

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: P730543

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730543
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23761)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-W-A-UNV-L850
Description: 18000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND PRISMATIC ACRYLIC LENS & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17081.0 lumens
Efficiency: N/A
Efficacy: 155.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

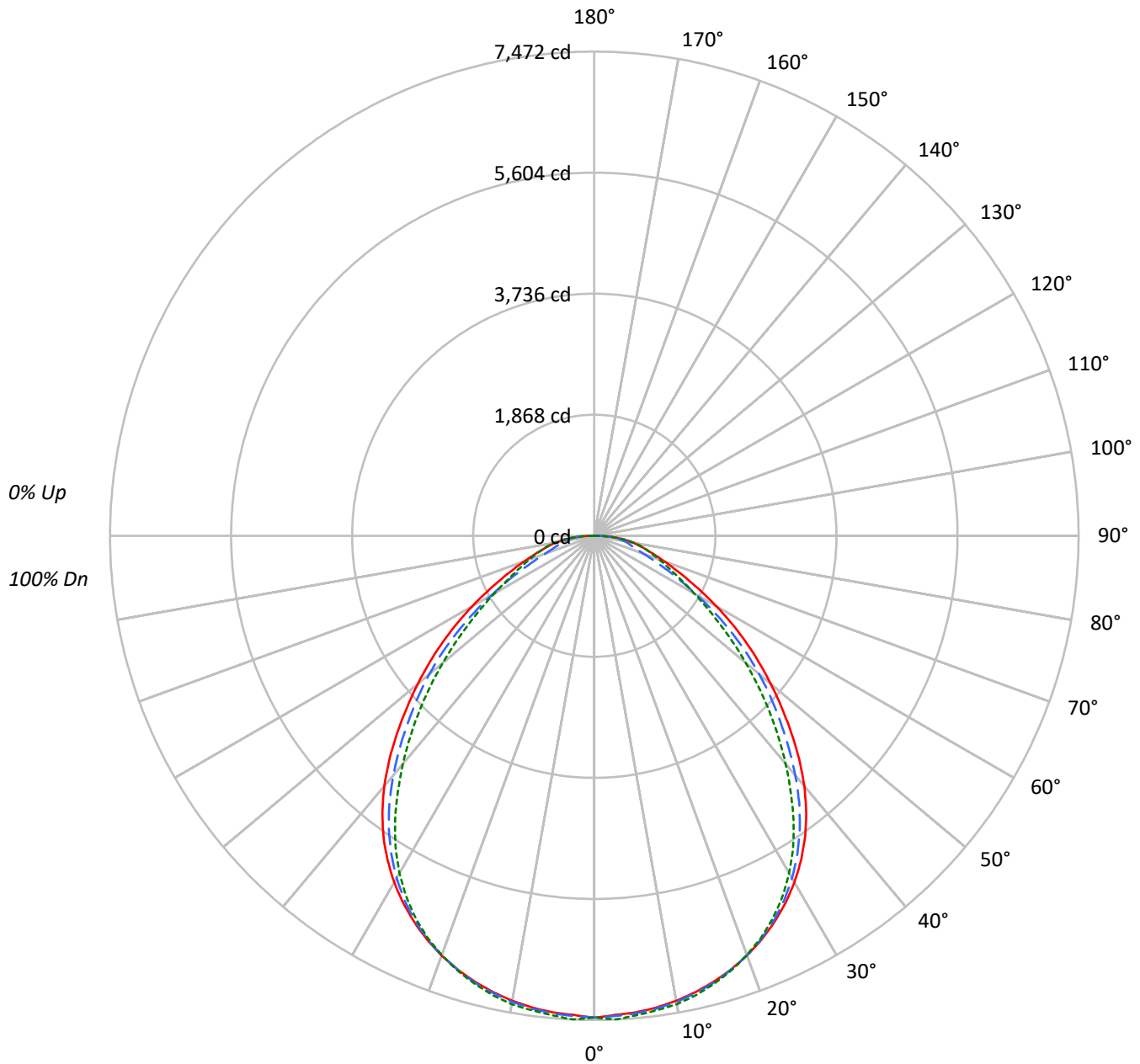
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73		
3	93	83	75	70	90	81	75	69	79	73	68	76	71	67	73	69	65	63		
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55		
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49		
6	73	61	52	46	72	60	52	46	58	51	46	56	50	45	55	49	45	43		
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38		
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35		
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31		
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12005	12005	12005
5°	11963	11990	12039
10°	11946	11974	12034
15°	11906	11930	11958
20°	11844	11835	11826
25°	11715	11675	11609
30°	11513	11374	11208
35°	11178	10897	10562
40°	10622	10166	9679
45°	9813	9265	8704
50°	8921	8343	7657
55°	8021	7223	6619
60°	7019	5903	5743
65°	6052	4642	5184
70°	5396	3789	4996
75°	5168	3699	5221
80°	5591	4374	5816
85°	6276	5267	6338



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	704.7	4.1
10°-20°	2016.8	11.8
20°-30°	3017.0	17.7
30°-40°	3442.1	20.2
40°-50°	3133.3	18.3
50°-60°	2300.8	13.5
60°-70°	1358.5	8.0
70°-80°	778.5	4.6
80°-90°	329.2	1.9
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°	5738.6	33.6
0°-40°	9180.7	53.7
0°-60°	14614.8	85.6
0°-90°	17081.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17081.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7436	7436	7436	7436	7436	
5°	7381	7427	7398	7427	7428	702
15°	7123	7162	7137	7162	7154	2010
25°	6576	6600	6553	6551	6517	3027
35°	5671	5644	5529	5434	5358	3533
45°	4298	4273	4058	3876	3812	3312
55°	2850	2718	2566	2380	2351	2548
65°	1584	1383	1215	1300	1357	1594
75°	828	710	593	773	837	893
85°	339	313	284	335	342	354
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7435.6	7435.6	7435.6	7435.6	7435.6
2.5°	7401.2	7444.0	7417.2	7446.5	7471.7
5°	7381.2	7427.3	7397.9	7427.3	7428.1
7.5°	7344.3	7387.0	7358.5	7390.4	7387.0
10°	7286.3	7329.1	7303.2	7337.6	7340.1
12.5°	7212.6	7253.7	7226.9	7266.3	7259.6
15°	7122.8	7162.2	7137.1	7162.2	7153.9
17.5°	7017.2	7053.3	7020.6	7048.2	7034.0
20°	6893.1	6923.3	6888.1	6914.0	6883.0
22.5°	6744.7	6771.5	6734.6	6748.8	6717.0
25°	6576.1	6599.6	6553.4	6550.9	6516.6
27.5°	6388.2	6400.9	6342.1	6322.0	6282.6
30°	6175.3	6178.6	6100.6	6062.9	6011.7
32.5°	5936.2	5927.9	5828.1	5771.9	5709.0
35°	5671.3	5643.6	5528.7	5434.0	5358.5
37.5°	5371.9	5328.3	5190.8	5050.8	4978.6
40°	5039.8	4988.7	4823.5	4649.9	4592.0
42.5°	4678.4	4634.8	4440.3	4259.1	4202.1
45°	4297.7	4272.6	4057.8	3875.9	3812.1
47.5°	3917.0	3898.5	3688.9	3503.6	3426.4
50°	3551.4	3511.1	3321.6	3118.6	3048.3
52.5°	3196.6	3114.4	2947.6	2739.6	2687.7
55°	2849.5	2717.8	2566.1	2379.9	2351.4
57.5°	2505.6	2335.4	2187.9	2048.6	2047.8
60°	2173.6	1979.0	1828.1	1755.1	1778.6
62.5°	1862.5	1662.9	1499.4	1504.4	1547.2
65°	1584.1	1382.8	1215.1	1299.8	1356.8
67.5°	1345.1	1153.0	982.8	1140.5	1194.9
70°	1143.0	969.4	802.6	999.6	1058.3
72.5°	972.8	826.8	676.8	882.2	941.7
75°	828.5	710.2	592.9	773.2	836.9
77.5°	711.1	606.3	531.7	669.1	735.4
80°	601.3	509.0	470.4	568.6	625.5
82.5°	476.3	412.6	390.0	462.0	491.4
85°	338.8	312.8	284.3	335.4	342.1
87.5°	186.2	192.9	159.3	192.9	193.7
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)