

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: P730501

Luminaire Tested: **HBLED-LD5-15SE-W-FLI-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730501
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-L850
Description: 15000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14267.0 lumens
Efficiency: N/A
Efficacy: 151.8 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

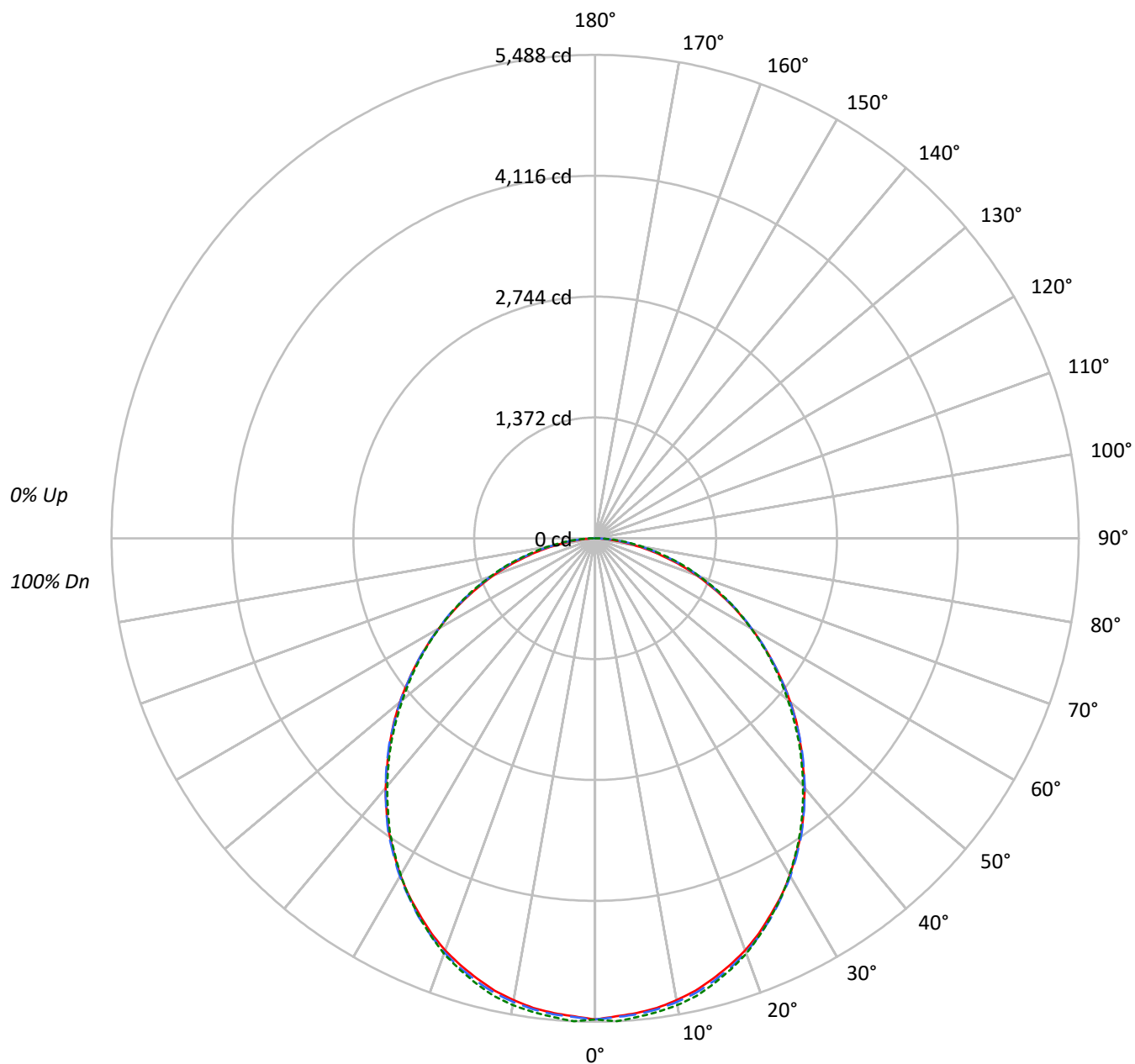
Input Watts (W): 94
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	8819	8819	8819
5°	8768	8793	8843
10°	8729	8764	8821
15°	8652	8699	8741
20°	8554	8595	8620
25°	8395	8443	8431
30°	8241	8263	8229
35°	8037	8057	8006
40°	7795	7795	7735
45°	7523	7543	7466
50°	7264	7252	7161
55°	6950	6951	6888
60°	6613	6621	6595
65°	6233	6295	6311
70°	5757	5915	5921
75°	5087	5417	5502
80°	4173	4744	5013
85°	2896	3983	4504



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	516.6	3.6
10°-20°	1469.5	10.3
20°-30°	2183.7	15.3
30°-40°	2553.4	17.9
40°-50°	2545.8	17.8
50°-60°	2208.8	15.5
60°-70°	1631.4	11.4
70°-80°	913.4	6.4
80°-90°	243.7	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°	4169.8	29.2
0°-40°	6723.1	47.1
0°-60°	11477.7	80.4
0°-90°	14266.3	100.0
90°-120°	0.7	0.0
90°-150°	0.7	0.0
90°-180°	1.0	0.0
0°-180°	14267.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5462	5462	5462	5462	5462	
5°	5410	5444	5425	5449	5456	514
15°	5176	5212	5204	5229	5230	1460
25°	4713	4750	4739	4750	4732	2173
35°	4077	4113	4088	4087	4062	2547
45°	3294	3330	3304	3290	3270	2543
55°	2469	2486	2469	2465	2447	2208
65°	1631	1647	1648	1656	1652	1613
75°	816	840	868	875	882	869
85°	156	189	215	234	243	190
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°	5461.8	5461.8	5461.8	5461.8	5461.8
2.5°	5432.0	5464.3	5441.7	5463.2	5488.2
5°	5410.1	5444.1	5425.3	5449.3	5456.3
7.5°	5378.1	5411.1	5393.1	5417.0	5424.3
10°	5323.9	5359.7	5345.5	5372.6	5380.2
12.5°	5260.7	5294.4	5285.0	5316.6	5321.8
15°	5176.0	5212.1	5204.1	5229.1	5229.5
17.5°	5082.2	5116.2	5110.3	5129.8	5129.0
20°	4978.4	5014.8	5002.3	5023.5	5016.9
22.5°	4855.4	4894.3	4878.6	4896.4	4879.7
25°	4712.6	4750.5	4739.4	4749.8	4732.4
27.5°	4574.4	4609.1	4586.2	4598.7	4580.3
30°	4420.1	4449.7	4432.0	4436.1	4413.9
32.5°	4246.8	4281.9	4260.4	4259.7	4236.1
35°	4077.3	4113.1	4087.8	4087.1	4061.7
37.5°	3889.8	3923.1	3893.3	3895.0	3865.5
40°	3698.4	3727.2	3698.4	3697.0	3669.9
42.5°	3490.7	3528.9	3502.5	3505.6	3469.5
45°	3294.5	3329.6	3303.5	3289.9	3269.8
47.5°	3098.9	3114.2	3092.7	3089.2	3060.7
50°	2891.9	2903.3	2887.0	2882.9	2850.9
52.5°	2678.0	2697.8	2676.9	2671.3	2650.2
55°	2468.8	2485.8	2469.2	2465.0	2446.9
57.5°	2258.4	2280.6	2263.6	2259.4	2244.8
60°	2047.9	2054.5	2050.3	2056.5	2042.4
62.5°	1838.8	1854.1	1858.9	1857.2	1846.1
65°	1631.4	1647.4	1647.7	1656.1	1651.9
67.5°	1419.2	1440.0	1446.0	1454.6	1458.4
70°	1219.5	1235.5	1252.9	1258.0	1254.2
72.5°	1018.4	1044.1	1063.6	1068.0	1084.4
75°	815.5	839.8	868.4	874.6	881.9
77.5°	627.3	659.6	685.3	693.6	702.7
80°	448.8	484.5	510.2	521.7	539.1
82.5°	294.5	331.0	357.1	368.5	389.7
85°	156.3	189.0	215.0	234.1	243.1
87.5°	46.2	74.0	88.9	94.5	102.5
90°	0.0	3.5	4.2	9.4	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)