

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: P730453

Luminaire Tested: **HBLED-LD5-15SE-N-CL-WG-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730453
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-LD5-15SE-N-CL-WG-UNV-L850
Description: 15000 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: 14251.0 lumens
Efficiency: N/A
Efficacy: 151.6 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

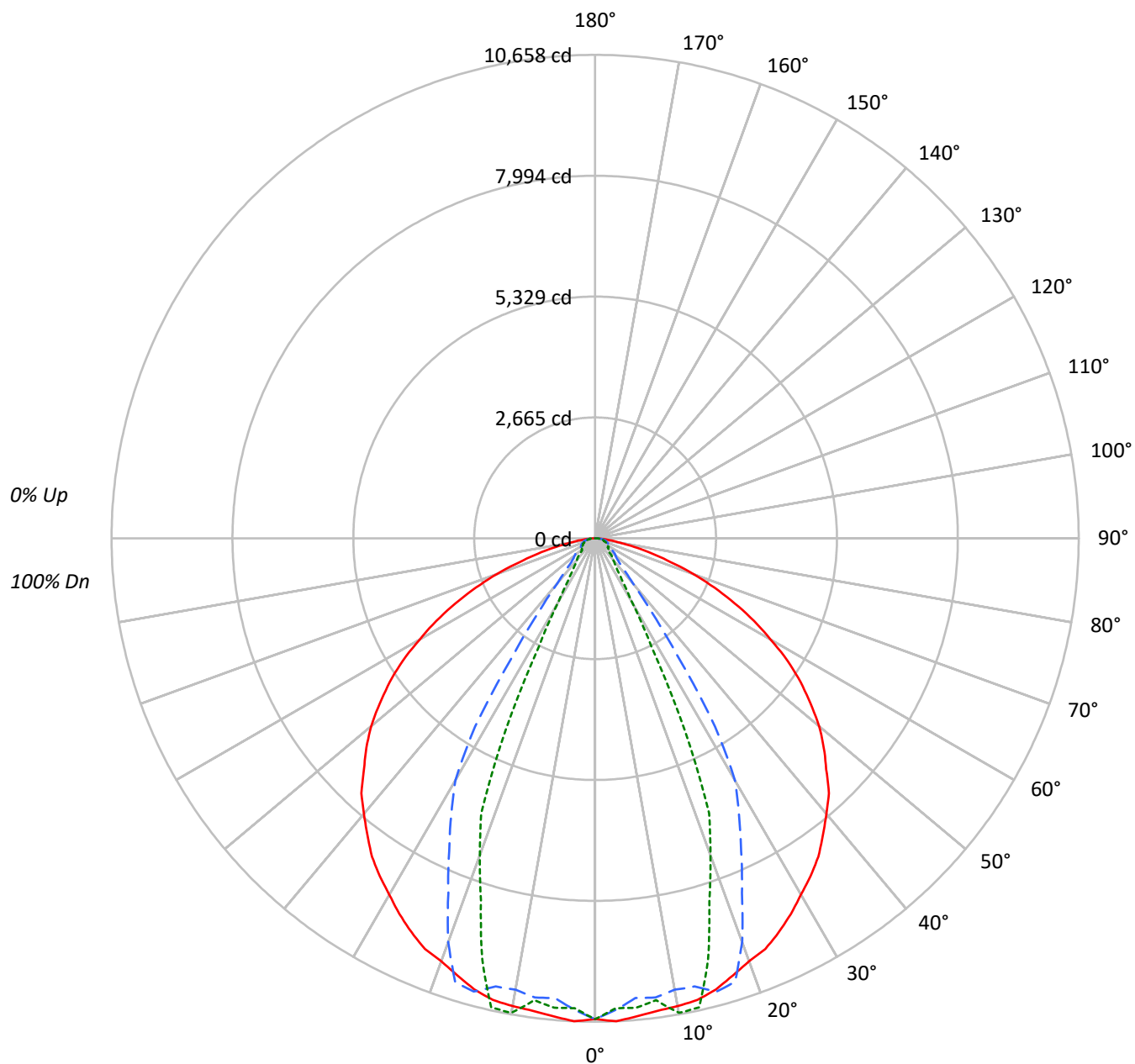
Input Watts (W): 94
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89		
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79		
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71		
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64		
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58		
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53		
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48		
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44		
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	52	46	43	41		
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	48	43	40	38		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17116	17116	17116
5°	17144	16491	16838
10°	17169	16570	17421
15°	17207	17297	16076
20°	17044	16269	12760
25°	17069	13562	8335
30°	16916	11489	2994
35°	16898	6224	1684
40°	16707	2713	1319
45°	16448	1677	1034
50°	16192	1461	976
55°	15556	1267	955
60°	14432	1135	1027
65°	12973	1283	1122
70°	10880	1379	1157
75°	8133	1573	1253
80°	5108	1827	1428
85°	3401	2290	2092



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	982.5	6.9
10°-20°	2774.4	19.5
20°-30°	3397.4	23.8
30°-40°	2668.0	18.7
40°-50°	1978.5	13.9
50°-60°	1204.4	8.5
60°-70°	721.5	5.1
70°-80°	395.8	2.8
80°-90°	128.4	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°	7154.4	50.2
0°-40°	9822.3	68.9
0°-60°	13005.3	91.3
0°-90°	14251.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14251.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10601	10601	10601	10601	10601	
5°	10578	10290	10175	10287	10389	###
15°	10294	10012	10348	9930	9618	2898
25°	9581	9611	7613	5971	4679	4411
35°	8573	7799	3158	1057	854	5349
45°	7204	5172	734	556	453	5570
55°	5526	1425	450	381	339	4918
65°	3396	420	336	316	294	3355
75°	1304	265	252	219	201	1412
85°	184	144	124	114	113	224
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10600.6	10600.6	10600.6	10600.6	10600.6
2.5°	10658.5	10514.9	10404.9	10343.4	10368.4
5°	10577.7	10289.8	10174.8	10287.0	10389.1
7.5°	10507.7	10079.8	10209.8	10219.8	10273.4
10°	10472.0	10059.8	10106.9	10329.1	10625.6
12.5°	10424.9	10106.2	10122.6	10425.6	10592.7
15°	10294.1	10011.9	10347.7	9929.8	9617.5
17.5°	10103.4	9791.9	10253.4	8796.7	8372.3
20°	9919.7	9552.5	9468.3	7835.8	7426.4
22.5°	9801.2	9516.1	8458.1	6982.0	6559.1
25°	9581.1	9611.1	7612.9	5971.1	4678.8
27.5°	9338.9	9387.5	6865.6	3982.2	2680.5
30°	9073.2	9128.9	6162.6	2353.3	1606.0
32.5°	8832.4	8518.1	4921.6	1468.1	1116.6
35°	8573.1	7798.6	3157.7	1056.6	854.5
37.5°	8246.6	7042.8	1998.9	835.9	717.3
40°	7926.5	6364.1	1287.4	713.7	625.9
42.5°	7627.2	5804.7	936.6	623.7	565.1
45°	7203.6	5172.4	734.4	556.5	452.9
47.5°	6837.0	4430.9	642.3	470.8	390.8
50°	6446.2	3387.8	581.5	418.7	388.7
52.5°	5982.6	2216.1	537.2	400.8	362.9
55°	5526.1	1425.3	450.1	380.8	339.3
57.5°	5033.1	903.7	397.2	369.3	354.3
60°	4469.4	609.4	351.5	350.0	317.9
62.5°	3947.9	500.8	339.3	335.8	300.8
65°	3395.7	420.1	335.8	315.8	293.6
67.5°	2844.1	360.1	303.7	288.6	269.3
70°	2304.7	329.4	292.2	285.8	245.0
72.5°	1750.3	271.5	259.3	242.2	203.6
75°	1303.8	265.0	252.2	219.3	200.8
77.5°	882.3	244.3	229.3	196.5	181.5
80°	549.4	224.3	196.5	172.2	153.6
82.5°	326.5	187.2	161.5	142.2	130.0
85°	183.6	144.3	123.6	113.6	112.9
87.5°	39.3	52.1	41.4	39.3	27.8
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)