

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: P829822

Luminaire Tested: **OHBL-15SE-MCL-UNV-L850-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829822
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-15SE-MCL-UNV-L850-CD
Description: 15000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

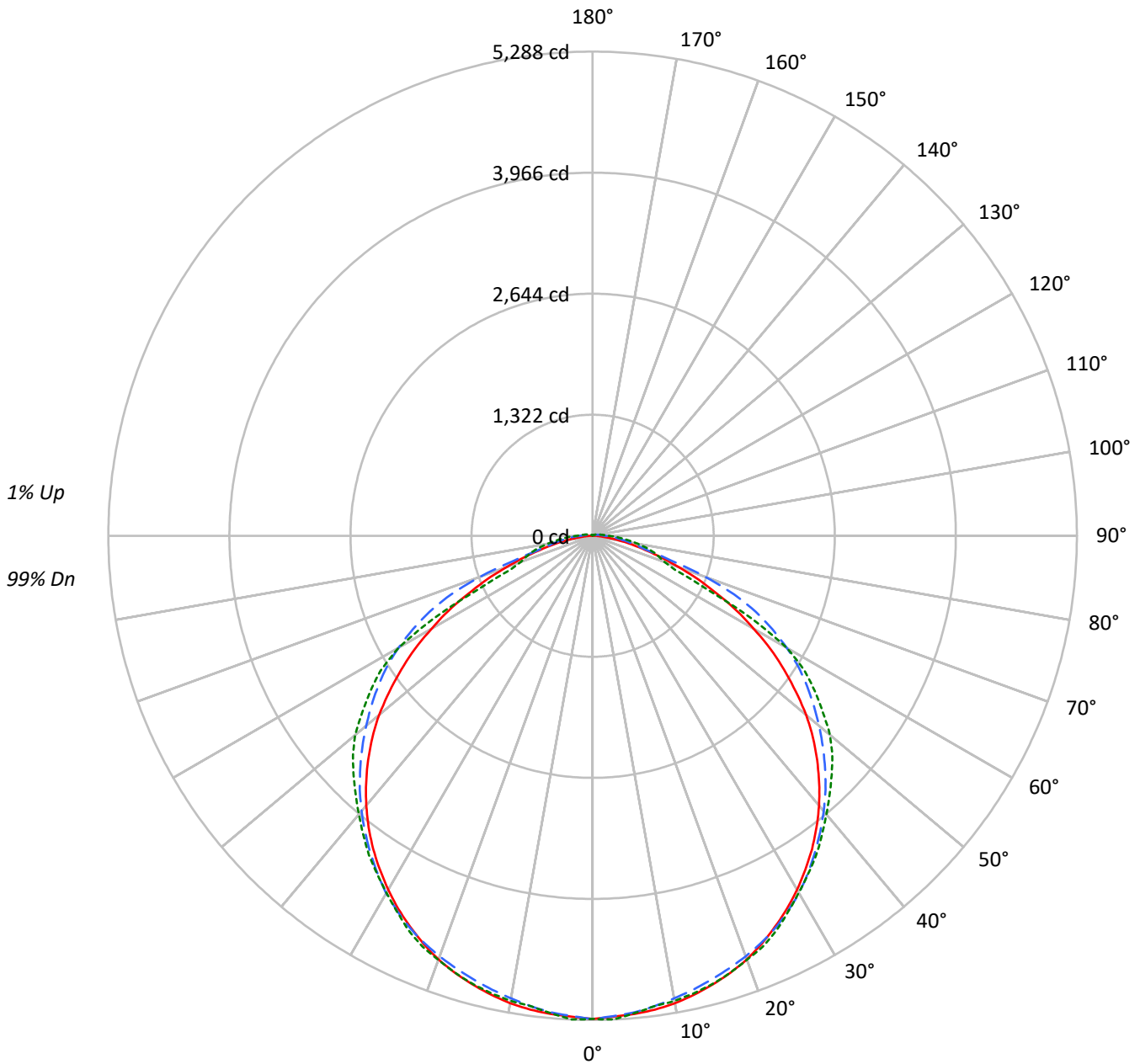
Lumens per Lamp: N/A
Luminaire Lumens: 14916.0 lumens
Efficiency: N/A
Efficacy: 171.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.88' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 87
Input Voltage (V): NR
Input Current (A_{in}): 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				20	
RC	80				70				50				30				10				0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	110	110	110	106	106	106	101	101	101	99				99
1	109	104	100	96	106	102	98	95	97	94	91	93	91	88	90	87	86	83				83
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72	70				70
3	91	80	72	66	88	79	71	65	75	69	64	72	67	63	70	65	61	59				59
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	62	57	53	51				51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	46	56	50	46	44				44
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40	38				38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34				34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	42	36	32	30				30
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29	27				27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26	24				24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17169	17169	17169
5°	17057	16818	16812
10°	16994	16465	16487
15°	16886	16179	16239
20°	16778	15962	15957
25°	16576	15743	15675
30°	16355	15453	15234
35°	16092	15050	14920
40°	15750	14633	14540
45°	15276	14162	14267
50°	14633	13633	13956
55°	13612	13097	13215
60°	12274	12369	11976
65°	10529	11161	7402
70°	8481	8506	5193
75°	6359	4882	5034
80°	4426	3853	4480
85°	2519	3216	3711



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	497.6	3.3
10°-20°	1426.9	9.6
20°-30°	2179.3	14.6
30°-40°	2644.2	17.7
40°-50°	2771.4	18.6
50°-60°	2511.3	16.8
60°-70°	1683.7	11.3
70°-80°	756.1	5.1
80°-90°	274.4	1.8
90°-100°	82.6	0.6
100°-110°	39.0	0.3
110°-120°	19.5	0.1
120°-130°	10.8	0.1
130°-140°	7.4	0.0
140°-150°	5.0	0.0
150°-160°	3.7	0.0
160°-170°	2.4	0.0
170°-180°	0.8	0.0
0°-30°	4103.8	27.5
0°-40°	6748.0	45.2
0°-60°	12030.7	80.7
0°-90°	14744.9	98.9
90°-120°	141.1	0.9
90°-150°	164.2	1.1
90°-180°	171.0	1.1
0°-180°	14916.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5277	5277	5277	5277	5277	
5°	5243	5261	5225	5241	5234	499
15°	5073	5053	5017	5061	5068	1432
25°	4713	4692	4725	4768	4755	2172
35°	4177	4187	4230	4275	4258	2611
45°	3467	3523	3589	3680	3692	2670
55°	2551	2674	2856	2971	2964	2277
65°	1497	1731	1966	1659	1354	1492
75°	589	855	629	643	685	644
85°	102	195	250	301	316	124
90°	1	65	129	162	169	6
95°	1	40	88	108	111	1
105°	3	18	44	53	55	4
115°	6	9	22	28	30	6
125°	5	6	14	16	17	5
135°	7	8	8	12	13	5
145°	7	8	8	8	9	5
155°	8	8	8	8	8	4
165°	8	8	8	8	8	2
175°	8	8	8	7	7	1
180°	8	8	8	8	8	



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CATALOG NUMBER: OHBL-15SE-MCL-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5277.3	5277.3	5277.3	5277.3	5277.3
2.5°	5255.9	5278.1	5250.6	5280.3	5288.0
5°	5243.0	5261.3	5224.6	5240.7	5233.8
7.5°	5219.3	5225.4	5181.9	5194.9	5181.1
10°	5184.2	5181.1	5130.0	5155.2	5158.3
12.5°	5132.3	5123.2	5077.4	5115.5	5116.3
15°	5072.8	5053.0	5017.1	5061.3	5067.5
17.5°	5004.1	4978.2	4954.5	5011.7	5002.6
20°	4924.0	4893.5	4888.9	4951.5	4928.6
22.5°	4824.8	4801.1	4811.8	4871.3	4856.8
25°	4712.6	4692.0	4724.8	4768.3	4754.6
27.5°	4594.4	4582.1	4619.5	4653.1	4626.4
30°	4464.6	4457.8	4507.4	4534.8	4501.3
32.5°	4323.5	4325.8	4373.1	4410.5	4379.2
35°	4177.0	4186.9	4229.6	4274.6	4257.9
37.5°	4016.0	4038.1	4080.8	4131.9	4114.4
40°	3845.8	3877.8	3925.2	3987.0	3970.9
42.5°	3661.9	3702.3	3763.4	3832.1	3830.5
45°	3466.6	3523.0	3588.7	3680.2	3691.7
47.5°	3263.6	3326.9	3410.1	3532.2	3549.7
50°	3043.1	3122.4	3226.2	3372.7	3383.4
52.5°	2797.4	2905.7	3043.1	3183.5	3170.5
55°	2550.9	2673.7	2856.1	2970.6	2963.7
57.5°	2305.2	2443.3	2664.6	2746.2	2745.5
60°	2030.5	2205.2	2447.1	2508.9	2447.9
62.5°	1776.4	1964.1	2215.2	2170.1	1961.1
65°	1497.1	1731.4	1965.6	1658.9	1354.4
67.5°	1249.1	1493.3	1669.6	1136.2	972.9
70°	999.6	1269.0	1301.8	843.2	831.7
72.5°	778.3	1065.2	898.1	721.9	758.5
75°	589.1	854.6	628.8	643.3	685.2
77.5°	429.6	656.2	489.1	563.9	598.2
80°	295.3	464.7	399.1	473.9	497.5
82.5°	185.4	306.7	319.7	381.5	405.9
85°	101.5	194.6	249.5	301.4	315.9
87.5°	42.0	117.5	190.8	232.7	244.9
90°	0.8	64.9	129.0	161.8	169.4
92.5°	0.8	49.6	105.3	130.5	135.8
95°	0.8	40.4	88.5	107.6	110.6
97.5°	1.5	32.0	74.0	89.3	92.3
100°	2.3	26.7	61.8	74.8	77.1
102.5°	3.1	21.4	51.9	62.6	64.9
105°	3.1	17.6	43.5	52.7	54.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	5.3	10.7	25.9	32.8	34.3
115°	6.1	9.2	22.1	28.2	29.8
117.5°	6.1	7.6	19.1	23.7	25.2
120°	6.1	6.9	16.8	20.6	21.4
122.5°	6.1	6.1	14.5	18.3	19.1
125°	5.3	6.1	13.7	16.0	16.8
127.5°	6.1	6.1	12.2	14.5	15.3
130°	6.1	6.9	10.7	13.7	13.7
132.5°	6.9	7.6	9.9	13.0	13.0
135°	6.9	7.6	8.4	12.2	13.0
137.5°	7.6	7.6	7.6	11.4	12.2
140°	7.6	7.6	6.9	9.9	10.7
142.5°	6.9	7.6	6.9	9.2	9.9
145°	6.9	7.6	7.6	8.4	9.2
147.5°	7.6	7.6	7.6	7.6	8.4
150°	7.6	7.6	7.6	7.6	7.6
152.5°	7.6	7.6	7.6	7.6	7.6
155°	7.6	8.4	8.4	8.4	7.6
157.5°	7.6	8.4	8.4	8.4	8.4
160°	7.6	8.4	8.4	8.4	8.4
162.5°	8.4	8.4	8.4	8.4	8.4
165°	8.4	8.4	8.4	8.4	8.4
167.5°	8.4	9.2	8.4	8.4	8.4
170°	8.4	8.4	8.4	7.6	7.6
172.5°	8.4	8.4	8.4	7.6	7.6
175°	8.4	8.4	7.6	6.9	6.9
177.5°	9.2	8.4	7.6	6.9	6.1
180°	7.6	7.6	7.6	7.6	7.6



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	3.8	14.5	37.4	45.0	46.5
110°	4.6	12.2	31.3	38.2	39.7



(END OF REPORT)