

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: P730500

Luminaire Tested: **HBLED-LD5-15SE-W-FLI-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730500
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-L840
Description: 15000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13993.0 lumens
Efficiency: N/A
Efficacy: 148.9 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

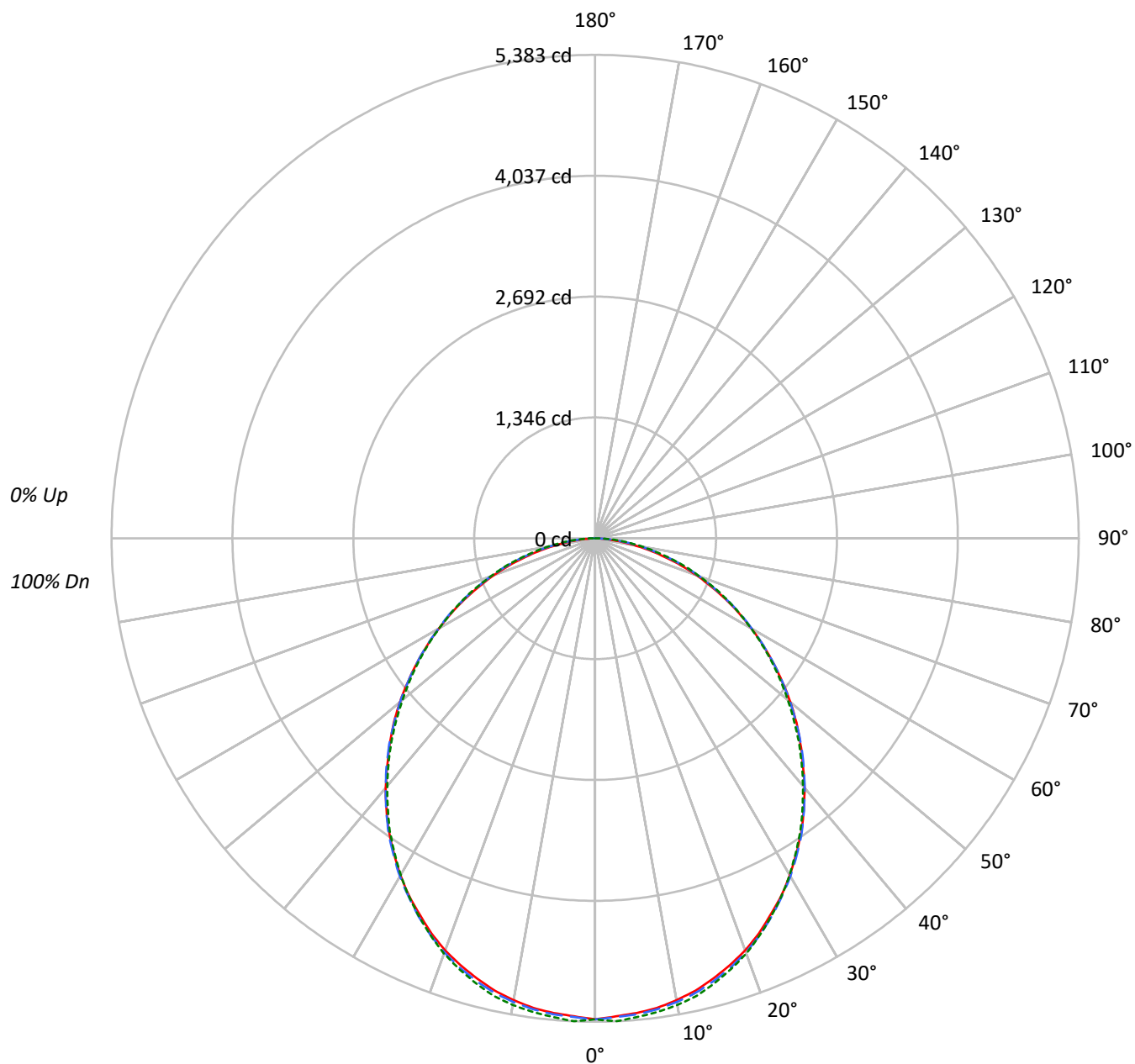
Input Watts (W): 94
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	8649	8649	8649
5°	8600	8624	8673
10°	8561	8596	8651
15°	8486	8532	8573
20°	8390	8430	8454
25°	8234	8281	8269
30°	8083	8104	8071
35°	7882	7903	7852
40°	7645	7645	7587
45°	7378	7398	7323
50°	7125	7113	7024
55°	6816	6817	6756
60°	6486	6494	6468
65°	6113	6174	6190
70°	5646	5801	5807
75°	4990	5313	5395
80°	4093	4653	4916
85°	2840	3907	4418



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	506.6	3.6
10°-20°	1441.3	10.3
20°-30°	2141.8	15.3
30°-40°	2504.3	17.9
40°-50°	2496.9	17.8
50°-60°	2166.4	15.5
60°-70°	1600.1	11.4
70°-80°	895.9	6.4
80°-90°	239.0	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°	4089.7	29.2
0°-40°	6594.0	47.1
0°-60°	11257.3	80.4
0°-90°	13992.3	100.0
90°-120°	0.7	0.0
90°-150°	0.7	0.0
90°-180°	1.0	0.0
0°-180°	13993.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5357	5357	5357	5357	5357	
5°	5306	5340	5321	5345	5352	504
15°	5077	5112	5104	5129	5129	1432
25°	4622	4659	4648	4658	4642	2131
35°	3999	4034	4009	4009	3984	2498
45°	3231	3266	3240	3227	3207	2494
55°	2421	2438	2422	2418	2400	2165
65°	1600	1616	1616	1624	1620	1582
75°	800	824	852	858	865	852
85°	153	185	211	230	238	186
90°	0	3	4	9	8	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°	5356.9	5356.9	5356.9	5356.9	5356.9
2.5°	5327.6	5359.3	5337.2	5358.3	5382.8
5°	5306.2	5339.6	5321.1	5344.6	5351.5
7.5°	5274.8	5307.2	5289.5	5313.0	5320.1
10°	5221.7	5256.8	5242.8	5269.4	5276.9
12.5°	5159.7	5192.7	5183.5	5214.5	5219.6
15°	5076.6	5112.0	5104.1	5128.7	5129.0
17.5°	4984.6	5017.9	5012.2	5031.3	5030.5
20°	4882.8	4918.5	4906.3	4927.0	4920.5
22.5°	4762.1	4800.3	4784.9	4802.3	4786.0
25°	4622.1	4659.3	4648.4	4658.5	4641.5
27.5°	4486.5	4520.6	4498.1	4510.4	4492.3
30°	4335.3	4364.2	4346.9	4350.9	4329.2
32.5°	4165.3	4199.7	4178.5	4177.9	4154.7
35°	3999.0	4034.1	4009.3	4008.6	3983.7
37.5°	3815.1	3847.8	3818.5	3820.2	3791.2
40°	3627.4	3655.7	3627.4	3626.0	3599.5
42.5°	3423.6	3461.1	3435.3	3438.3	3402.9
45°	3231.2	3265.6	3240.1	3226.7	3207.0
47.5°	3039.4	3054.4	3033.3	3029.8	3001.9
50°	2836.4	2847.6	2831.6	2827.5	2796.2
52.5°	2626.5	2646.0	2625.5	2620.0	2599.3
55°	2421.4	2438.1	2421.7	2417.7	2399.9
57.5°	2215.0	2236.8	2220.1	2216.0	2201.7
60°	2008.6	2015.0	2010.9	2017.0	2003.1
62.5°	1803.5	1818.4	1823.2	1821.5	1810.6
65°	1600.1	1615.8	1616.1	1624.3	1620.2
67.5°	1391.9	1412.4	1418.2	1426.7	1430.4
70°	1196.0	1211.7	1228.8	1233.9	1230.1
72.5°	998.8	1024.0	1043.1	1047.5	1063.5
75°	799.9	823.7	851.7	857.8	864.9
77.5°	615.3	646.9	672.1	680.3	689.2
80°	440.2	475.2	500.4	511.6	528.7
82.5°	288.9	324.7	350.2	361.4	382.2
85°	153.3	185.3	210.9	229.6	238.5
87.5°	45.3	72.5	87.2	92.6	100.5
90°	0.0	3.4	4.1	9.2	8.5
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)