

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: P730567

Luminaire Tested: **HBLED-LD5-18HE-W-CLI-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730567
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-L850
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: 18053.0 lumens
Efficiency: N/A
Efficacy: 163.8 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

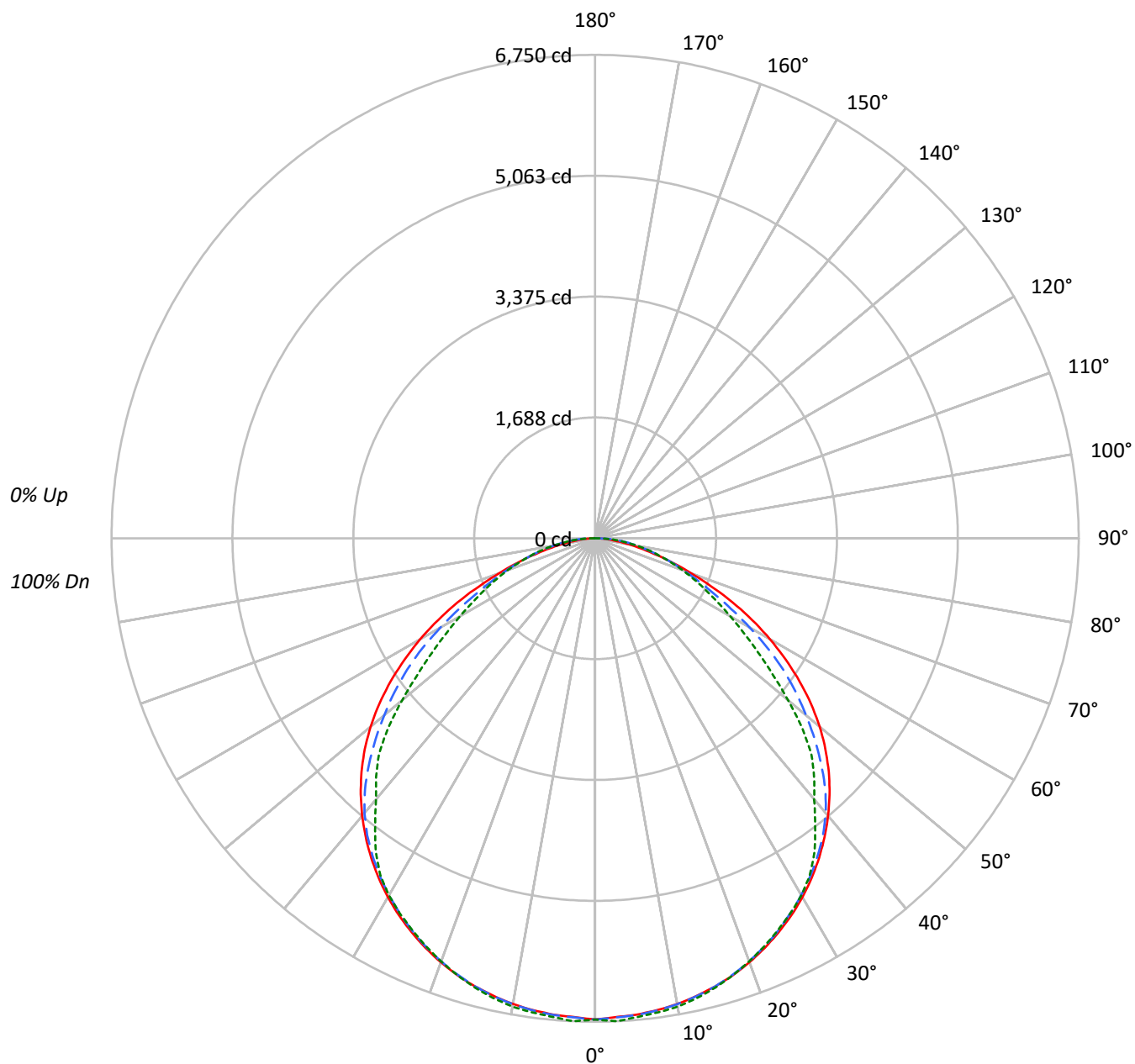
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85		
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71		
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61		
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52		
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45		
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40		
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35		
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31		
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28		
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10849	10849	10849
5°	10820	10828	10876
10°	10826	10831	10888
15°	10827	10826	10852
20°	10825	10800	10802
25°	10808	10768	10755
30°	10790	10726	10732
35°	10740	10673	10522
40°	10664	10555	10023
45°	10528	10191	9745
50°	10275	9649	8826
55°	9807	9024	7804
60°	9101	8051	7038
65°	8090	6971	6472
70°	6713	6230	6100
75°	5430	5701	5772
80°	4312	5453	5430
85°	3377	5858	5589



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	637.2	3.5
10°-20°	1833.0	10.2
20°-30°	2794.9	15.5
30°-40°	3381.4	18.7
40°-50°	3425.1	19.0
50°-60°	2830.9	15.7
60°-70°	1869.8	10.4
70°-80°	975.0	5.4
80°-90°	305.7	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°	5265.1	29.2
0°-40°	8646.6	47.9
0°-60°	14902.6	82.5
0°-90°	18053.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18053.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6719	6719	6719	6719	6719	
5°	6676	6716	6681	6710	6711	635
15°	6478	6510	6477	6497	6492	1829
25°	6067	6091	6044	6060	6037	2797
35°	5449	5456	5415	5408	5338	3408
45°	4611	4599	4463	4324	4268	3550
55°	3484	3432	3206	2894	2772	3105
65°	2118	2056	1825	1706	1694	2091
75°	870	886	914	926	925	948
85°	182	235	316	314	302	221
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6719.4	6719.4	6719.4	6719.4	6719.4
2.5°	6691.2	6730.7	6697.6	6726.7	6750.1
5°	6675.8	6716.2	6680.7	6709.8	6710.6
7.5°	6646.1	6686.4	6650.0	6679.1	6678.3
10°	6603.2	6641.2	6606.5	6641.2	6641.2
12.5°	6545.2	6582.3	6548.5	6580.7	6575.8
15°	6477.5	6510.5	6476.7	6496.8	6492.0
17.5°	6397.6	6427.5	6389.5	6406.4	6396.8
20°	6300.0	6327.4	6285.5	6307.3	6287.0
22.5°	6190.2	6216.0	6173.3	6189.5	6166.8
25°	6066.9	6091.1	6044.3	6059.6	6037.0
27.5°	5933.7	5955.5	5903.1	5921.7	5903.9
30°	5787.7	5798.2	5753.1	5777.3	5756.3
32.5°	5624.8	5631.3	5591.7	5613.5	5578.0
35°	5448.9	5456.2	5415.1	5407.8	5338.4
37.5°	5261.0	5264.2	5225.5	5160.1	5045.6
40°	5059.4	5057.8	5007.7	4856.9	4755.2
42.5°	4843.9	4843.2	4755.2	4583.4	4525.3
45°	4610.8	4598.8	4463.2	4324.5	4268.0
47.5°	4360.8	4347.9	4158.3	4047.8	3919.5
50°	4090.6	4068.0	3841.3	3690.4	3513.8
52.5°	3799.3	3764.6	3534.0	3290.3	3123.4
55°	3483.9	3432.3	3205.7	2894.3	2772.5
57.5°	3155.7	3079.0	2858.8	2555.5	2456.3
60°	2818.5	2732.9	2493.3	2244.1	2179.6
62.5°	2471.6	2386.9	2142.5	1954.5	1919.0
65°	2117.5	2056.1	1824.6	1706.1	1694.0
67.5°	1754.5	1732.7	1556.0	1495.6	1490.7
70°	1422.1	1418.1	1319.7	1289.0	1292.2
72.5°	1136.6	1131.7	1117.3	1101.9	1102.7
75°	870.4	885.7	913.9	926.0	925.3
77.5°	649.4	680.8	740.5	764.7	760.6
80°	463.8	510.6	586.5	609.1	584.0
82.5°	308.9	358.1	447.7	450.9	430.7
85°	182.3	234.7	316.2	313.8	301.7
87.5°	90.3	141.2	189.6	181.5	173.4
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)