

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: P730549

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730549
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23765)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-W-AI-UNV-L850
Description: 18000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND PRISMATIC ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17140.0 lumens
Efficiency: N/A
Efficacy: 155.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

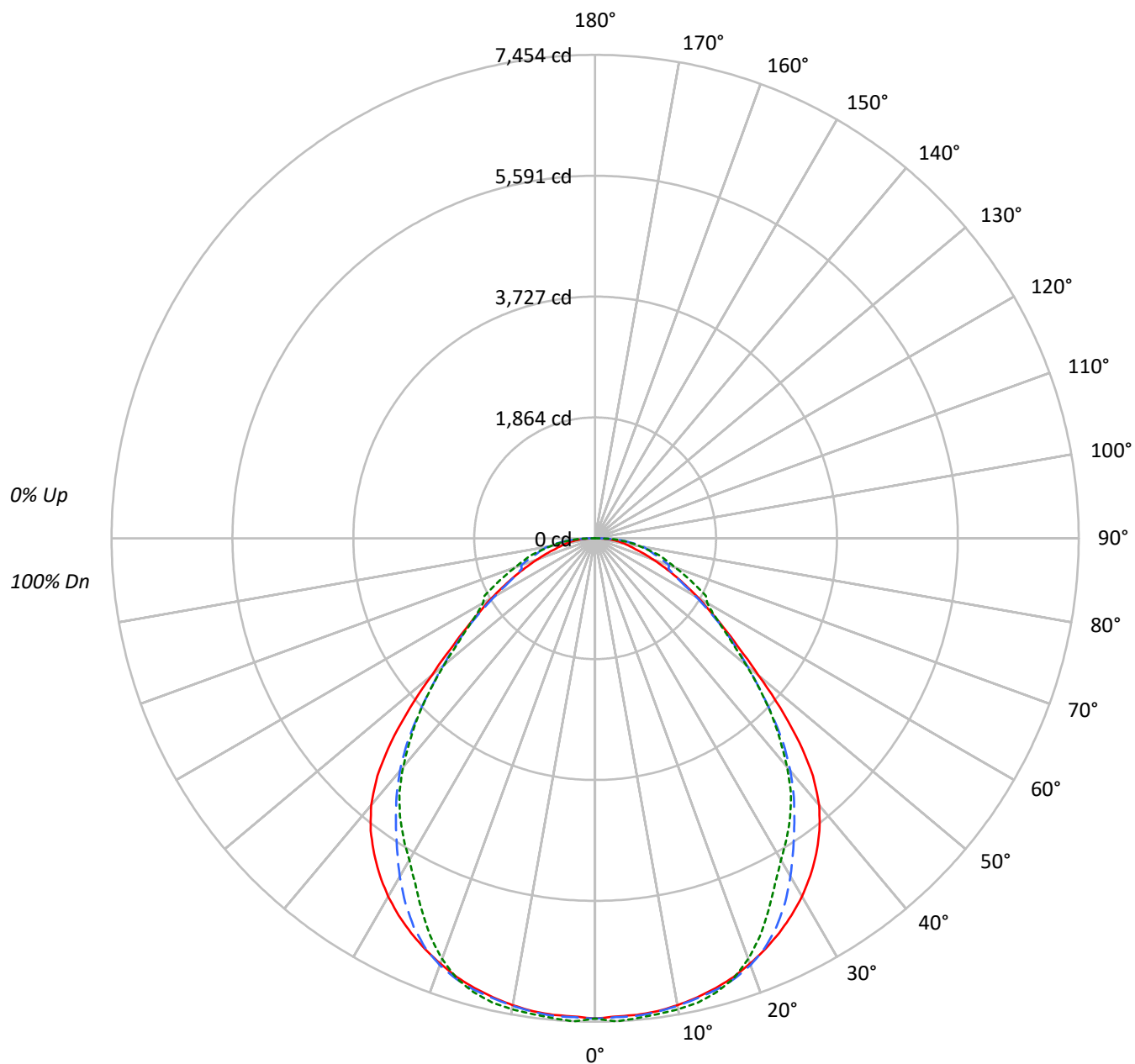
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	99	96	98	95	93	95	92	90	91	89	87
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11956	11956	11956
5°	11955	11981	12040
10°	11985	12000	12088
15°	12004	12048	12107
20°	11991	12036	11858
25°	11961	11782	11269
30°	11891	11226	10679
35°	11712	10551	10331
40°	11320	9865	9703
45°	10174	8809	8777
50°	8252	7673	7620
55°	6852	6725	6722
60°	5933	5760	6439
65°	5142	5109	6491
70°	4433	5732	6187
75°	3976	5875	6450
80°	4132	6915	6471
85°	4691	7970	7393



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	705.1	4.1
10°-20°	2036.2	11.9
20°-30°	3024.3	17.6
30°-40°	3433.4	20.0
40°-50°	3069.3	17.9
50°-60°	2122.1	12.4
60°-70°	1400.3	8.2
70°-80°	944.7	5.5
80°-90°	404.6	2.4
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°	5765.6	33.6
0°-40°	9199.0	53.7
0°-60°	14390.4	84.0
0°-90°	17140.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17140.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7405	7405	7405	7405	7405	
5°	7376	7422	7392	7423	7428	702
15°	7181	7216	7208	7248	7243	2027
25°	6714	6778	6614	6416	6326	3094
35°	5942	5817	5353	5275	5242	3705
45°	4456	4079	3858	3887	3844	3389
55°	2434	2222	2389	2355	2388	2211
65°	1346	1195	1337	1564	1699	1343
75°	637	802	942	1006	1034	696
85°	253	352	430	433	399	264
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7405.0	7405.0	7405.0	7405.0	7405.0
2.5°	7379.9	7426.0	7391.6	7423.5	7454.5
5°	7376.5	7421.8	7392.4	7422.6	7428.5
7.5°	7355.5	7397.4	7363.0	7392.4	7399.1
10°	7310.2	7359.7	7319.4	7364.7	7373.2
12.5°	7251.6	7301.9	7266.6	7328.7	7332.1
15°	7181.1	7215.5	7208.0	7248.2	7243.2
17.5°	7092.2	7131.7	7125.8	7135.8	7112.4
20°	6979.0	7023.4	7005.0	6958.9	6901.1
22.5°	6857.5	6911.1	6838.2	6721.6	6640.3
25°	6714.0	6777.8	6613.5	6416.4	6325.8
27.5°	6555.6	6612.6	6339.2	6097.8	6003.9
30°	6377.8	6402.1	6021.4	5791.7	5727.9
32.5°	6172.4	6137.2	5681.8	5530.1	5493.2
35°	5941.8	5816.8	5353.1	5275.2	5241.6
37.5°	5681.8	5453.0	5028.7	4992.6	4957.3
40°	5370.8	5032.8	4680.7	4657.2	4603.5
42.5°	4969.1	4575.8	4294.1	4266.4	4218.6
45°	4455.9	4078.6	3858.0	3887.4	3843.8
47.5°	3865.6	3579.7	3439.6	3520.1	3439.6
50°	3285.3	3093.3	3054.7	3127.7	3033.8
52.5°	2809.9	2637.2	2716.9	2729.4	2673.2
55°	2434.2	2222.1	2389.0	2355.4	2388.1
57.5°	2107.2	1869.9	2075.4	2036.8	2149.1
60°	1837.2	1570.6	1783.6	1775.2	1994.0
62.5°	1572.3	1359.3	1530.3	1653.6	1922.7
65°	1345.8	1194.9	1337.4	1563.9	1698.9
67.5°	1128.6	1071.6	1223.4	1349.2	1496.8
70°	939.1	968.5	1214.2	1190.7	1310.6
72.5°	779.8	879.7	1071.6	1075.8	1160.5
75°	637.3	801.7	941.7	1006.3	1033.9
77.5°	529.9	727.0	850.3	872.9	846.1
80°	444.4	640.6	743.7	733.7	695.9
82.5°	358.8	485.5	586.2	595.4	550.9
85°	253.2	352.2	430.2	432.7	399.1
87.5°	135.8	217.2	260.8	268.3	248.2
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)