

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: P730465

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730465
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23767)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-15SE-N-UNV-L850
Description: 15000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15473.0 lumens
Efficiency: N/A
Efficacy: 164.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

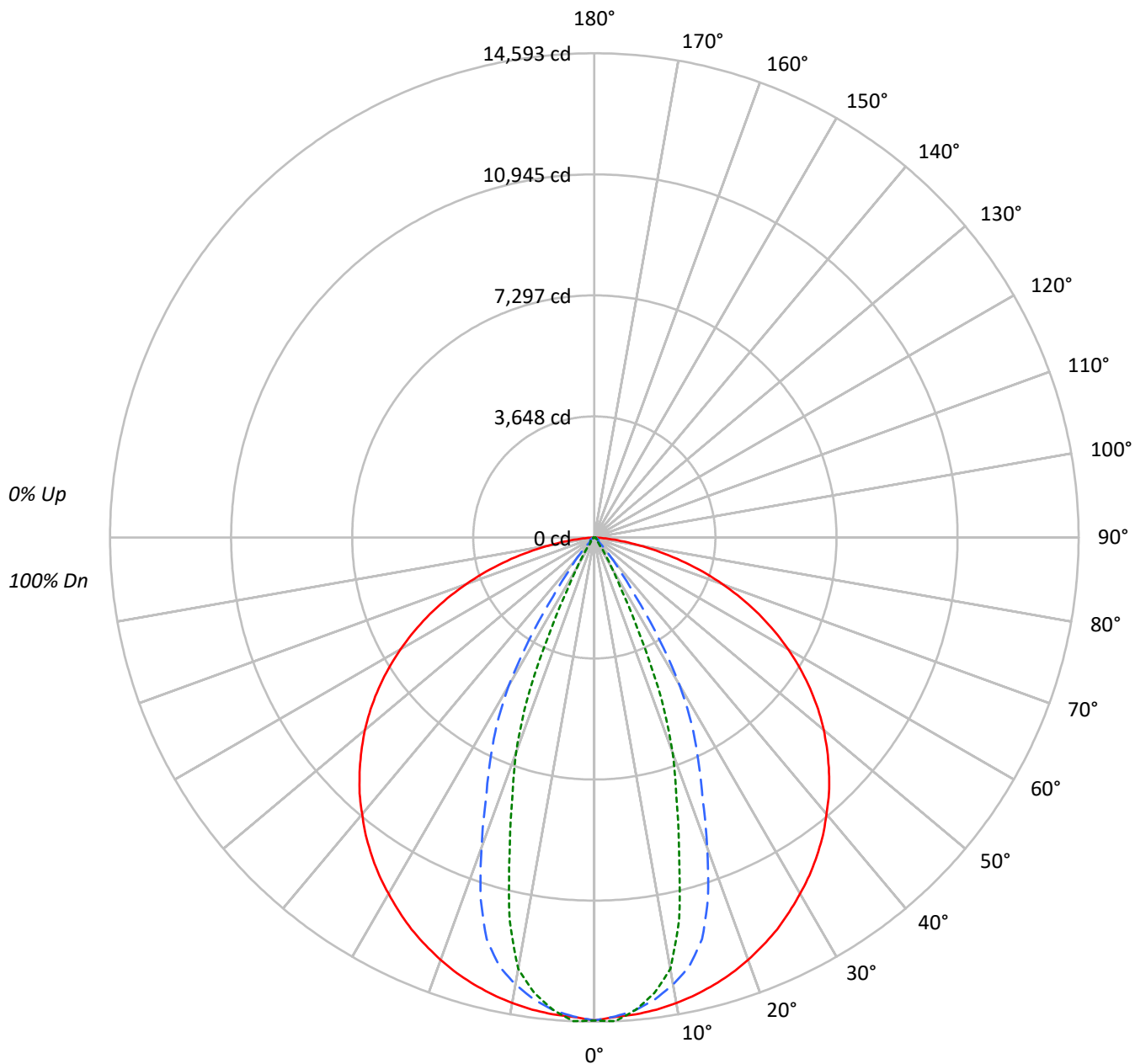
Input Watts (W): 94
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P730465

CATALOG NUMBER: HBLED-LD5-15SE-N-UNV-L850

Luminous Intensity Polar Plot





TEST NUMBER: P730465

CATALOG NUMBER: HBLED-LD5-15SE-N-UNV-L850

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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90		
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81		
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73		
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66		
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60		
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55		
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51		
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47		
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44		
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23505	23505	23505
5°	23379	23172	23162
10°	23364	22430	21643
15°	23331	20955	16471
20°	23277	17082	11856
25°	23218	13208	5840
30°	23115	9599	1894
35°	23061	4259	487
40°	22940	1730	328
45°	22837	485	349
50°	22659	344	388
55°	22333	409	166
60°	21781	456	101
65°	20886	291	119
70°	19403	258	147
75°	16974	195	203
80°	12691	238	290
85°	6286	308	383



TEST NUMBER: P730465

CATALOG NUMBER: HBLED-LD5-15SE-N-UNV-L850

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1351.0	8.7
10°-20°	3378.1	21.8
20°-30°	3659.0	23.6
30°-40°	2709.7	17.5
40°-50°	1951.6	12.6
50°-60°	1208.4	7.8
60°-70°	743.2	4.8
70°-80°	391.8	2.5
80°-90°	80.2	0.5
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°	8388.1	54.2
0°-40°	11097.8	71.7
0°-60°	14257.8	92.1
0°-90°	15473.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15473.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14558	14558	14558	14558	14558	
5°	14425	14478	14297	14308	14291	###
15°	13958	13634	12536	10661	9854	3940
25°	13033	11938	7414	4664	3278	6005
35°	11700	8248	2161	508	247	7319
45°	10002	4647	213	154	153	7713
55°	7934	957	145	132	59	7082
65°	5467	101	76	48	31	5394
75°	2721	24	31	41	32	2874
85°	339	9	17	25	21	513
90°	0	0	0	0	0	



TEST NUMBER: P730465

CATALOG NUMBER: HBLED-LD5-15SE-N-UNV-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14557.7	14557.7	14557.7	14557.7	14557.7
2.5°	14464.2	14556.4	14447.6	14528.7	14593.0
5°	14424.7	14478.1	14297.3	14307.7	14291.1
7.5°	14355.5	14343.0	14039.0	13906.0	13847.9
10°	14250.9	14168.5	13681.0	13403.3	13201.0
12.5°	14115.9	13931.7	13234.3	12351.3	11802.8
15°	13958.0	13633.9	12536.2	10660.9	9854.0
17.5°	13769.6	13310.5	11394.9	8935.0	8214.8
20°	13547.3	12949.6	9942.0	7601.9	6900.4
22.5°	13299.3	12510.6	8530.6	6318.0	5317.3
25°	13032.7	11937.9	7414.2	4664.2	3278.4
27.5°	12724.6	11201.7	6367.1	2747.3	1673.2
30°	12398.4	10315.2	5148.9	1477.8	1016.0
32.5°	12069.4	9310.4	3643.4	923.1	576.2
35°	11699.7	8248.0	2160.7	508.3	247.3
37.5°	11313.9	7274.4	1277.0	231.3	158.6
40°	10883.8	6384.5	820.6	153.7	155.8
42.5°	10468.3	5554.8	461.9	151.6	154.4
45°	10001.5	4646.9	212.6	153.7	153.0
47.5°	9518.8	3705.7	137.8	155.1	155.1
50°	9020.9	2649.7	137.1	158.6	154.4
52.5°	8495.3	1653.1	142.7	157.9	126.7
55°	7933.6	957.1	145.4	131.6	58.9
57.5°	7351.9	564.4	146.8	75.5	33.3
60°	6745.2	312.3	141.3	56.1	31.2
62.5°	6119.9	148.9	111.5	52.7	30.4
65°	5466.8	101.1	76.2	48.4	31.2
67.5°	4788.9	78.2	60.2	45.7	31.9
70°	4110.2	58.2	54.7	45.7	31.2
72.5°	3420.4	39.5	45.7	46.4	31.2
75°	2720.9	23.6	31.2	40.9	32.5
77.5°	2027.7	14.5	24.2	42.2	39.5
80°	1364.9	12.4	25.6	39.5	31.2
82.5°	801.3	11.1	25.0	30.4	25.0
85°	339.3	9.0	16.6	25.0	20.7
87.5°	63.7	7.6	13.2	20.1	18.0
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)