

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: P730496

Luminaire Tested: **HBLED-LD5-15SE-W-FLI-UNV-L735**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730496
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26703)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-15SE-W-FLI-UNV-L735
Description: 15000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14228.0 lumens
Efficiency: N/A
Efficacy: 151.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

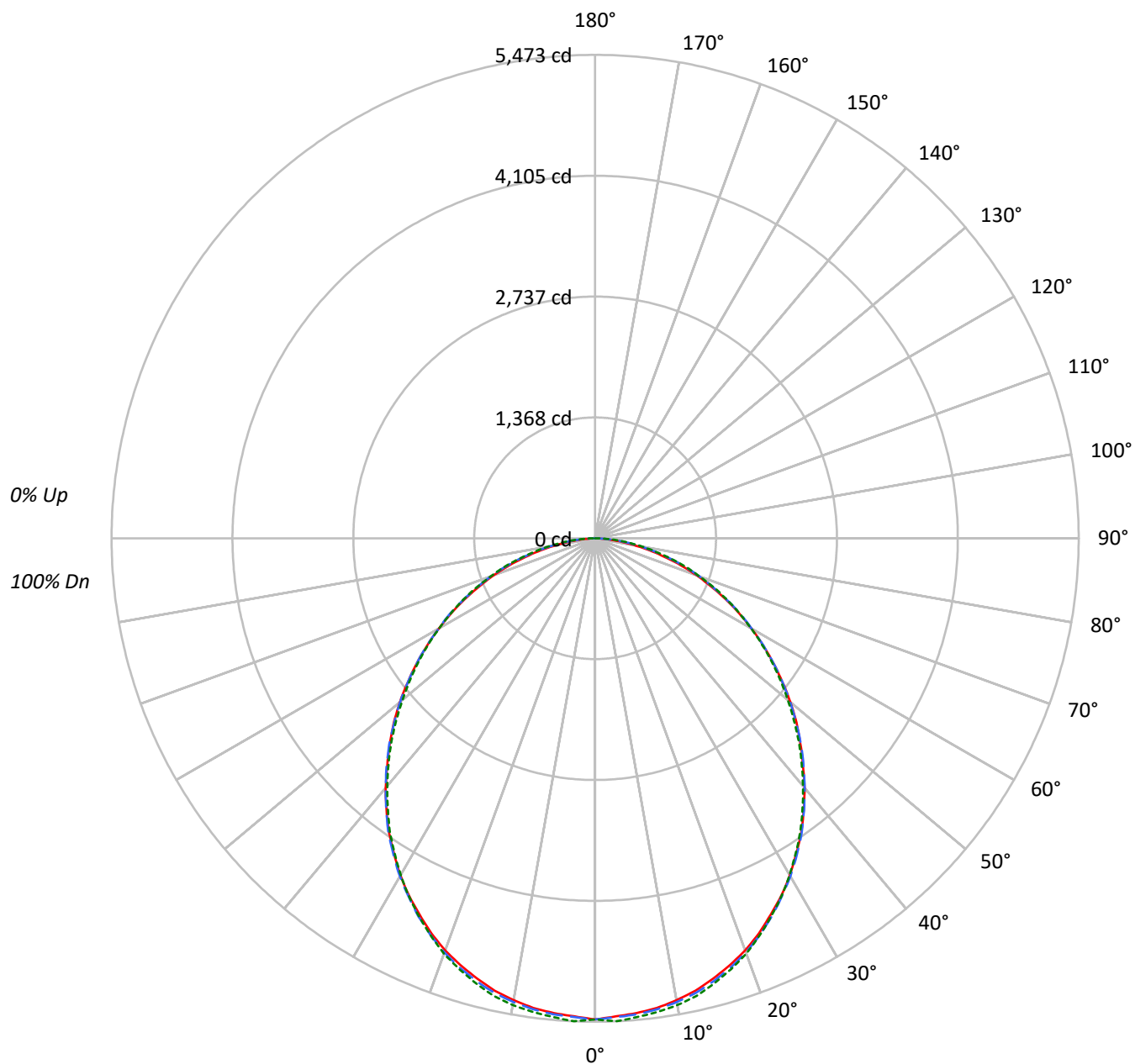
Input Watts (W): 94
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84		
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71		
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60		
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51		
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45		
6	71	58	49	42	69	57	48	42	55	47	42	53	47	42	52	46	41	39		
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35		
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31		
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8794	8794	8794
5°	8744	8769	8819
10°	8705	8740	8797
15°	8628	8675	8717
20°	8531	8572	8596
25°	8373	8420	8408
30°	8218	8240	8207
35°	8015	8035	7984
40°	7774	7774	7714
45°	7502	7523	7446
50°	7244	7232	7141
55°	6931	6932	6869
60°	6595	6603	6577
65°	6215	6278	6294
70°	5741	5898	5905
75°	5074	5402	5487
80°	4161	4731	4999
85°	2888	3972	4492



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	515.1	3.6
10°-20°	1465.5	10.3
20°-30°	2177.8	15.3
30°-40°	2546.4	17.9
40°-50°	2538.8	17.8
50°-60°	2202.7	15.5
60°-70°	1627.0	11.4
70°-80°	910.9	6.4
80°-90°	243.1	1.7
90°-100°	0.7	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°	4158.4	29.2
0°-40°	6704.7	47.1
0°-60°	11446.3	80.4
0°-90°	14227.3	100.0
90°-120°	0.7	0.0
90°-150°	0.7	0.0
90°-180°	1.0	0.0
0°-180°	14228.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5447	5447	5447	5447	5447	
5°	5395	5429	5410	5434	5441	512
15°	5162	5198	5190	5215	5215	1456
25°	4700	4738	4726	4737	4720	2167
35°	4066	4102	4077	4076	4051	2540
45°	3286	3320	3294	3281	3261	2536
55°	2462	2479	2462	2458	2440	2202
65°	1627	1643	1643	1652	1647	1609
75°	813	838	866	872	880	866
85°	156	188	214	234	242	189
90°	0	4	4	9	9	6
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5446.9	5446.9	5446.9	5446.9	5446.9
2.5°	5417.1	5449.3	5426.8	5448.3	5473.2
5°	5395.3	5429.3	5410.5	5434.4	5441.3
7.5°	5363.4	5396.3	5378.3	5402.2	5409.5
10°	5309.4	5345.1	5330.9	5357.9	5365.5
12.5°	5246.3	5279.9	5270.6	5302.1	5307.3
15°	5161.8	5197.9	5189.9	5214.8	5215.2
17.5°	5068.3	5102.2	5096.3	5115.8	5115.0
20°	4964.8	5001.1	4988.7	5009.7	5003.1
22.5°	4842.1	4880.9	4865.3	4883.0	4866.4
25°	4699.7	4737.5	4726.4	4736.8	4719.5
27.5°	4561.9	4596.5	4573.6	4586.1	4567.7
30°	4408.1	4437.5	4419.9	4424.0	4401.9
32.5°	4235.2	4270.2	4248.7	4248.0	4224.5
35°	4066.2	4101.8	4076.6	4075.9	4050.6
37.5°	3879.1	3912.4	3882.6	3884.4	3854.9
40°	3688.3	3717.1	3688.3	3686.9	3659.9
42.5°	3481.1	3519.3	3493.0	3496.0	3460.0
45°	3285.5	3320.5	3294.5	3280.9	3260.8
47.5°	3090.5	3105.7	3084.2	3080.7	3052.4
50°	2884.0	2895.4	2879.1	2875.0	2843.1
52.5°	2670.6	2690.4	2669.6	2664.0	2642.9
55°	2462.1	2479.0	2462.4	2458.3	2440.3
57.5°	2252.2	2274.4	2257.4	2253.2	2238.7
60°	2042.3	2048.9	2044.7	2050.9	2036.8
62.5°	1833.8	1849.0	1853.9	1852.1	1841.0
65°	1626.9	1642.9	1643.2	1651.6	1647.4
67.5°	1415.3	1436.1	1442.0	1450.6	1454.4
70°	1216.1	1232.1	1249.4	1254.6	1250.8
72.5°	1015.6	1041.2	1060.6	1065.1	1081.4
75°	813.3	837.5	866.0	872.2	879.5
77.5°	625.6	657.8	683.4	691.7	700.8
80°	447.5	483.2	508.8	520.2	537.6
82.5°	293.7	330.1	356.1	367.5	388.7
85°	155.9	188.5	214.4	233.5	242.5
87.5°	46.1	73.8	88.7	94.2	102.2
90°	0.0	3.5	4.1	9.3	8.7
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - 90°-270°







107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



(END OF REPORT)