

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: P730321

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730321
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-LD5-12SE-N-UNV-L850
Description: 12000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11993.0 lumens
Efficiency: N/A
Efficacy: 159.9 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

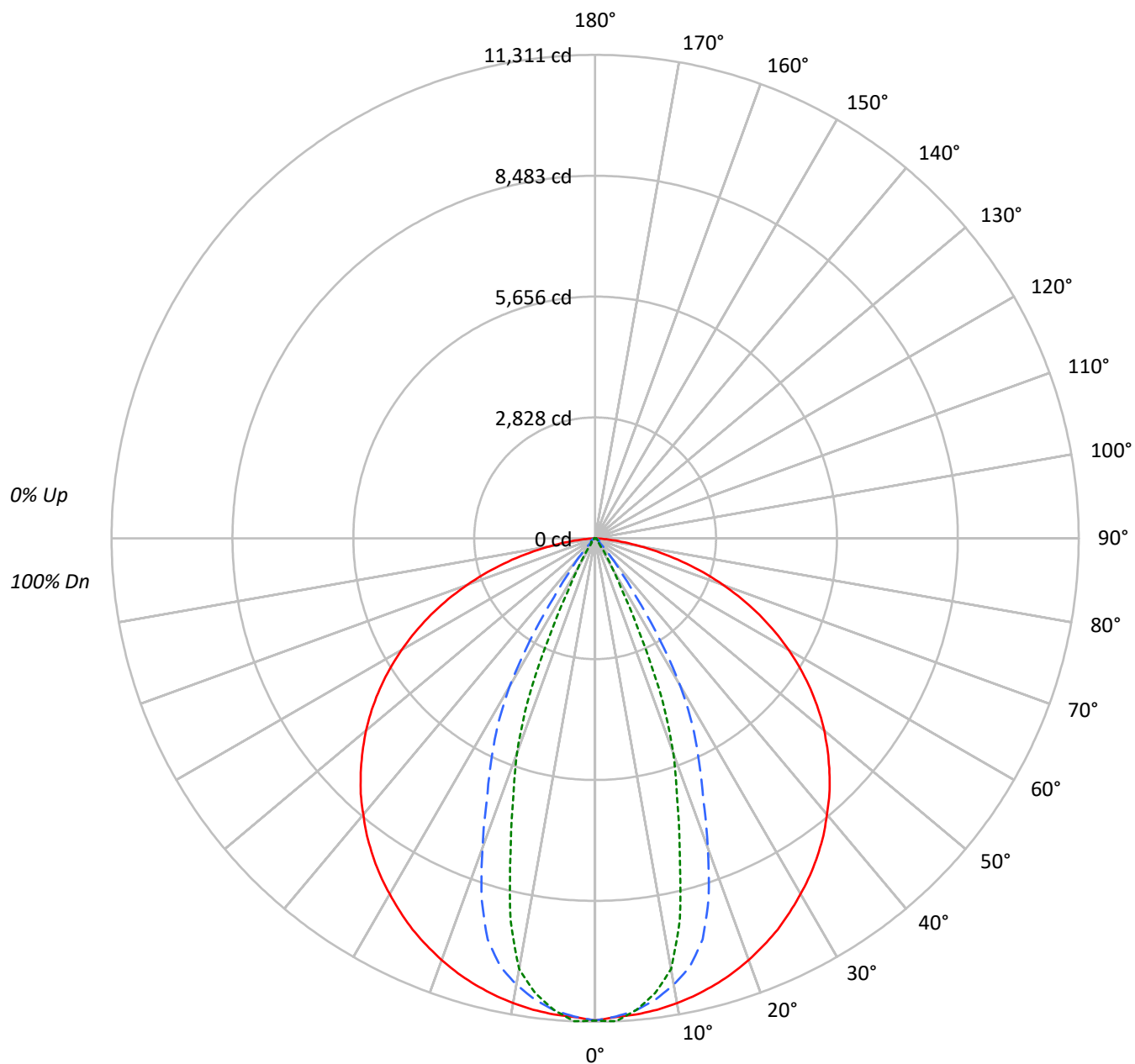
Input Watts (W): 75
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	18218	18218	18218
5°	18121	17961	17953
10°	18110	17385	16775
15°	18084	16242	12767
20°	18042	13240	9190
25°	17996	10238	4527
30°	17916	7440	1468
35°	17874	3301	378
40°	17781	1341	254
45°	17701	376	271
50°	17563	267	301
55°	17310	317	128
60°	16883	354	78
65°	16188	225	92
70°	15039	200	114
75°	13157	151	157
80°	9837	185	225
85°	4872	239	298



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1047.1	8.7
10°-20°	2618.4	21.8
20°-30°	2836.1	23.6
30°-40°	2100.2	17.5
40°-50°	1512.7	12.6
50°-60°	936.7	7.8
60°-70°	576.0	4.8
70°-80°	303.7	2.5
80°-90°	62.2	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°	6501.6	54.2
0°-40°	8601.8	71.7
0°-60°	11051.2	92.1
0°-90°	11993.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11993.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11284	11284	11284	11284	11284	
5°	11180	11222	11082	11090	11077	###
15°	10819	10568	9717	8263	7638	3054
25°	10102	9253	5747	3615	2541	4655
35°	9068	6393	1675	394	192	5673
45°	7752	3602	165	119	119	5978
55°	6149	742	113	102	46	5489
65°	4237	78	59	38	24	4181
75°	2109	18	24	32	25	2228
85°	263	7	13	19	16	397
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11283.6	11283.6	11283.6	11283.6	11283.6
2.5°	11211.1	11282.5	11198.2	11261.0	11310.9
5°	11180.5	11221.8	11081.7	11089.8	11076.9
7.5°	11126.8	11117.2	10881.5	10778.5	10733.4
10°	11045.8	10981.9	10604.0	10388.8	10232.0
12.5°	10941.1	10798.3	10257.8	9573.4	9148.3
15°	10818.7	10567.5	9716.7	8263.2	7637.8
17.5°	10672.7	10316.8	8832.1	6925.5	6367.3
20°	10500.4	10037.2	7705.9	5892.2	5348.5
22.5°	10308.2	9696.8	6612.0	4897.0	4121.4
25°	10101.6	9253.0	5746.7	3615.2	2541.1
27.5°	9862.7	8682.4	4935.1	2129.4	1296.9
30°	9609.9	7995.3	3990.9	1145.5	787.5
32.5°	9354.9	7216.4	2824.0	715.5	446.6
35°	9068.3	6393.0	1674.7	394.0	191.7
37.5°	8769.3	5638.3	989.8	179.3	122.9
40°	8436.0	4948.6	636.1	119.1	120.7
42.5°	8113.9	4305.5	358.0	117.5	119.7
45°	7752.1	3601.7	164.8	119.1	118.6
47.5°	7378.0	2872.3	106.8	120.2	120.2
50°	6992.1	2053.7	106.3	122.9	119.7
52.5°	6584.6	1281.3	110.6	122.4	98.2
55°	6149.3	741.8	112.7	102.0	45.6
57.5°	5698.4	437.5	113.8	58.5	25.8
60°	5228.2	242.1	109.5	43.5	24.2
62.5°	4743.5	115.4	86.4	40.8	23.6
65°	4237.3	78.4	59.0	37.6	24.2
67.5°	3711.8	60.6	46.7	35.4	24.7
70°	3185.8	45.1	42.4	35.4	24.2
72.5°	2651.1	30.6	35.4	35.9	24.2
75°	2109.0	18.3	24.2	31.7	25.2
77.5°	1571.7	11.3	18.8	32.7	30.6
80°	1058.0	9.6	19.9	30.6	24.2
82.5°	621.1	8.6	19.3	23.6	19.3
85°	263.0	7.0	12.9	19.3	16.1
87.5°	49.4	5.9	10.2	15.6	14.0
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)