

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: P730566

Luminaire Tested: **HBLED-LD5-18HE-W-CLI-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730566
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23766)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-W-CLI-UNV-L840
Description: 18000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS
INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17706.0 lumens
Efficiency: N/A
Efficacy: 160.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

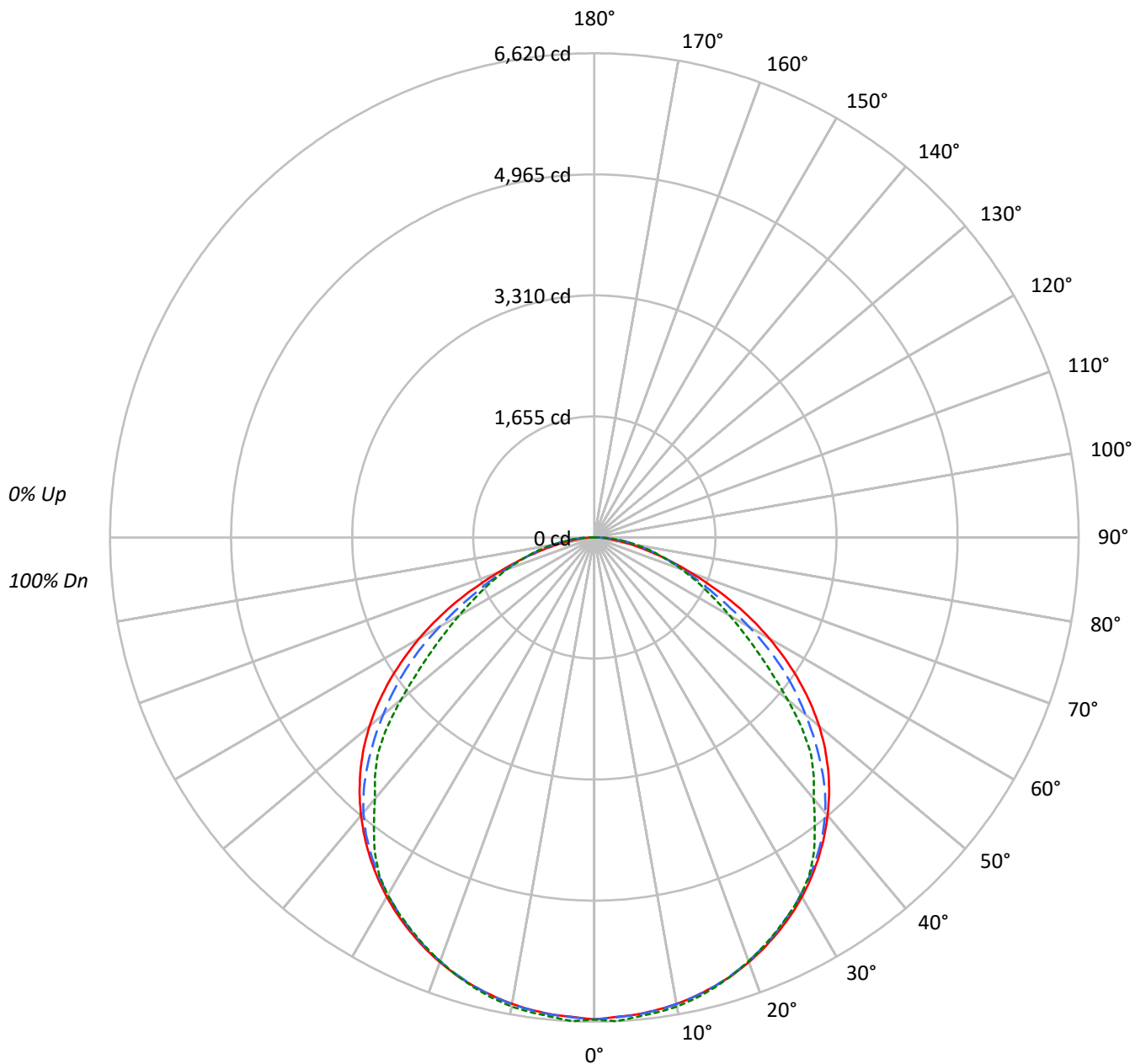
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10640	10640	10640
5°	10612	10620	10667
10°	10618	10623	10679
15°	10619	10618	10643
20°	10617	10592	10595
25°	10600	10561	10548
30°	10583	10520	10526
35°	10534	10468	10320
40°	10459	10352	9830
45°	10326	9995	9558
50°	10077	9463	8657
55°	9619	8850	7654
60°	8926	7897	6903
65°	7934	6837	6348
70°	6584	6110	5983
75°	5326	5592	5661
80°	4230	5348	5326
85°	3312	5745	5482



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	625.0	3.5
10°-20°	1797.7	10.2
20°-30°	2741.2	15.5
30°-40°	3316.5	18.7
40°-50°	3359.3	19.0
50°-60°	2776.5	15.7
60°-70°	1833.8	10.4
70°-80°	956.2	5.4
80°-90°	299.8	1.7
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°	5163.9	29.2
0°-40°	8480.4	47.9
0°-60°	14616.2	82.5
0°-90°	17706.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17706.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6590	6590	6590	6590	6590	
5°	6548	6587	6552	6581	6582	623
15°	6353	6385	6352	6372	6367	1794
25°	5950	5974	5928	5943	5921	2744
35°	5344	5351	5311	5304	5236	3343
45°	4522	4510	4377	4241	4186	3482
55°	3417	3366	3144	2839	2719	3046
65°	2077	2017	1790	1673	1662	2051
75°	854	869	896	908	908	930
85°	179	230	310	308	296	217
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6590.2	6590.2	6590.2	6590.2	6590.2
2.5°	6562.6	6601.3	6568.9	6597.4	6620.3
5°	6547.5	6587.1	6552.3	6580.8	6581.6
7.5°	6518.3	6557.8	6522.2	6550.7	6549.9
10°	6476.3	6513.6	6479.5	6513.6	6513.6
12.5°	6419.4	6455.8	6422.6	6454.2	6449.4
15°	6353.0	6385.4	6352.2	6371.9	6367.2
17.5°	6274.6	6303.9	6266.7	6283.3	6273.8
20°	6178.9	6205.8	6164.7	6186.0	6166.2
22.5°	6071.2	6096.6	6054.6	6070.5	6048.3
25°	5950.3	5974.0	5928.1	5943.1	5921.0
27.5°	5819.7	5841.0	5789.6	5807.9	5790.4
30°	5676.5	5686.8	5642.5	5666.2	5645.7
32.5°	5516.7	5523.0	5484.2	5505.6	5470.8
35°	5344.2	5351.3	5311.0	5303.9	5235.8
37.5°	5159.9	5163.0	5125.1	5061.0	4948.6
40°	4962.1	4960.5	4911.5	4763.5	4663.8
42.5°	4750.8	4750.1	4663.8	4495.3	4438.4
45°	4522.2	4510.4	4377.4	4241.3	4185.9
47.5°	4277.0	4264.3	4078.4	3970.0	3844.2
50°	4011.9	3989.8	3767.4	3619.5	3446.3
52.5°	3726.3	3692.3	3466.0	3227.1	3063.3
55°	3417.0	3366.3	3144.1	2838.7	2719.2
57.5°	3095.0	3019.8	2803.8	2506.4	2409.1
60°	2764.3	2680.4	2445.4	2201.0	2137.7
62.5°	2424.1	2341.0	2101.3	1917.0	1882.1
65°	2076.8	2016.6	1789.6	1673.3	1661.5
67.5°	1720.7	1699.4	1526.1	1466.8	1462.0
70°	1394.8	1390.8	1294.3	1264.2	1267.4
72.5°	1114.8	1110.0	1095.8	1080.7	1081.5
75°	853.7	868.7	896.4	908.2	907.5
77.5°	636.9	667.8	726.3	750.0	746.0
80°	454.9	500.8	575.2	597.3	572.8
82.5°	303.0	351.3	439.1	442.2	422.5
85°	178.8	230.2	310.1	307.8	295.9
87.5°	88.6	138.4	185.9	178.0	170.1
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)