

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: P730249

Luminaire Tested: **HBLED-LD5-12HE-N-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730249
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23767)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12HE-N-UNV-L850
Description: 12000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12246.0 lumens
Efficiency: N/A
Efficacy: 168.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

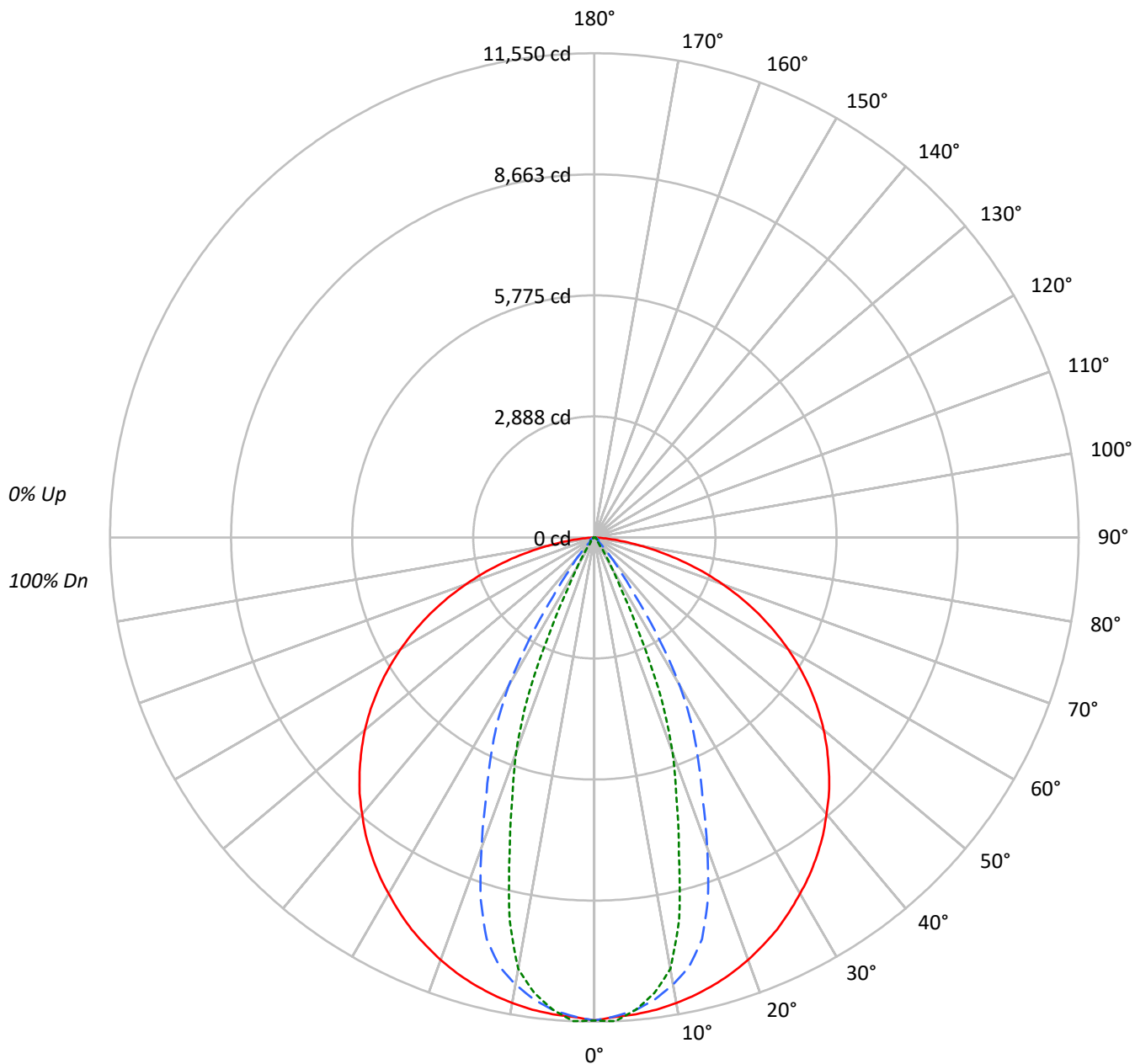
Input Watts (W): 72.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90		
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81		
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73		
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66		
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60		
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55		
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51		
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47		
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44		
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18603	18603	18603
5°	18503	18340	18332
10°	18492	17752	17129
15°	18465	16585	13036
20°	18422	13520	9384
25°	18376	10454	4622
30°	18294	7597	1499
35°	18251	3371	386
40°	18155	1369	260
45°	18074	384	277
50°	17934	273	307
55°	17675	324	131
60°	17239	361	80
65°	16530	230	94
70°	15357	204	117
75°	13434	154	160
80°	10045	189	230
85°	4976	243	304



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1069.2	8.7
10°-20°	2673.6	21.8
20°-30°	2895.9	23.6
30°-40°	2144.5	17.5
40°-50°	1544.6	12.6
50°-60°	956.4	7.8
60°-70°	588.2	4.8
70°-80°	310.1	2.5
80°-90°	63.5	0.5
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°	6638.7	54.2
0°-40°	8783.2	71.7
0°-60°	11284.3	92.1
0°-90°	12246.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12246.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11522	11522	11522	11522	11522	
5°	11416	11459	11316	11324	11311	###
15°	11047	10790	9922	8438	7799	3118
25°	10315	9448	5868	3691	2595	4753
35°	9260	6528	1710	402	196	5793
45°	7916	3678	168	122	121	6105
55°	6279	758	115	104	47	5605
65°	4327	80	60	38	25	4269
75°	2154	19	25	32	26	2275
85°	269	7	13	20	16	406
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11521.6	11521.6	11521.6	11521.6	11521.6
2.5°	11447.6	11520.5	11434.5	11498.6	11549.6
5°	11416.4	11458.6	11315.5	11323.7	11310.6
7.5°	11361.5	11351.7	11111.1	11005.8	10959.8
10°	11278.8	11213.6	10827.7	10607.9	10447.9
12.5°	11171.9	11026.1	10474.2	9775.4	9341.3
15°	11046.9	10790.4	9921.7	8437.5	7798.9
17.5°	10897.8	10534.5	9018.4	7071.6	6501.6
20°	10721.9	10248.9	7868.5	6016.5	5461.3
22.5°	10525.7	9901.4	6751.5	5000.3	4208.3
25°	10314.7	9448.2	5867.9	3691.4	2594.7
27.5°	10070.8	8865.5	5039.2	2174.3	1324.2
30°	9812.6	8163.9	4075.1	1169.6	804.1
32.5°	9552.3	7368.6	2883.5	730.6	456.0
35°	9259.6	6527.9	1710.1	402.3	195.7
37.5°	8954.3	5757.2	1010.7	183.1	125.5
40°	8613.9	5052.9	649.5	121.7	123.3
42.5°	8285.1	4396.3	365.6	120.0	122.2
45°	7915.6	3677.7	168.3	121.7	121.1
47.5°	7533.6	2932.9	109.0	122.8	122.8
50°	7139.6	2097.1	108.5	125.5	122.2
52.5°	6723.5	1308.3	112.9	125.0	100.3
55°	6279.0	757.5	115.1	104.1	46.6
57.5°	5818.6	446.7	116.2	59.7	26.3
60°	5338.5	247.2	111.8	44.4	24.7
62.5°	4843.5	117.8	88.2	41.7	24.1
65°	4326.7	80.0	60.3	38.3	24.7
67.5°	3790.1	61.9	47.7	36.2	25.2
70°	3253.0	46.0	43.3	36.2	24.7
72.5°	2707.1	31.2	36.2	36.7	24.7
75°	2153.5	18.6	24.7	32.4	25.7
77.5°	1604.8	11.5	19.2	33.4	31.2
80°	1080.3	9.9	20.3	31.2	24.7
82.5°	634.2	8.8	19.8	24.1	19.8
85°	268.6	7.1	13.1	19.8	16.4
87.5°	50.4	6.0	10.4	15.9	14.2
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)