

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: P730585

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730585
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33336)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-W-WG-UNV-L850
Description: 18000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND WIREGUARD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18404.0 lumens
Efficiency: N/A
Efficacy: 167.0 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

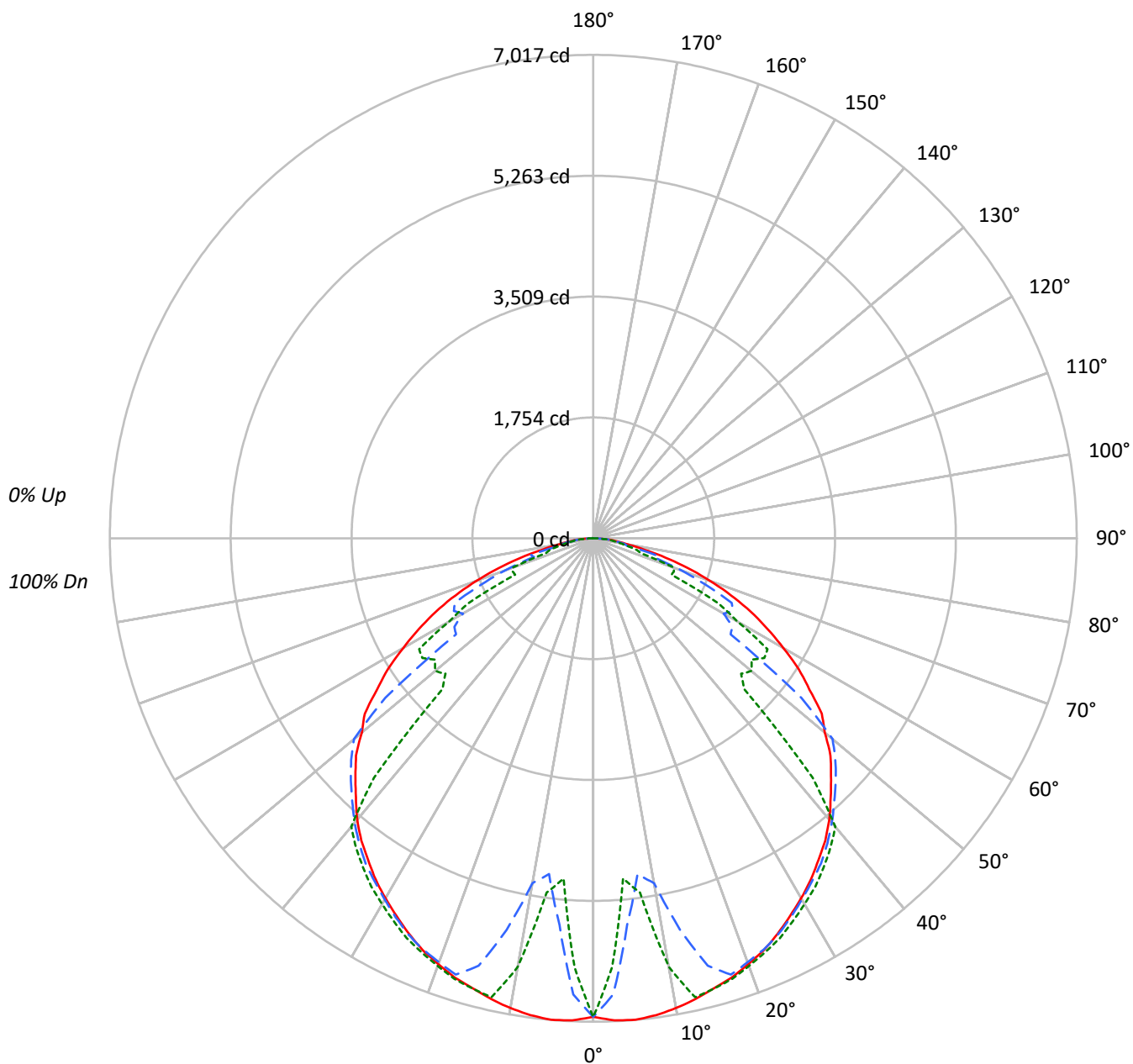
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	99	96	98	95	93	95	92	90	91	89	87	85		
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52		
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39		
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35		
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31		
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28		
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11216	11216	11216
5°	11372	9136	8035
10°	11353	8332	10363
15°	11302	10739	11312
20°	11303	11251	11351
25°	11282	11307	11411
30°	11250	11287	11432
35°	11232	11356	11489
40°	11233	11356	11519
45°	11145	11363	7062
50°	11019	11386	7526
55°	10787	6847	8530
60°	10290	7057	7811
65°	9641	8473	4779
70°	8513	6419	5858
75°	6784	5835	4063
80°	4673	4217	3491
85°	4478	3892	3694



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	555.5	3.0
10°-20°	1740.3	9.5
20°-30°	2863.2	15.6
30°-40°	3600.1	19.6
40°-50°	3530.8	19.2
50°-60°	2925.5	15.9
60°-70°	2063.4	11.2
70°-80°	900.2	4.9
80°-90°	224.9	1.2
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°	5159.1	28.0
0°-40°	8759.2	47.6
0°-60°	15215.4	82.7
0°-90°	18404.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18404.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6947	6947	6947	6947	6947	
5°	7017	6531	5637	5111	4957	666
15°	6762	4696	6424	6788	6768	1912
25°	6333	5795	6347	6390	6405	2919
35°	5698	5695	5762	5800	5829	3570
45°	4881	4896	4976	4408	3093	3768
55°	3832	3957	2432	2765	3030	3428
65°	2524	2672	2218	1706	1251	2481
75°	1087	1066	935	611	651	1166
85°	242	215	210	201	199	251
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6946.9	6946.9	6946.9	6946.9	6946.9
2.5°	7004.2	6858.9	6627.9	6337.2	6234.2
5°	7016.7	6530.7	5636.9	5111.1	4957.4
7.5°	6981.0	5935.1	4914.3	5024.7	5187.5
10°	6924.5	5411.8	5082.1	5979.2	6320.6
12.5°	6852.2	4946.7	5822.1	6754.2	6822.3
15°	6761.6	4695.8	6424.4	6788.3	6767.5
17.5°	6685.2	4842.8	6640.4	6720.1	6705.1
20°	6578.1	5136.1	6548.2	6612.1	6606.3
22.5°	6470.1	5483.2	6460.9	6506.7	6506.7
25°	6333.1	5794.8	6347.1	6389.6	6405.3
27.5°	6182.7	5974.2	6205.1	6240.0	6268.2
30°	6034.0	6000.0	6054.0	6098.8	6132.0
32.5°	5877.0	5863.7	5906.1	5953.4	5995.8
35°	5698.4	5695.1	5761.5	5799.7	5828.9
37.5°	5530.6	5519.0	5580.4	5633.6	5656.0
40°	5329.6	5329.6	5387.7	5441.7	5465.0
42.5°	5100.3	5132.8	5177.6	5233.2	4713.2
45°	4881.0	4896.0	4976.5	4407.6	3092.6
47.5°	4670.0	4689.1	4765.6	2833.4	2910.7
50°	4386.8	4473.1	4533.0	2825.1	2996.3
52.5°	4180.0	4217.3	3805.3	2796.9	2893.2
55°	3831.9	3957.3	2432.2	2765.3	3030.3
57.5°	3534.5	3625.9	2391.5	2833.4	2997.9
60°	3186.5	3326.0	2185.5	2733.8	2418.9
62.5°	2852.5	2985.4	2281.9	2151.5	2048.4
65°	2523.6	2672.2	2217.9	1706.2	1251.0
67.5°	2163.0	2024.4	1769.3	1202.0	1265.1
70°	1803.4	1413.8	1359.8	1344.1	1241.0
72.5°	1433.7	1031.7	902.9	1008.5	721.8
75°	1087.4	1065.8	935.4	611.4	651.3
77.5°	754.2	769.2	500.9	596.4	495.0
80°	502.6	435.3	453.5	380.4	375.5
82.5°	348.1	355.5	298.2	289.0	293.3
85°	241.7	215.1	210.1	201.1	199.4
87.5°	80.5	93.9	87.3	78.9	83.9
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)