

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: P730318

Luminaire Tested: **HBLED-LD5-12SE-N-UNV-L750**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730318
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-L750
Description: 12000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12619.0 lumens
Efficiency: N/A
Efficacy: 168.3 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

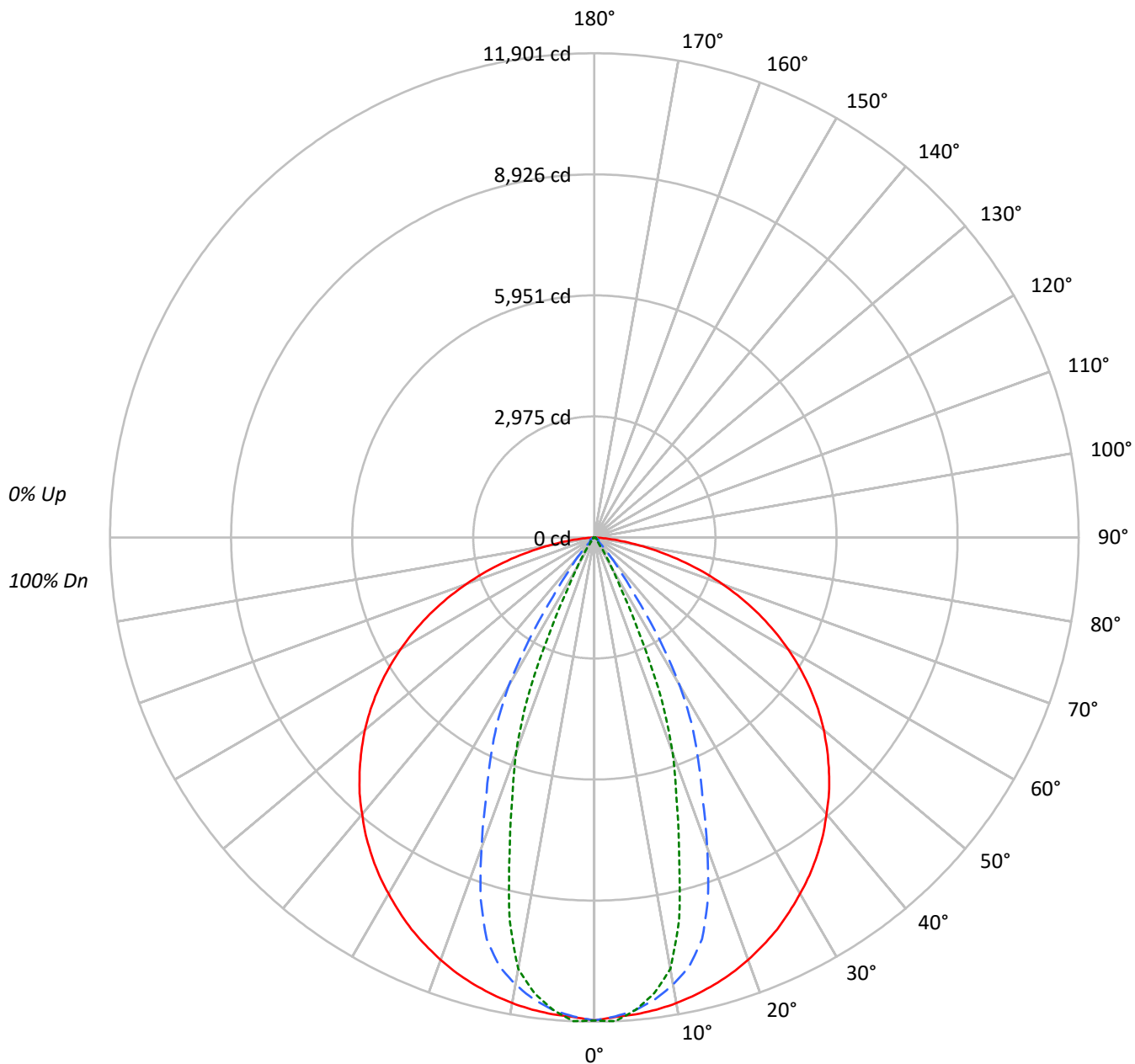
Input Watts (W): 75
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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°	19169	19169	19169
5°	19067	18898	18890
10°	19055	18293	17651
15°	19028	17090	13433
20°	18984	13932	9669
25°	18935	10772	4763
30°	18852	7829	1545
35°	18807	3473	398
40°	18709	1411	268
45°	18625	396	285
50°	18480	281	316
55°	18214	334	135
60°	17764	372	82
65°	17033	237	97
70°	15824	211	120
75°	13843	158	165
80°	10351	194	236
85°	5128	250	313



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1101.8	8.7
10°-20°	2755.0	21.8
20°-30°	2984.1	23.6
30°-40°	2209.9	17.5
40°-50°	1591.7	12.6
50°-60°	985.5	7.8
60°-70°	606.1	4.8
70°-80°	319.5	2.5
80°-90°	65.4	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°	6840.9	54.2
0°-40°	9050.8	71.7
0°-60°	11628.0	92.1
0°-90°	12619.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12619.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11872	11872	11872	11872	11872	
5°	11764	11808	11660	11669	11655	###
15°	11383	11119	10224	8694	8036	3213
25°	10629	9736	6047	3804	2674	4897
35°	9542	6727	1762	415	202	5969
45°	8157	3790	173	125	125	6291
55°	6470	780	119	107	48	5776
65°	4458	82	62	40	25	4399
75°	2219	19	25	33	26	2344
85°	277	7	14	20	17	418
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11872.5	11872.5	11872.5	11872.5	11872.5
2.5°	11796.3	11871.4	11782.7	11848.8	11901.3
5°	11764.1	11807.6	11660.2	11668.6	11655.1
7.5°	11707.6	11697.4	11449.5	11341.1	11293.6
10°	11622.3	11555.1	11157.5	10931.0	10766.1
12.5°	11512.2	11362.0	10793.2	10073.1	9625.8
15°	11383.4	11119.1	10223.9	8694.5	8036.4
17.5°	11229.8	10855.3	9293.1	7287.0	6699.6
20°	11048.5	10561.1	8108.2	6199.8	5627.6
22.5°	10846.3	10203.0	6957.2	5152.6	4336.5
25°	10628.8	9735.9	6046.7	3803.9	2673.7
27.5°	10377.5	9135.5	5192.7	2240.6	1364.6
30°	10111.5	8412.6	4199.2	1205.3	828.6
32.5°	9843.2	7593.1	2971.4	752.9	469.9
35°	9541.6	6726.7	1762.1	414.6	201.7
37.5°	9227.0	5932.6	1041.5	188.7	129.3
40°	8876.3	5206.9	669.3	125.4	127.1
42.5°	8537.5	4530.2	376.7	123.7	126.0
45°	8156.7	3789.7	173.4	125.4	124.8
47.5°	7763.1	3022.2	112.4	126.5	126.5
50°	7357.0	2160.9	111.8	129.3	126.0
52.5°	6928.3	1348.2	116.4	128.8	103.4
55°	6470.3	780.5	118.6	107.3	48.0
57.5°	5995.9	460.3	119.7	61.6	27.1
60°	5501.1	254.7	115.2	45.7	25.4
62.5°	4991.1	121.4	90.9	43.0	24.8
65°	4458.5	82.5	62.1	39.5	25.4
67.5°	3905.6	63.8	49.1	37.3	26.0
70°	3352.0	47.4	44.6	37.3	25.4
72.5°	2789.5	32.2	37.3	37.8	25.4
75°	2219.1	19.2	25.4	33.3	26.5
77.5°	1653.7	11.8	19.8	34.4	32.2
80°	1113.2	10.2	20.9	32.2	25.4
82.5°	653.5	9.1	20.4	24.8	20.4
85°	276.8	7.4	13.5	20.4	16.9
87.5°	52.0	6.2	10.8	16.4	14.7
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)