

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: P730579

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730579
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-003-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-W-UNV-L850
Description: 18000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19433.0 lumens
Efficiency: N/A
Efficacy: 176.3 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.31 / 1.43
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

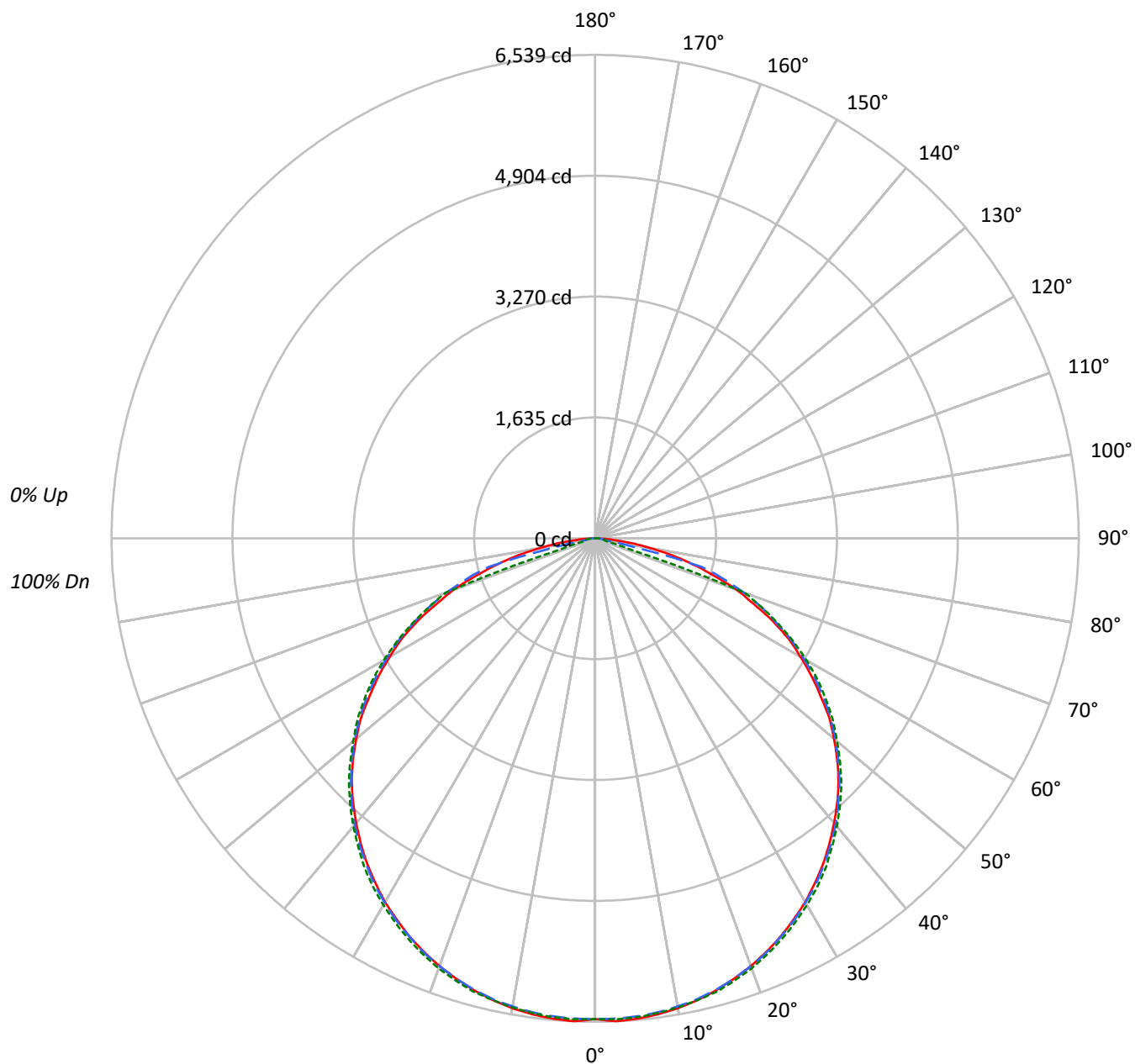
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85		
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70		
3	90	80	72	65	88	78	71	64	75	69	63	72	67	62	70	65	61	59		
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50		
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43		
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37		
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33		
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29		
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26		
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10499	10499	10499
5°	10575	10521	10539
10°	10581	10543	10564
15°	10579	10565	10613
20°	10578	10581	10636
25°	10584	10589	10653
30°	10595	10609	10679
35°	10593	10627	10716
40°	10595	10662	10720
45°	10625	10664	10750
50°	10592	10654	10723
55°	10476	10622	10737
60°	10357	10525	10656
65°	10128	10338	10416
70°	9615	10025	10148
75°	8576	9299	1120
80°	6896	1159	1225
85°	4589	1502	1530



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	617.6	3.2
10°-20°	1784.6	9.2
20°-30°	2742.0	14.1
30°-40°	3375.5	17.4
40°-50°	3598.6	18.5
50°-60°	3364.0	17.3
60°-70°	2663.0	13.7
70°-80°	1133.0	5.8
80°-90°	154.7	0.8
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°	5144.2	26.5
0°-40°	8519.7	43.8
0°-60°	15482.3	79.7
0°-90°	19433.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19433.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6503	6503	6503	6503	6503	
5°	6525	6496	6491	6465	6503	620
15°	6329	6317	6320	6303	6349	1787
25°	5941	5934	5944	5941	5980	2739
35°	5374	5366	5392	5411	5437	3363
45°	4653	4627	4670	4689	4708	3585
55°	3722	3733	3774	3787	3814	3332
65°	2651	2674	2706	2726	2726	2608
75°	1375	1434	1491	243	180	1454
85°	248	74	81	84	83	323
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6502.8	6502.8	6502.8	6502.8	6502.8
2.5°	6539.1	6508.6	6502.8	6476.8	6511.5
5°	6524.6	6495.6	6491.2	6465.2	6502.8
7.5°	6494.1	6471.0	6468.1	6440.5	6478.2
10°	6453.6	6431.9	6430.4	6405.8	6443.4
12.5°	6398.5	6379.7	6385.5	6360.9	6398.5
15°	6329.0	6317.4	6320.3	6302.9	6349.3
17.5°	6245.0	6239.2	6245.0	6231.9	6274.0
20°	6156.6	6149.4	6158.1	6150.8	6189.9
22.5°	6053.8	6045.1	6062.5	6052.3	6088.5
25°	5940.8	5933.5	5943.7	5940.8	5979.9
27.5°	5811.8	5804.6	5826.3	5827.8	5858.2
30°	5682.9	5672.8	5690.2	5697.4	5727.8
32.5°	5529.4	5526.5	5552.5	5558.3	5590.2
35°	5374.4	5365.7	5391.7	5410.6	5436.7
37.5°	5204.9	5203.4	5231.0	5246.9	5259.9
40°	5026.7	5019.5	5058.6	5074.5	5086.1
42.5°	4845.6	4829.7	4867.3	4887.6	4900.7
45°	4653.0	4626.9	4670.3	4689.2	4708.0
47.5°	4441.5	4418.3	4460.3	4480.6	4493.6
50°	4216.9	4195.2	4241.5	4258.9	4269.1
52.5°	3990.9	3969.2	4018.5	4032.9	4057.6
55°	3721.5	3733.1	3773.6	3786.7	3814.2
57.5°	3472.3	3482.5	3521.6	3537.5	3569.4
60°	3207.2	3223.2	3259.4	3275.3	3299.9
62.5°	2950.8	2952.3	2995.7	3003.0	3021.8
65°	2651.0	2674.1	2706.0	2726.3	2726.3
67.5°	2316.3	2372.8	2427.9	2423.5	2435.1
70°	2036.8	2058.5	2123.7	2133.8	2149.7
72.5°	1686.2	1742.7	1815.1	1355.9	460.7
75°	1374.7	1434.1	1490.6	243.4	179.6
77.5°	1067.6	1114.0	495.4	139.1	136.2
80°	741.7	815.6	124.6	127.5	131.8
82.5°	488.2	398.4	102.9	113.0	114.4
85°	247.7	73.9	81.1	84.0	82.6
87.5°	81.1	44.9	46.4	47.8	49.3
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)