

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: P730519

Luminaire Tested: **HBLED-LD5-18HE-N-CL-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730519
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23768)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-N-CL-UNV-L850
Description: 18000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17528.0 lumens
Efficiency: N/A
Efficacy: 159.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

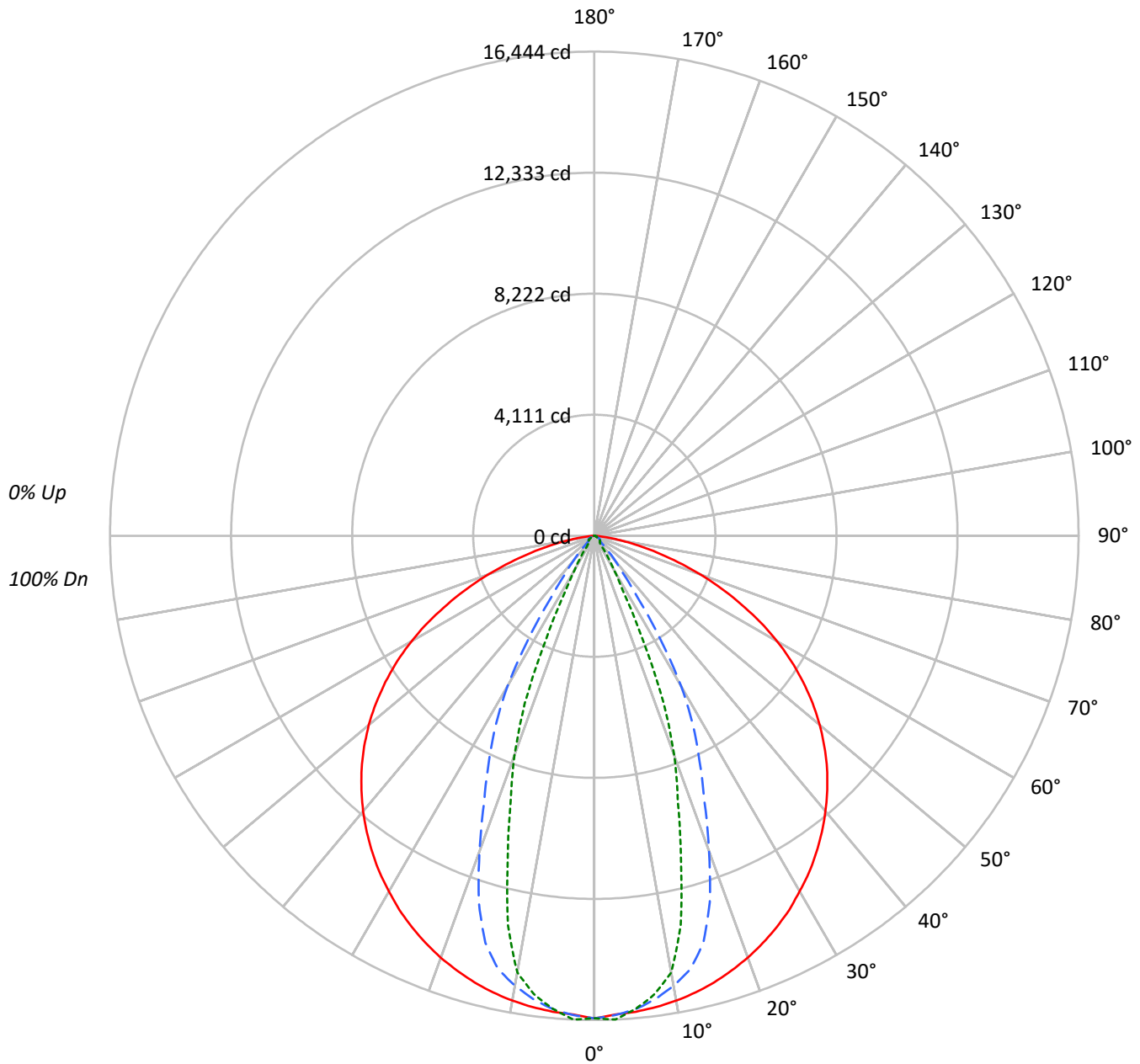
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90		
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81		
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73		
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66		
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60		
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55		
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51		
8	72	61	55	50	71	61	54	50	60	54	49	59	53	49	58	53	49	47		
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44		
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26462	26462	26462
5°	26299	26162	26143
10°	26281	25439	24688
15°	26251	23921	18983
20°	26200	19576	13616
25°	26118	15083	6919
30°	25994	11008	2517
35°	25902	5055	876
40°	25742	2294	604
45°	25513	856	613
50°	25106	621	645
55°	24363	654	491
60°	23152	699	433
65°	20996	532	352
70°	18002	384	325
75°	13760	340	309
80°	8609	320	336
85°	2720	372	452



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1525.8	8.7
10°-20°	3843.7	21.9
20°-30°	4185.9	23.9
30°-40°	3131.3	17.9
40°-50°	2251.5	12.8
50°-60°	1382.7	7.9
60°-70°	795.7	4.5
70°-80°	355.1	2.0
80°-90°	56.3	0.3
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°	9555.4	54.5
0°-40°	12686.7	72.4
0°-60°	16320.9	93.1
0°-90°	17528.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17528.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16389	16389	16389	16389	16389	
5°	16226	16303	16142	16157	16130	###
15°	15705	15404	14311	12291	11356	4433
25°	14661	13609	8466	5432	3884	6758
35°	13141	9425	2565	754	444	8220
45°	11174	5295	375	278	268	8608
55°	8655	1100	232	225	174	7717
65°	5496	121	139	116	92	5440
75°	2206	73	54	56	50	2394
85°	147	14	20	26	24	292
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16389.1	16389.1	16389.1	16389.1	16389.1
2.5°	16275.1	16381.6	16291.8	16372.4	16443.6
5°	16226.5	16302.8	16141.7	16156.8	16130.0
7.5°	16142.6	16161.0	15870.0	15757.6	15703.1
10°	16030.2	15980.7	15516.1	15248.6	15058.2
12.5°	15888.5	15724.9	15075.8	14120.5	13551.1
15°	15704.8	15403.7	14310.9	12290.6	11356.3
17.5°	15485.9	15068.2	13044.5	10243.4	9435.0
20°	15248.6	14697.6	11393.2	8709.5	7924.5
22.5°	14968.5	14223.7	9764.5	7243.5	6165.9
25°	14660.7	13609.0	8466.3	5432.0	3883.9
27.5°	14328.6	12798.0	7264.5	3331.1	2100.0
30°	13942.8	11810.9	5904.2	1869.4	1350.2
32.5°	13566.2	10660.3	4217.7	1245.4	863.0
35°	13141.0	9424.9	2564.6	754.0	444.5
37.5°	12690.6	8301.9	1605.2	410.1	306.9
40°	12213.4	7236.8	1088.6	291.1	286.8
42.5°	11703.5	6273.2	681.8	276.7	286.0
45°	11173.5	5295.3	374.9	277.6	268.4
47.5°	10598.2	4233.6	261.7	262.5	261.7
50°	9995.2	3036.8	247.4	259.2	256.7
52.5°	9345.2	1885.3	248.2	253.3	227.3
55°	8655.0	1100.3	232.3	224.8	174.5
57.5°	7929.5	686.0	227.3	185.4	156.8
60°	7169.7	362.3	216.4	166.9	134.2
62.5°	6360.4	178.7	173.6	142.6	109.9
65°	5495.7	120.8	139.3	115.7	92.2
67.5°	4660.4	109.0	104.9	94.8	80.5
70°	3813.4	99.8	81.3	83.0	68.8
72.5°	2982.3	90.5	65.4	71.3	57.9
75°	2205.7	73.0	54.5	56.2	49.5
77.5°	1534.7	57.0	42.8	47.8	46.1
80°	925.9	36.1	34.4	39.4	36.1
82.5°	448.7	23.5	26.9	31.0	28.5
85°	146.8	14.2	20.1	26.0	24.4
87.5°	18.4	8.4	16.7	22.7	21.0
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)