

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: P730458

Luminaire Tested: **HBLED-LD5-15SE-N-CLI-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730458
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23769)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-15SE-N-CLI-UNV-L840
Description: 15000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14040.0 lumens
Efficiency: N/A
Efficacy: 149.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

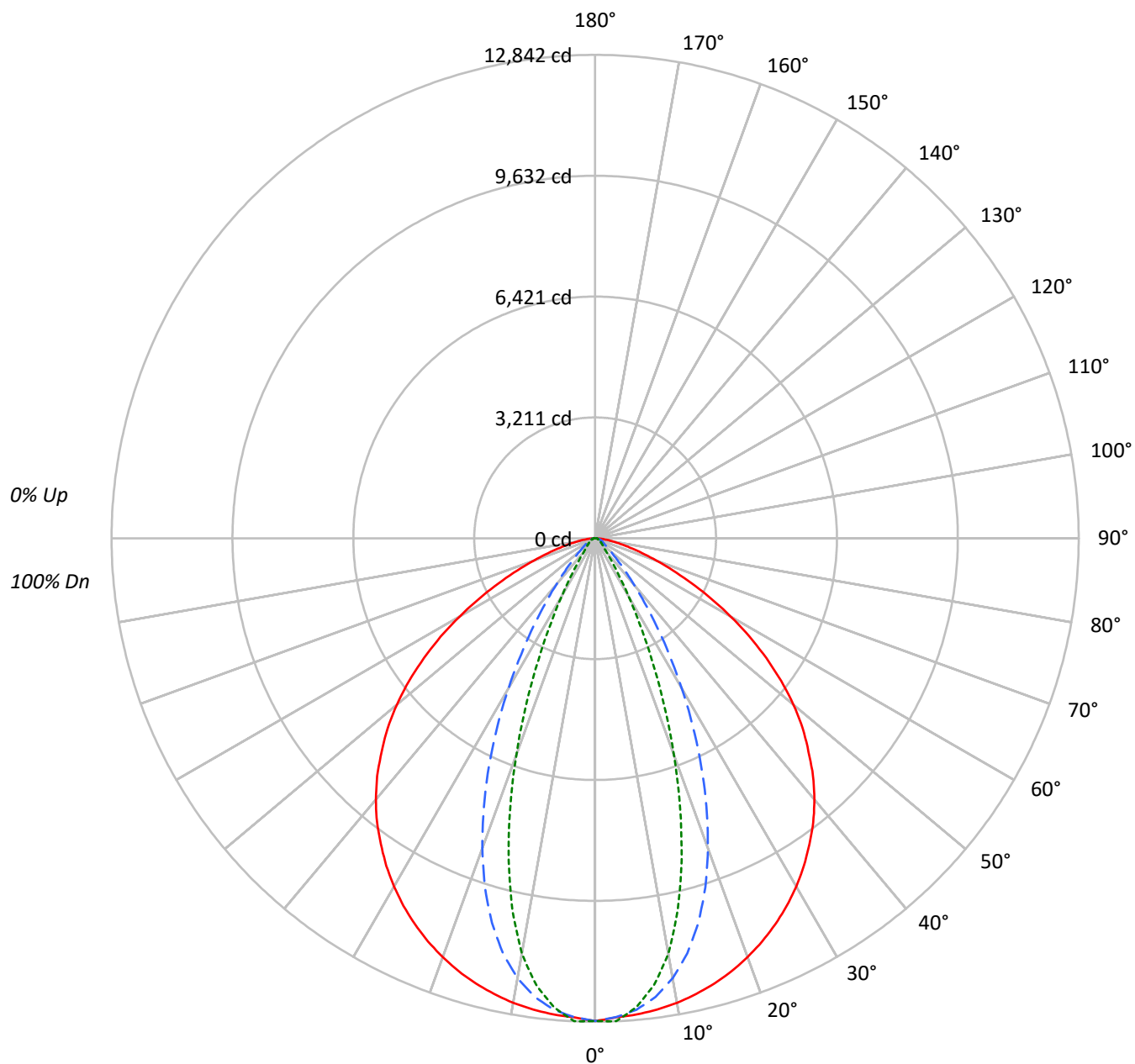
Input Watts (W): 94
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	75	81	77	74	72		
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65		
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60		
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55		
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50		
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46		
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43		
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20706	20706	20706
5°	20582	20377	20270
10°	20547	19454	18358
15°	20465	17684	14826
20°	20342	15047	10508
25°	20160	11865	6349
30°	19915	8563	3263
35°	19556	5598	1630
40°	19092	3363	951
45°	18298	2008	711
50°	17259	1313	597
55°	15620	996	521
60°	13423	849	475
65°	10797	774	449
70°	8134	829	447
75°	5983	788	459
80°	4378	785	503
85°	3279	952	650



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1181.1	8.4
10°-20°	2938.2	20.9
20°-30°	3254.5	23.2
30°-40°	2607.5	18.6
40°-50°	1861.4	13.3
50°-60°	1195.6	8.5
60°-70°	647.9	4.6
70°-80°	276.9	2.0
80°-90°	76.8	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°	7373.9	52.5
0°-40°	9981.3	71.1
0°-60°	13038.3	92.9
0°-90°	14040.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14040.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12824	12824	12824	12824	12824	
5°	12699	12746	12572	12533	12506	###
15°	12243	11860	10579	9349	8870	3454
25°	11316	9978	6660	4339	3564	5213
35°	9921	7176	2840	1146	827	6203
45°	8014	4143	880	374	311	6177
55°	5549	1852	354	218	185	4945
65°	2826	760	203	140	118	2830
75°	959	278	126	88	74	1066
85°	177	74	51	43	35	216
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12824.5	12824.5	12824.5	12824.5	12824.5
2.5°	12740.1	12819.8	12734.0	12787.3	12842.0
5°	12698.9	12746.2	12572.5	12532.7	12506.4
7.5°	12627.3	12613.8	12287.6	12076.1	11974.1
10°	12532.7	12423.3	11866.0	11401.3	11197.3
12.5°	12397.6	12172.0	11295.2	10479.3	10133.5
15°	12242.9	11860.0	10579.2	9349.2	8869.6
17.5°	12057.8	11495.2	9723.4	8137.4	7504.5
20°	11839.0	11054.8	8757.5	6850.0	6115.7
22.5°	11594.5	10546.8	7723.3	5566.5	4779.0
25°	11316.2	9978.1	6660.2	4339.3	3563.8
27.5°	11015.6	9346.5	5603.1	3242.3	2535.0
30°	10681.9	8662.9	4593.2	2337.8	1750.2
32.5°	10317.8	7936.1	3655.0	1644.1	1197.0
35°	9921.4	7176.2	2840.3	1145.6	826.8
37.5°	9515.4	6400.8	2145.3	809.9	593.1
40°	9058.1	5628.0	1595.5	593.1	451.2
42.5°	8567.0	4870.2	1180.8	456.6	365.4
45°	8013.8	4142.7	879.5	374.2	311.4
47.5°	7477.5	3464.5	668.0	318.8	270.9
50°	6870.9	2852.5	522.8	278.3	237.7
52.5°	6227.2	2314.2	424.2	245.2	209.4
55°	5549.0	1852.1	353.9	217.5	185.1
57.5°	4862.1	1467.1	302.6	193.8	164.8
60°	4156.9	1173.3	262.8	173.6	147.2
62.5°	3468.6	938.2	229.6	156.0	131.7
65°	2826.2	760.5	202.6	139.8	117.5
67.5°	2232.4	601.2	189.1	125.6	106.1
70°	1723.1	468.1	175.6	112.1	94.6
72.5°	1305.7	359.4	155.4	100.0	83.8
75°	959.1	278.3	126.3	87.8	73.6
77.5°	686.3	214.2	102.7	76.3	63.5
80°	470.8	159.4	84.4	65.5	54.1
82.5°	306.0	112.8	68.2	54.1	44.5
85°	177.0	73.6	51.4	42.6	35.1
87.5°	76.3	40.5	35.1	31.8	27.0
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)