

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: P828970

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828970
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: OHB-15SE-MFL-UNV-L850-CD
Description: 15000 LUMEN OHB SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

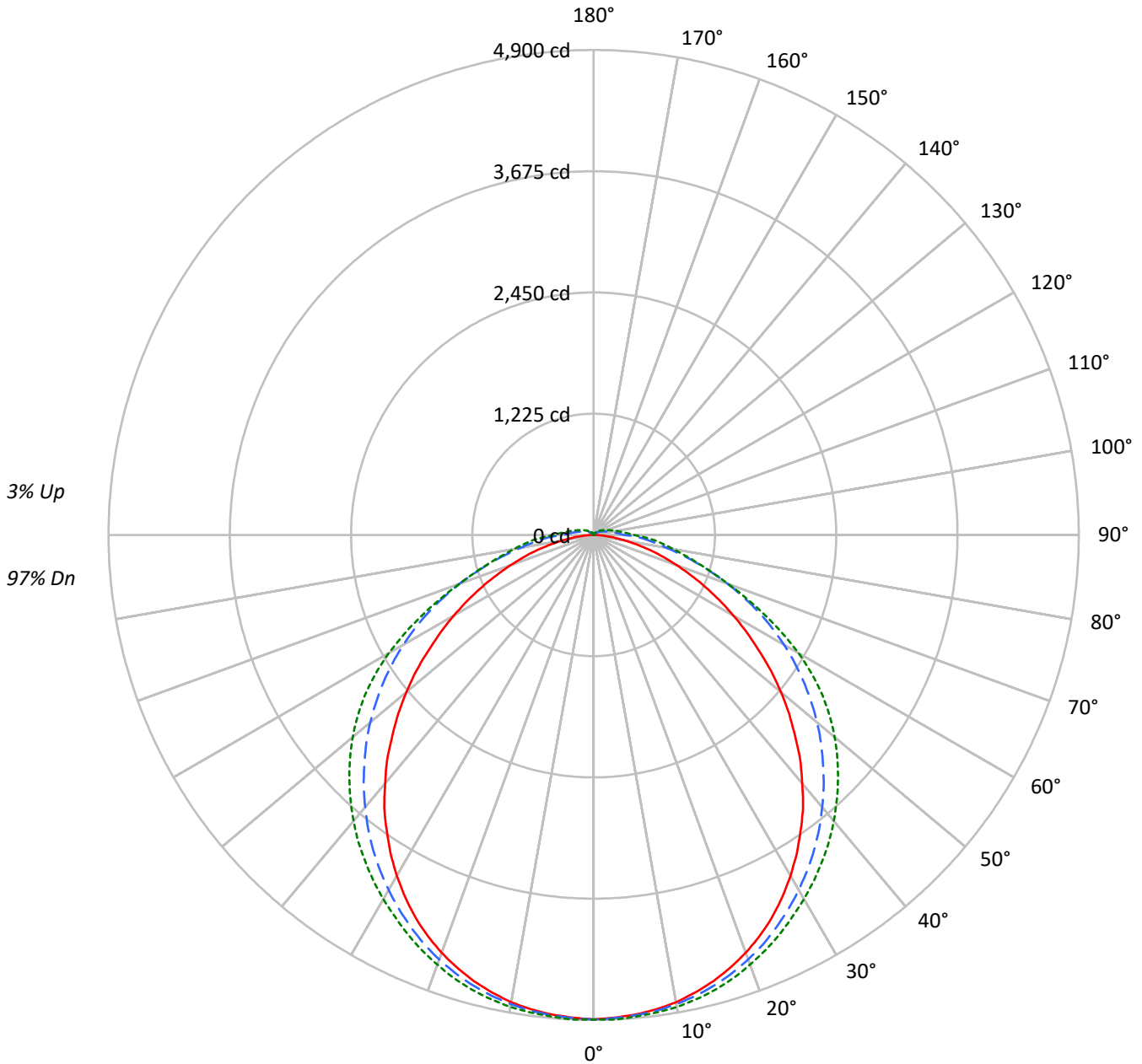
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14652.0 lumens
Efficiency: N/A
Efficacy: 150.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.88' x L: 1.93' x H: 0.17')
CIE Type: Direct

Input Watts (W): 97.1
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

TEST NUMBER: P828970
CATALOG NUMBER: OHB-15SE-MFL-UNV-L850-CD

Luminous Intensity Polar Plot





TEST NUMBER: P828970

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

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	97																	
1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	82	82	80																	
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	68	68	66																	
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	58	58	56																	
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	50	50	47																	
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	43	43	41																	
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	38	38	36																	
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	34	34	32																	
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	30	30	28																	
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	27	27	25																	
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	25	25	23																	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	31151	31151	31151
5°	30838	30593	30689
10°	30510	30067	30274
15°	30055	29496	29812
20°	29490	28856	29255
25°	28773	28121	28693
30°	27824	27344	28123
35°	26700	26529	27582
40°	25374	25620	27028
45°	23832	24644	26381
50°	22156	23640	25634
55°	20131	22460	24586
60°	18055	21102	22871
65°	15803	19442	20338
70°	13371	17410	17617
75°	10897	15083	15493
80°	7872	13028	14330
85°	4493	12000	14151



TEST NUMBER: P828970

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	463.9	3.2
10°-20°	1330.8	9.1
20°-30°	2012.7	13.7
30°-40°	2416.2	16.5
40°-50°	2495.6	17.0
50°-60°	2245.2	15.3
60°-70°	1691.3	11.5
70°-80°	1021.3	7.0
80°-90°	499.5	3.4
90°-100°	210.2	1.4
100°-110°	120.0	0.8
110°-120°	70.5	0.5
120°-130°	39.8	0.3
130°-140°	21.0	0.1
140°-150°	10.2	0.1
150°-160°	3.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3807.4	26.0
0°-40°	6223.6	42.5
0°-60°	10964.4	74.8
0°-90°	14176.5	96.8
90°-120°	400.7	2.7
90°-150°	471.8	3.2
90°-180°	476.0	3.2
0°-180°	14652.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4896	4896	4896	4896	4896	
5°	4864	4878	4872	4891	4885	462
15°	4668	4691	4712	4752	4757	1316
25°	4263	4310	4371	4439	4450	1961
35°	3645	3730	3883	4001	4025	2279
45°	2877	3022	3275	3453	3490	2221
55°	2038	2249	2590	2786	2819	1827
65°	1244	1498	1833	1924	1903	1236
75°	586	841	1062	1089	1078	625
85°	122	322	532	605	616	141
90°	0	126	304	383	399	8
95°	6	85	228	290	301	5
105°	8	49	132	172	180	8
115°	10	28	82	109	114	10
125°	10	13	49	71	74	9
135°	8	11	25	43	48	7
145°	12	11	12	22	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	



TEST NUMBER: P828970

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4895.7	4895.7	4895.7	4895.7	4895.7
2.5°	4881.3	4893.3	4886.1	4901.7	4900.5
5°	4864.5	4877.7	4871.7	4890.9	4884.9
7.5°	4835.8	4850.2	4849.0	4870.5	4868.1
10°	4793.9	4809.4	4814.2	4843.0	4843.0
12.5°	4736.3	4756.7	4768.7	4803.4	4804.6
15°	4668.0	4690.8	4712.4	4751.9	4756.7
17.5°	4585.4	4614.1	4644.1	4689.6	4695.6
20°	4491.9	4524.3	4565.0	4612.9	4620.1
22.5°	4384.1	4422.4	4475.1	4531.5	4539.8
25°	4263.1	4309.8	4370.9	4439.2	4450.0
27.5°	4125.3	4179.2	4261.9	4338.6	4348.1
30°	3975.5	4039.0	4142.1	4233.1	4248.7
32.5°	3817.4	3890.4	4017.4	4119.3	4140.9
35°	3644.8	3729.9	3883.3	4000.7	4024.6
37.5°	3474.7	3568.1	3741.9	3876.1	3904.8
40°	3275.8	3392.0	3590.9	3739.5	3774.2
42.5°	3088.9	3214.7	3439.9	3601.7	3635.2
45°	2876.8	3021.8	3274.6	3453.1	3490.3
47.5°	2677.9	2834.9	3115.2	3299.7	3338.1
50°	2468.2	2640.8	2945.1	3138.0	3177.5
52.5°	2258.5	2444.3	2769.0	2969.1	3006.2
55°	2038.1	2249.0	2590.4	2785.7	2819.3
57.5°	1833.2	2056.0	2407.1	2592.8	2613.2
60°	1630.7	1861.9	2220.2	2383.1	2390.3
62.5°	1433.0	1676.2	2028.5	2157.9	2148.3
65°	1243.7	1497.7	1833.2	1924.3	1902.7
67.5°	1061.6	1324.0	1633.1	1691.8	1663.1
70°	889.0	1155.0	1439.0	1468.9	1442.6
72.5°	736.9	994.5	1242.5	1267.7	1248.5
75°	585.9	841.1	1061.6	1089.1	1078.3
77.5°	444.5	692.5	895.0	931.0	933.4
80°	319.9	557.1	750.1	806.4	813.6
82.5°	210.9	432.5	629.0	700.9	711.7
85°	122.2	322.3	532.0	605.1	615.9
87.5°	52.7	232.4	427.7	493.6	506.8
90°	0.0	125.8	304.3	383.4	399.0
92.5°	3.6	104.2	261.2	333.1	346.3
95°	6.0	85.1	227.7	290.0	300.7
97.5°	7.2	71.9	197.7	252.8	263.6
100°	7.2	62.3	171.3	221.7	231.2
102.5°	7.2	55.1	149.8	194.1	202.5
105°	8.4	49.1	131.8	172.5	179.7



TEST NUMBER: P828970

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	9.6	32.4	91.1	122.2	127.0
115°	9.6	27.6	81.5	109.0	113.8
117.5°	10.8	24.0	71.9	98.2	101.8
120°	10.8	20.4	63.5	87.5	92.3
122.5°	10.8	16.8	56.3	79.1	82.7
125°	9.6	13.2	49.1	70.7	74.3
127.5°	8.4	10.8	41.9	63.5	67.1
130°	8.4	9.6	35.9	56.3	59.9
132.5°	8.4	10.8	30.0	49.1	53.9
135°	8.4	10.8	25.2	43.1	47.9
137.5°	8.4	10.8	20.4	37.1	41.9
140°	9.6	10.8	16.8	31.2	35.9
142.5°	10.8	10.8	13.2	26.4	30.0
145°	12.0	10.8	12.0	21.6	25.2
147.5°	12.0	12.0	12.0	16.8	20.4
150°	12.0	13.2	12.0	13.2	16.8
152.5°	12.0	13.2	12.0	10.8	13.2
155°	12.0	13.2	12.0	10.8	12.0
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-50001EG





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







107.5°	8.4	43.1	116.2	153.4	159.4
110°	8.4	38.3	103.0	136.6	142.6



(END OF REPORT)