

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: P829834

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829834
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-15SE-MFL-UNV-L850-CD
Description: 15000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

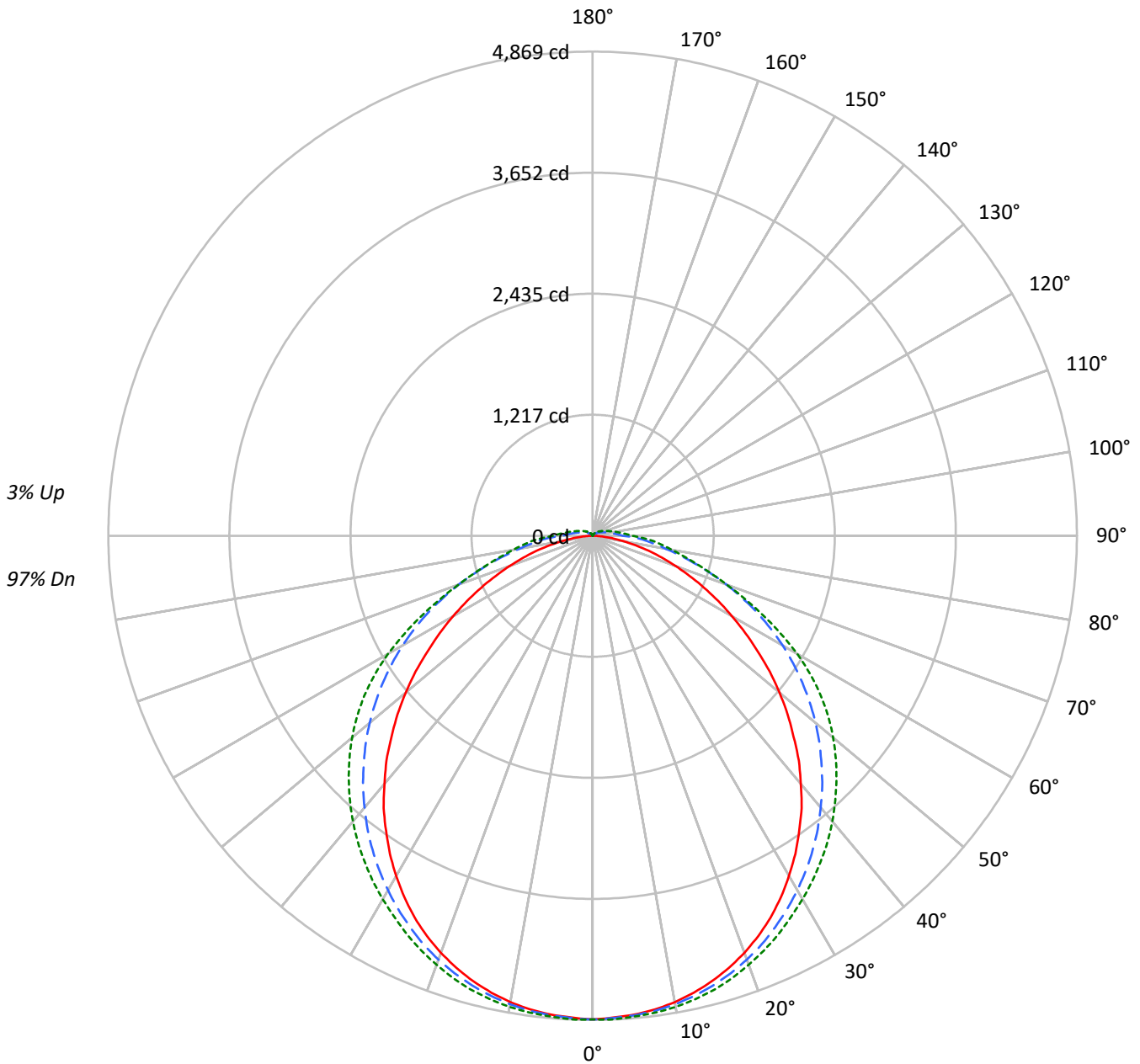
Lumens per Lamp: N/A
Luminaire Lumens: 14556.9 lumens
Efficiency: N/A
Efficacy: 167.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.88' x L: 3.78' x H: 0.17')
CIE Type: Direct

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				
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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	97
1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	82	82	82	80
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	68	68	68	66
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	58	58	58	56
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	50	50	50	47
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	43	43	43	41
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	38	38	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	34	34	34	32
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	30	30	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	27	27	27	25
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	25	25	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15824	15824	15824
5°	15723	15580	15589
10°	15613	15352	15379
15°	15438	15098	15144
20°	15207	14808	14861
25°	14897	14469	14575
30°	14469	14108	14286
35°	13951	13728	14011
40°	13329	13300	13730
45°	12595	12839	13401
50°	11792	12365	13021
55°	10805	11802	12489
60°	9794	11149	11618
65°	8690	10341	10331
70°	7494	9342	8949
75°	6283	8188	7871
80°	4763	7194	7279
85°	3013	6812	7188



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	460.9	3.2
10°-20°	1322.2	9.1
20°-30°	1999.6	13.7
30°-40°	2400.6	16.5
40°-50°	2479.4	17.0
50°-60°	2230.7	15.3
60°-70°	1680.3	11.5
70°-80°	1014.6	7.0
80°-90°	496.2	3.4
90°-100°	208.9	1.4
100°-110°	119.2	0.8
110°-120°	70.0	0.5
120°-130°	39.6	0.3
130°-140°	20.8	0.1
140°-150°	10.1	0.1
150°-160°	3.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3782.7	26.0
0°-40°	6183.3	42.5
0°-60°	10893.3	74.8
0°-90°	14084.5	96.8
90°-120°	398.1	2.7
90°-150°	468.7	3.2
90°-180°	472.0	3.2
0°-180°	14556.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4864	4864	4864	4864	4864	
5°	4833	4846	4840	4859	4853	459
15°	4638	4660	4682	4721	4726	1308
25°	4235	4282	4343	4410	4421	1948
35°	3621	3706	3858	3975	3998	2264
45°	2858	3002	3253	3431	3468	2207
55°	2025	2234	2574	2768	2801	1815
65°	1236	1488	1821	1912	1890	1228
75°	582	836	1055	1082	1071	621
85°	121	320	528	601	612	140
90°	0	125	302	381	396	8
95°	6	84	226	288	299	5
105°	8	49	131	171	179	8
115°	10	27	81	108	113	10
125°	10	13	49	70	74	9
135°	8	11	25	43	48	7
145°	12	11	12	21	25	7
155°	12	13	12	11	12	4
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4864.0	4864.0	4864.0	4864.0	4864.0
2.5°	4849.7	4861.6	4854.4	4869.9	4868.7
5°	4833.0	4846.1	4840.1	4859.2	4853.2
7.5°	4804.4	4818.7	4817.5	4839.0	4836.6
10°	4762.8	4778.2	4783.0	4811.6	4811.6
12.5°	4705.6	4725.9	4737.8	4772.3	4773.5
15°	4637.8	4660.4	4681.8	4721.1	4725.9
17.5°	4555.6	4584.2	4614.0	4659.2	4665.2
20°	4462.8	4494.9	4535.4	4583.0	4590.2
22.5°	4355.7	4393.8	4446.1	4502.1	4510.4
25°	4235.4	4281.9	4342.6	4410.4	4421.1
27.5°	4098.5	4152.1	4234.2	4310.4	4319.9
30°	3949.7	4012.8	4115.2	4205.7	4221.1
32.5°	3792.6	3865.2	3991.4	4092.6	4114.0
35°	3621.2	3705.7	3858.1	3974.7	3998.5
37.5°	3452.1	3545.0	3717.6	3850.9	3879.5
40°	3254.5	3370.0	3567.6	3715.2	3749.7
42.5°	3068.8	3193.8	3417.6	3578.3	3611.7
45°	2858.1	3002.2	3253.4	3430.7	3467.6
47.5°	2660.5	2816.5	3095.0	3278.3	3316.4
50°	2452.2	2623.6	2926.0	3117.6	3156.9
52.5°	2243.9	2428.4	2751.0	2949.8	2986.7
55°	2024.9	2234.4	2573.6	2767.7	2801.0
57.5°	1821.3	2042.7	2391.5	2576.0	2596.3
60°	1620.1	1849.9	2205.8	2367.7	2374.8
62.5°	1423.7	1665.4	2015.3	2143.9	2134.4
65°	1235.6	1488.0	1821.3	1911.8	1890.3
67.5°	1054.7	1315.4	1622.5	1680.8	1652.3
70°	883.3	1147.5	1429.7	1459.4	1433.2
72.5°	732.1	988.0	1234.4	1259.4	1240.4
75°	582.1	835.7	1054.7	1082.1	1071.4
77.5°	441.6	688.0	889.2	924.9	927.3
80°	317.8	553.5	745.2	801.1	808.3
82.5°	209.5	429.7	625.0	696.4	707.1
85°	121.4	320.2	528.5	601.1	611.9
87.5°	52.4	230.9	425.0	490.4	503.5
90°	0.0	125.0	302.4	380.9	396.4
92.5°	3.6	103.6	259.5	330.9	344.0
95°	6.0	84.5	226.2	288.1	298.8
97.5°	7.1	71.4	196.4	251.2	261.9
100°	7.1	61.9	170.2	220.2	229.7
102.5°	7.1	54.8	148.8	192.8	201.2
105°	8.3	48.8	130.9	171.4	178.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	9.5	32.1	90.5	121.4	126.2
115°	9.5	27.4	80.9	108.3	113.1
117.5°	10.7	23.8	71.4	97.6	101.2
120°	10.7	20.2	63.1	86.9	91.7
122.5°	10.7	16.7	55.9	78.6	82.1
125°	9.5	13.1	48.8	70.2	73.8
127.5°	8.3	10.7	41.7	63.1	66.7
130°	8.3	9.5	35.7	55.9	59.5
132.5°	8.3	10.7	29.8	48.8	53.6
135°	8.3	10.7	25.0	42.9	47.6
137.5°	8.3	10.7	20.2	36.9	41.7
140°	9.5	10.7	16.7	31.0	35.7
142.5°	10.7	10.7	13.1	26.2	29.8
145°	11.9	10.7	11.9	21.4	25.0
147.5°	11.9	11.9	11.9	16.7	20.2
150°	11.9	13.1	11.9	13.1	16.7
152.5°	11.9	13.1	11.9	10.7	13.1
155°	11.9	13.1	11.9	10.7	11.9
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-50001EG





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







107.5°	8.3	42.9	115.5	152.4	158.3
110°	8.3	38.1	102.4	135.7	141.7



(END OF REPORT)