

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: P730525

Luminaire Tested: **HBLED-LD5-18HE-N-CL-WG-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730525
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-LD5-18HE-N-CL-WG-UNV-L850
Description: 18000 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: 17237.0 lumens
Efficiency: N/A
Efficacy: 156.4 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

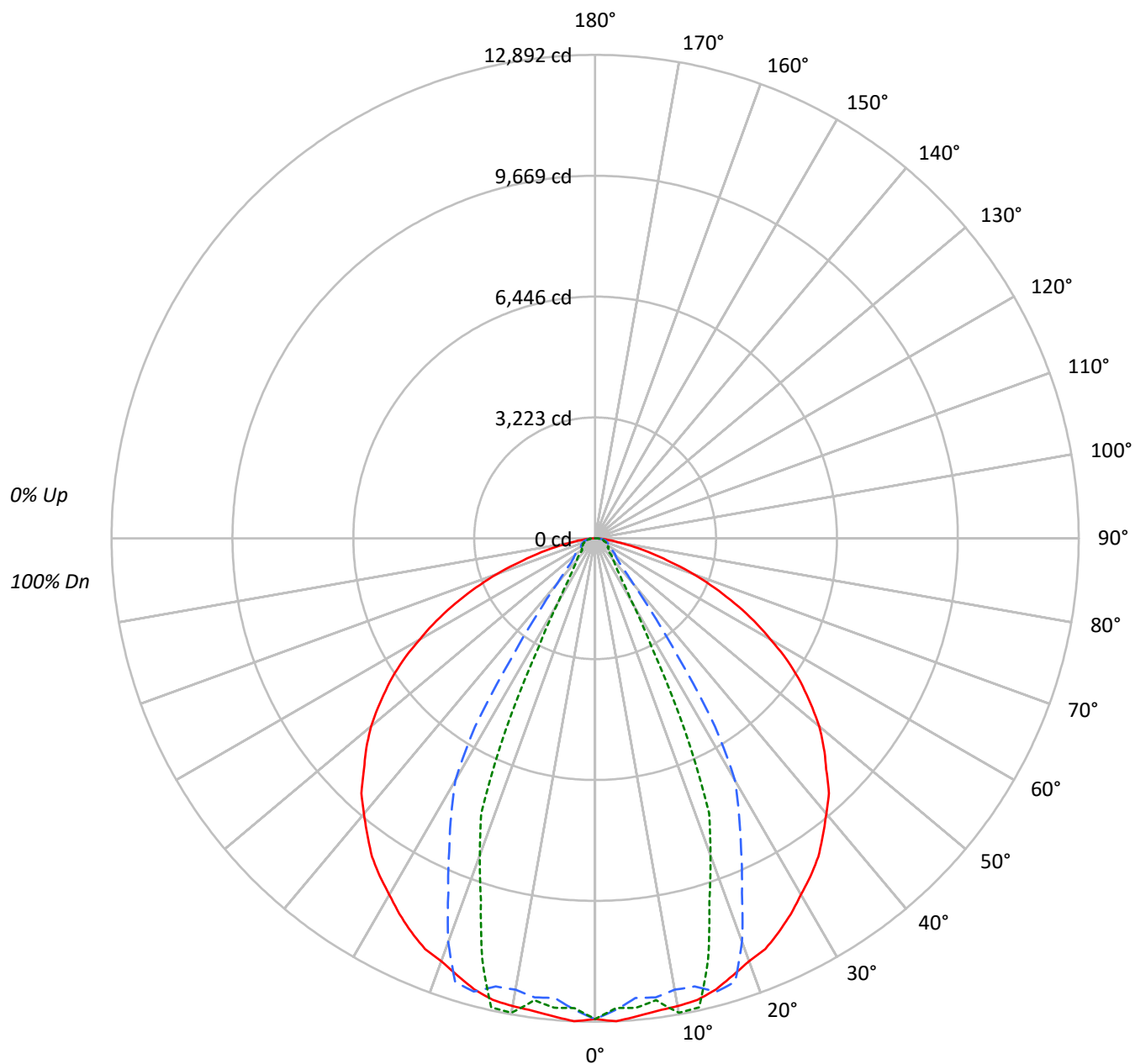
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	20702	20702	20702
5°	20736	19946	20366
10°	20766	20042	21071
15°	20813	20921	19445
20°	20615	19677	15434
25°	20645	16404	10082
30°	20460	13897	3622
35°	20439	7528	2037
40°	20207	3282	1596
45°	19895	2028	1251
50°	19585	1767	1181
55°	18815	1532	1155
60°	17457	1373	1242
65°	15691	1551	1357
70°	13160	1668	1399
75°	9838	1903	1515
80°	6179	2209	1727
85°	4114	2770	2529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1188.4	6.9
10°-20°	3355.8	19.5
20°-30°	4109.2	23.8
30°-40°	3227.0	18.7
40°-50°	2393.0	13.9
50°-60°	1456.8	8.5
60°-70°	872.6	5.1
70°-80°	478.8	2.8
80°-90°	155.3	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°	8653.4	50.2
0°-40°	11880.4	68.9
0°-60°	15730.3	91.3
0°-90°	17237.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17237.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12822	12822	12822	12822	12822	
5°	12794	12446	12307	12442	12566	###
15°	12451	12110	12516	12010	11633	3506
25°	11589	11625	9208	7222	5659	5335
35°	10369	9433	3819	1278	1034	6470
45°	8713	6256	888	673	548	6738
55°	6684	1724	544	461	410	5948
65°	4107	508	406	382	355	4058
75°	1577	321	305	265	243	1708
85°	222	175	150	137	136	271
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12821.8	12821.8	12821.8	12821.8	12821.8
2.5°	12891.7	12718.0	12585.0	12510.7	12540.9
5°	12794.1	12445.8	12306.7	12442.4	12566.0
7.5°	12709.4	12191.8	12349.1	12361.2	12426.0
10°	12666.2	12167.6	12224.6	12493.3	12852.0
12.5°	12609.2	12223.8	12243.6	12610.0	12812.2
15°	12451.1	12109.7	12515.9	12010.4	11632.7
17.5°	12220.3	11843.6	12401.8	10639.8	10126.6
20°	11998.2	11554.1	11452.1	9477.6	8982.5
22.5°	11854.8	11510.0	10230.3	8445.0	7933.4
25°	11588.7	11624.9	9208.0	7222.2	5659.1
27.5°	11295.7	11354.5	8304.2	4816.6	3242.1
30°	10974.3	11041.7	7453.8	2846.4	1942.6
32.5°	10683.1	10302.8	5952.9	1775.8	1350.6
35°	10369.4	9432.7	3819.4	1278.0	1033.5
37.5°	9974.5	8518.4	2417.8	1011.0	867.6
40°	9587.4	7697.5	1557.1	863.2	757.0
42.5°	9225.3	7021.0	1132.9	754.4	683.6
45°	8712.9	6256.2	888.3	673.1	547.8
47.5°	8269.6	5359.3	776.8	569.5	472.7
50°	7796.9	4097.7	703.4	506.4	470.1
52.5°	7236.1	2680.4	649.8	484.8	438.9
55°	6684.0	1723.9	544.4	460.6	410.4
57.5°	6087.7	1093.1	480.5	446.7	428.6
60°	5405.9	737.1	425.2	423.4	384.5
62.5°	4775.1	605.7	410.4	406.1	363.8
65°	4107.1	508.1	406.1	381.9	355.1
67.5°	3440.0	435.5	367.3	349.1	325.7
70°	2787.7	398.4	353.4	345.7	296.4
72.5°	2117.1	328.3	313.7	293.0	246.3
75°	1577.0	320.6	305.0	265.3	242.8
77.5°	1067.2	295.5	277.4	237.6	219.5
80°	664.5	271.3	237.6	208.3	185.7
82.5°	394.9	226.4	195.3	172.0	157.2
85°	222.1	174.6	149.5	137.4	136.5
87.5°	47.5	63.1	50.1	47.5	33.7
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)