 lumens
Efficiency: N/A
Efficacy: 147.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

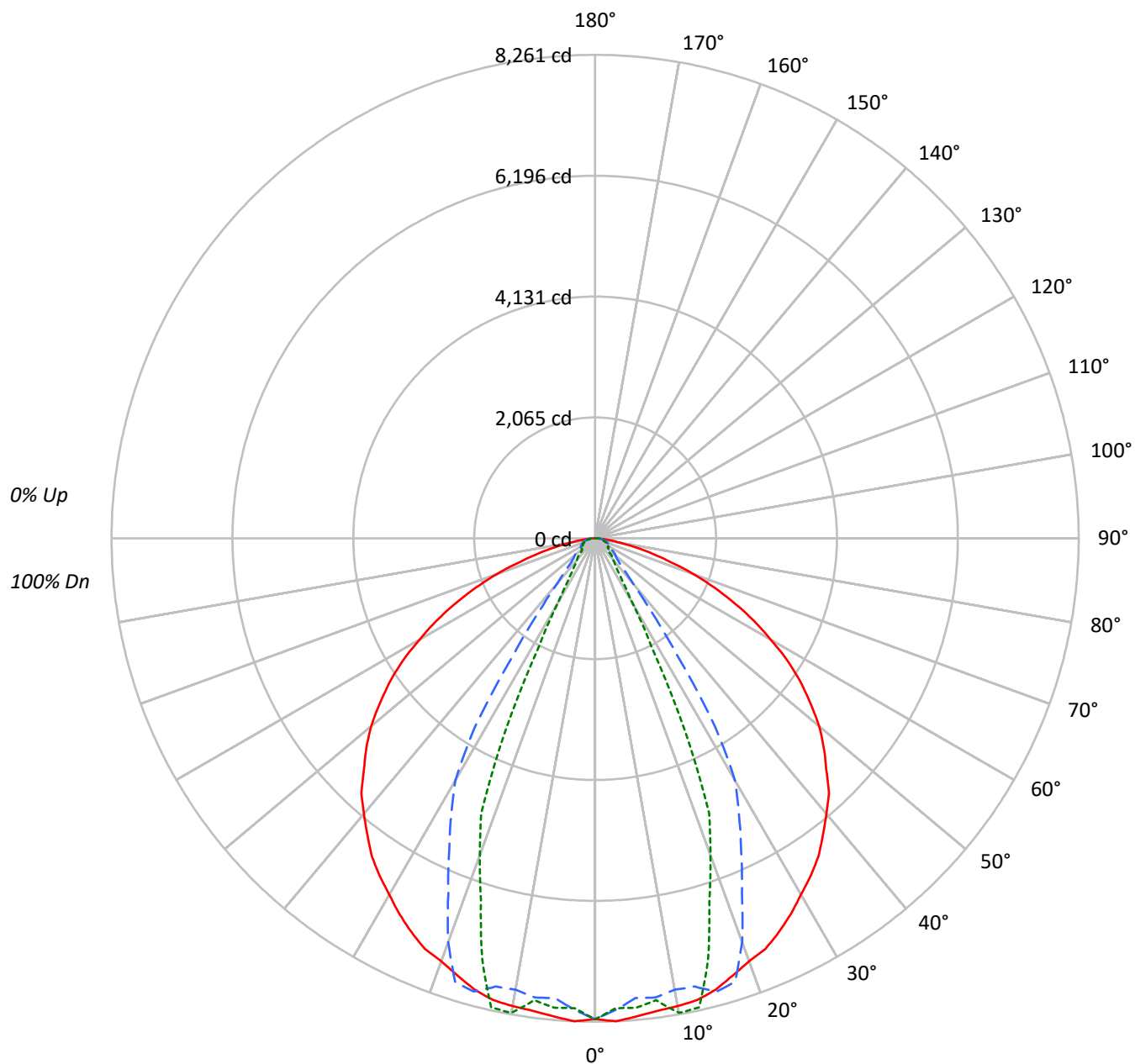
Input Watts (W): 75
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	108	104	101	109	105	103	100	101	99	97		98	96	94		94
2	104	97	92	88	101	96	91	87	92	88	85		89	86	83		86
3	97	89	82	77	95	87	81	76	84	79	75		82	77	74		79
4	90	81	74	68	88	80	73	68	77	72	67		75	70	66		73
5	85	74	67	62	83	73	66	61	71	65	61		69	64	60		68
6	79	68	61	56	78	68	61	56	66	60	55		64	59	55		63
7	75	63	56	51	73	63	56	51	61	55	50		60	54	50		59
8	70	59	52	47	69	58	51	47	57	51	46		56	50	46		55
9	66	55	48	43	65	54	48	43	53	47	43		52	47	43		52
10	63	52	45	40	62	51	45	40	50	44	40		49	44	40		48

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13266	13266	13266
5°	13288	12782	13051
10°	13308	12844	13503
15°	13337	13407	12461
20°	13211	12610	9890
25°	13230	10512	6461
30°	13111	8905	2321
35°	13098	4824	1305
40°	12949	2103	1022
45°	12749	1300	802
50°	12550	1132	757
55°	12057	982	740
60°	11187	880	796
65°	10055	994	870
70°	8433	1069	896
75°	6304	1220	971
80°	3959	1416	1106
85°	2636	1775	1621



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	761.6	6.9
10°-20°	2150.5	19.5
20°-30°	2633.3	23.8
30°-40°	2068.0	18.7
40°-50°	1533.5	13.9
50°-60°	933.6	8.5
60°-70°	559.2	5.1
70°-80°	306.8	2.8
80°-90°	99.5	0.9
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°	5545.4	50.2
0°-40°	7613.3	68.9
0°-60°	10080.4	91.3
0°-90°	11046.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11046.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8217	8217	8217	8217	8217	
5°	8199	7976	7886	7974	8053	780
15°	7979	7760	8020	7697	7455	2247
25°	7426	7450	5901	4628	3626	3419
35°	6645	6045	2448	819	662	4146
45°	5584	4009	569	431	351	4318
55°	4283	1105	349	295	263	3812
65°	2632	326	260	245	228	2600
75°	1011	205	196	170	156	1094
85°	142	112	96	88	88	174
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8216.6	8216.6	8216.6	8216.6	8216.6
2.5°	8261.4	8150.1	8064.9	8017.2	8036.6
5°	8198.8	7975.7	7886.5	7973.5	8052.7
7.5°	8144.6	7812.9	7913.7	7921.4	7962.9
10°	8116.9	7797.4	7833.9	8006.1	8235.9
12.5°	8080.4	7833.4	7846.1	8080.9	8210.5
15°	7979.0	7760.3	8020.5	7696.6	7454.6
17.5°	7831.1	7589.7	7947.4	6818.3	6489.4
20°	7688.8	7404.2	7338.9	6073.5	5756.2
22.5°	7596.9	7376.0	6555.9	5411.8	5084.0
25°	7426.4	7449.6	5900.8	4628.2	3626.5
27.5°	7238.6	7276.3	5321.6	3086.6	2077.7
30°	7032.6	7075.9	4776.6	1824.0	1244.9
32.5°	6846.0	6602.4	3814.8	1138.0	865.5
35°	6645.0	6044.7	2447.6	819.0	662.3
37.5°	6392.0	5458.9	1549.4	647.9	556.0
40°	6143.9	4932.8	997.9	553.2	485.1
42.5°	5911.9	4499.2	726.0	483.4	438.0
45°	5583.5	4009.2	569.3	431.3	351.1
47.5°	5299.4	3434.4	497.8	364.9	302.9
50°	4996.5	2625.9	450.8	324.5	301.3
52.5°	4637.1	1717.7	416.4	310.7	281.3
55°	4283.3	1104.8	348.8	295.1	263.0
57.5°	3901.2	700.5	307.9	286.3	274.6
60°	3464.3	472.3	272.5	271.3	246.4
62.5°	3060.0	388.2	263.0	260.3	233.1
65°	2632.0	325.6	260.3	244.8	227.6
67.5°	2204.5	279.1	235.4	223.7	208.7
70°	1786.4	255.3	226.5	221.5	189.9
72.5°	1356.7	210.4	201.0	187.7	157.8
75°	1010.6	205.4	195.5	170.0	155.6
77.5°	683.9	189.4	177.8	152.3	140.7
80°	425.8	173.9	152.3	133.5	119.0
82.5°	253.1	145.1	125.2	110.2	100.8
85°	142.3	111.9	95.8	88.1	87.5
87.5°	30.5	40.4	32.1	30.5	21.6
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)