

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: P730381

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730381
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-LD5-15HE-N-CL-WG-UNV-L850
Description: 15000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS, WIREGUARD & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14416.0 lumens
Efficiency: N/A
Efficacy: 158.1 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

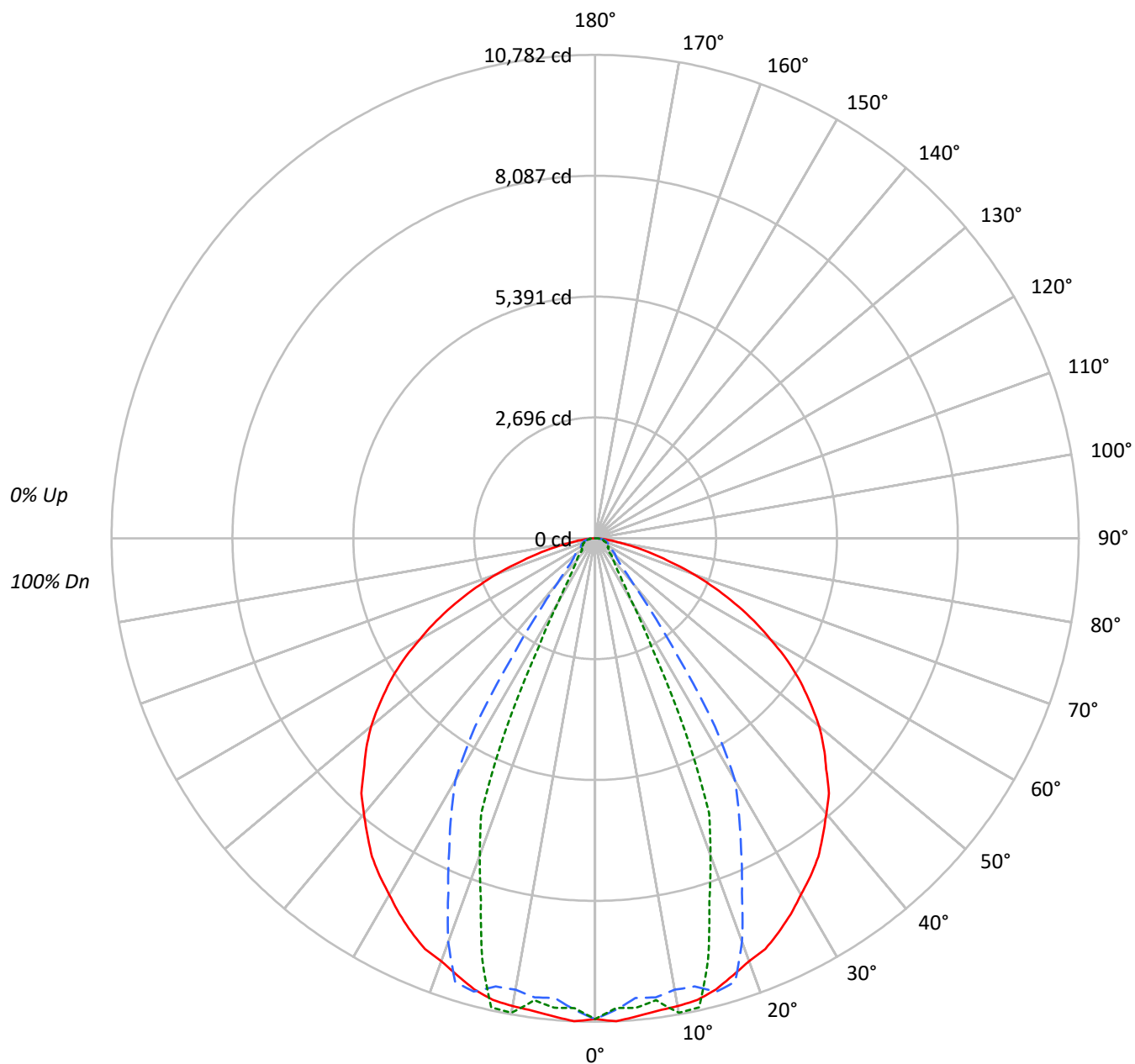
Input Watts (W): 91.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	17314	17314	17314
5°	17342	16682	17033
10°	17368	16762	17622
15°	17406	17497	16262
20°	17242	16457	12908
25°	17266	13720	8432
30°	17112	11622	3029
35°	17094	6296	1704
40°	16900	2745	1334
45°	16639	1696	1046
50°	16380	1478	988
55°	15736	1282	966
60°	14600	1148	1039
65°	13123	1298	1135
70°	11006	1395	1170
75°	8228	1591	1267
80°	5168	1848	1444
85°	3442	2316	2116



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	993.9	6.9
10°-20°	2806.6	19.5
20°-30°	3436.7	23.8
30°-40°	2698.9	18.7
40°-50°	2001.4	13.9
50°-60°	1218.4	8.5
60°-70°	729.8	5.1
70°-80°	400.4	2.8
80°-90°	129.9	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°	7237.2	50.2
0°-40°	9936.1	68.9
0°-60°	13155.8	91.3
0°-90°	14416.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14416.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10723	10723	10723	10723	10723	
5°	10700	10409	10293	10406	10509	###
15°	10413	10128	10468	10045	9729	2932
25°	9692	9722	7701	6040	4733	4462
35°	8672	7889	3194	1069	864	5411
45°	7287	5232	743	563	458	5635
55°	5590	1442	455	385	343	4975
65°	3435	425	340	319	297	3394
75°	1319	268	255	222	203	1428
85°	186	146	125	115	114	227
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10723.4	10723.4	10723.4	10723.4	10723.4
2.5°	10781.9	10636.6	10525.3	10463.2	10488.4
5°	10700.2	10408.9	10292.6	10406.1	10509.4
7.5°	10629.4	10196.5	10328.0	10338.2	10392.3
10°	10593.3	10176.3	10223.9	10448.7	10748.6
12.5°	10545.6	10223.2	10239.8	10546.3	10715.4
15°	10413.3	10127.8	10467.5	10044.7	9728.9
17.5°	10220.3	9905.2	10372.1	8898.5	8469.3
20°	10034.6	9663.1	9577.9	7926.5	7512.4
22.5°	9914.7	9626.3	8556.0	7062.9	6635.0
25°	9692.1	9722.4	7701.1	6040.3	4732.9
27.5°	9447.1	9496.2	6945.1	4028.3	2711.5
30°	9178.2	9234.6	6233.9	2380.5	1624.6
32.5°	8934.7	8616.7	4978.6	1485.1	1129.6
35°	8672.4	7888.9	3194.3	1068.9	864.4
37.5°	8342.1	7124.3	2022.1	845.5	725.6
40°	8018.3	6437.8	1302.3	722.0	633.1
42.5°	7715.5	5871.9	947.5	630.9	571.7
45°	7287.0	5232.3	742.9	562.9	458.2
47.5°	6916.2	4482.2	649.7	476.3	395.3
50°	6520.9	3427.0	588.3	423.5	393.2
52.5°	6051.8	2241.8	543.4	405.4	367.1
55°	5590.1	1441.8	455.3	385.2	343.3
57.5°	5091.4	914.2	401.8	373.6	358.4
60°	4521.2	616.4	355.6	354.1	321.6
62.5°	3993.6	506.6	343.3	339.7	304.3
65°	3435.0	424.9	339.7	319.4	297.0
67.5°	2877.0	364.3	307.2	291.9	272.4
70°	2331.4	333.2	295.6	289.1	247.9
72.5°	1770.6	274.6	262.3	245.0	206.0
75°	1318.9	268.1	255.1	221.8	203.1
77.5°	892.5	247.2	232.0	198.8	183.6
80°	555.8	226.9	198.8	174.2	155.3
82.5°	330.3	189.3	163.3	143.8	131.5
85°	185.8	146.0	125.0	114.9	114.2
87.5°	39.8	52.8	41.9	39.8	28.2
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)