

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: P829870

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829870
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-15SE-W-UNV-L850-CD
Description: 15000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

Summary

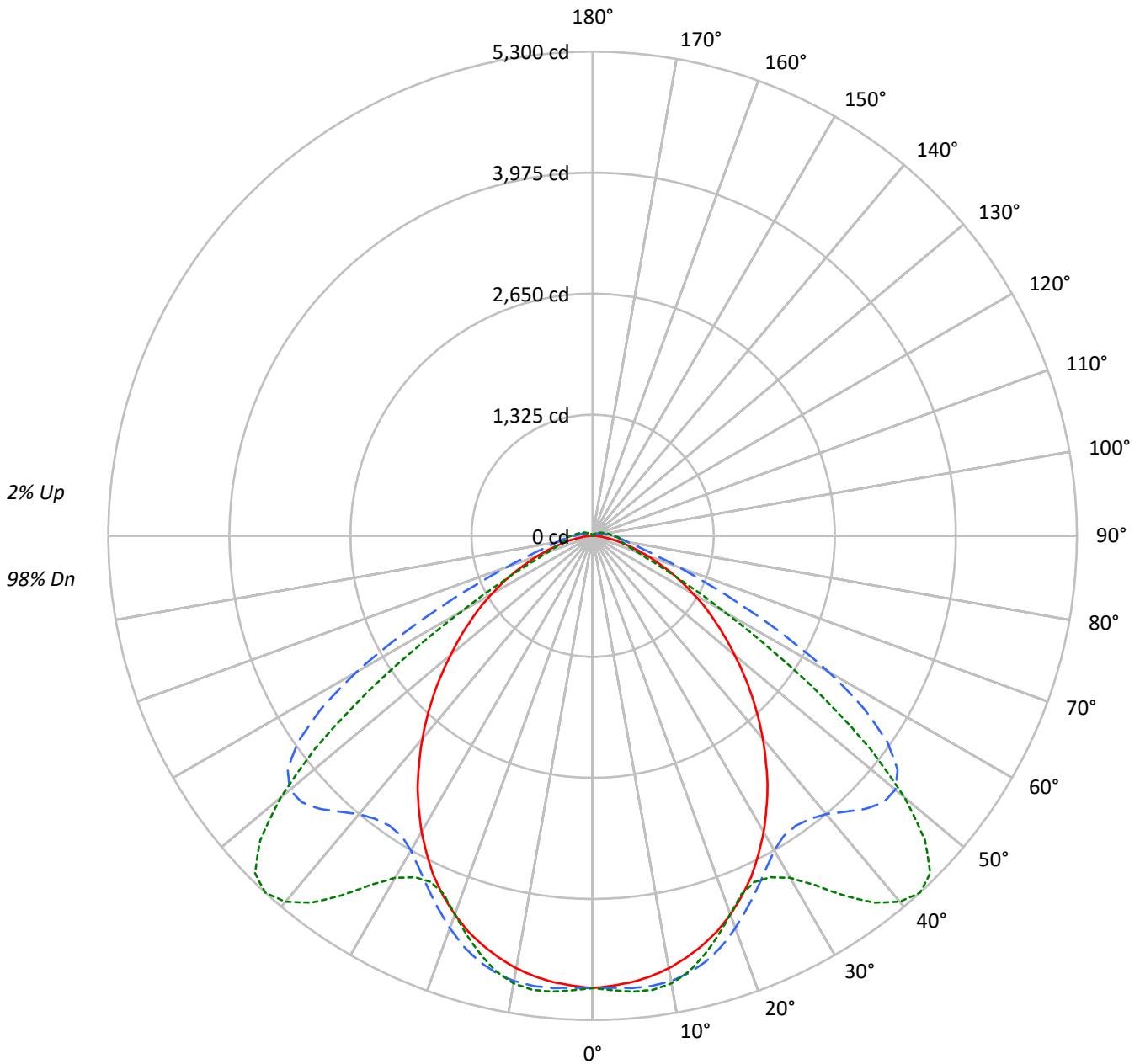
Lumens per Lamp: N/A
Luminaire Lumens: 14824.0 lumens
Efficiency: N/A
Efficacy: 170.4 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 0.88' x L: 3.78' x H: 0.17')
CIE Type: Direct

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									
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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100					98															
1	109	104	100	96	106	102	98	95	97	94	91	93	90	88	89	87	85					83															
2	99	91	85	79	96	89	83	78	85	80	76	82	77	74	78	75	72					70															
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	69	65	61					59															
4	83	71	62	56	80	69	61	55	67	60	54	64	58	53	62	57	52					50															
5	76	63	54	48	74	62	54	47	60	52	47	57	51	46	55	50	45					43															
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40					38															
7	65	51	43	36	63	50	42	36	49	41	36	47	40	35	45	40	35					33															
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31					29															
9	56	43	34	29	55	42	34	29	41	34	28	39	33	28	38	32	28					26															
10	52	39	31	26	51	39	31	26	38	31	26	36	30	26	35	30	25					24															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16107	16107	16107
5°	15957	15996	16085
10°	15756	15884	15902
15°	15449	15535	15198
20°	15028	14916	14266
25°	14465	14190	13790
30°	13715	13630	14627
35°	12860	13789	16851
40°	11868	14825	19149
45°	10831	16680	20190
50°	9749	18272	18377
55°	8732	18050	13679
60°	7697	15068	8100
65°	6603	10232	4711
70°	5366	6470	3221
75°	4081	4494	2762
80°	2930	3764	2751
85°	1988	3800	3425



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	473.1	3.2
10°-20°	1339.7	9.0
20°-30°	1960.5	13.2
30°-40°	2546.1	17.2
40°-50°	3109.1	21.0
50°-60°	2738.0	18.5
60°-70°	1426.8	9.6
70°-80°	611.9	4.1
80°-90°	293.9	2.0
90°-100°	138.0	0.9
100°-110°	85.8	0.6
110°-120°	50.7	0.3
120°-130°	27.6	0.2
130°-140°	13.8	0.1
140°-150°	6.7	0.0
150°-160°	2.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3773.3	25.5
0°-40°	6319.4	42.6
0°-60°	12166.5	82.1
0°-90°	14499.0	97.8
90°-120°	274.6	1.9
90°-150°	322.7	2.2
90°-180°	325.0	2.2
0°-180°	14824.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4951	4951	4951	4951	4951	
5°	4905	4942	4969	5013	5008	465
15°	4641	4772	4817	4781	4743	1307
25°	4112	4332	4259	4179	4183	1887
35°	3338	3690	3875	4519	4809	2081
45°	2458	3092	4227	5118	5224	1895
55°	1636	2709	3936	3451	3068	1469
65°	939	1877	1802	1002	862	929
75°	378	878	579	396	376	412
85°	80	313	295	288	292	89
90°	1	113	194	222	228	6
95°	2	66	155	182	187	2
105°	4	37	100	121	123	4
115°	6	21	62	76	78	7
125°	8	11	36	47	48	6
135°	6	6	17	29	30	5
145°	8	6	8	14	16	5
155°	8	8	6	6	6	3
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-W-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4950.9	4950.9	4950.9	4950.9	4950.9
2.5°	4929.6	4950.9	4952.0	4981.9	4978.7
5°	4905.0	4942.4	4969.1	5012.9	5007.6
7.5°	4864.4	4923.2	4970.2	5018.2	5014.0
10°	4806.7	4886.9	4948.8	4988.3	4975.5
12.5°	4732.0	4837.7	4898.6	4907.2	4882.6
15°	4641.2	4771.5	4817.4	4781.1	4742.7
17.5°	4538.6	4691.4	4707.4	4628.4	4580.3
20°	4410.5	4584.6	4568.5	4459.6	4406.2
22.5°	4268.4	4467.1	4415.8	4301.5	4250.2
25°	4112.4	4332.5	4258.8	4178.7	4182.9
27.5°	3929.8	4179.7	4108.2	4144.5	4212.8
30°	3743.9	4019.5	3975.7	4187.2	4321.8
32.5°	3539.9	3855.0	3894.5	4312.2	4532.2
35°	3338.0	3690.5	3875.3	4519.4	4808.9
37.5°	3114.8	3523.9	3906.3	4758.7	5062.0
40°	2897.9	3361.5	3976.8	4973.4	5229.7
42.5°	2676.8	3216.2	4095.3	5100.5	5300.2
45°	2457.8	3092.3	4226.7	5117.6	5224.4
47.5°	2238.9	2987.7	4317.5	4981.9	4932.8
50°	2027.4	2894.7	4323.9	4656.1	4455.3
52.5°	1829.8	2809.3	4206.4	4137.0	3825.1
55°	1636.4	2708.9	3936.2	3451.2	3067.8
57.5°	1460.2	2570.0	3519.6	2714.2	2295.5
60°	1273.3	2382.0	2981.2	1985.7	1655.7
62.5°	1101.3	2148.1	2377.7	1382.2	1189.9
65°	938.9	1876.8	1802.0	1001.9	862.0
67.5°	766.9	1595.8	1329.9	730.6	640.9
70°	632.4	1335.2	990.2	568.3	515.9
72.5°	494.6	1087.4	740.2	461.4	432.6
75°	378.1	878.0	578.9	396.3	376.0
77.5°	278.8	694.3	465.7	350.4	331.1
80°	195.5	546.9	389.9	313.0	305.5
82.5°	131.4	423.0	332.2	298.0	299.1
85°	80.1	313.0	294.8	288.4	291.6
87.5°	38.5	222.2	253.2	262.8	266.0
90°	1.1	113.2	194.4	222.2	227.5
92.5°	0.0	86.5	170.9	198.7	204.0
95°	2.1	66.2	154.9	181.6	186.9
97.5°	2.1	54.5	138.9	166.6	169.8
100°	3.2	47.0	123.9	150.6	153.8
102.5°	3.2	41.7	111.1	134.6	136.7
105°	4.3	37.4	100.4	120.7	122.8



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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6.4	25.6	70.5	85.5	87.6
115°	6.4	21.4	62.0	75.8	78.0
117.5°	7.5	19.2	54.5	67.3	68.4
120°	7.5	16.0	47.0	59.8	60.9
122.5°	7.5	12.8	41.7	53.4	54.5
125°	7.5	10.7	36.3	47.0	48.1
127.5°	6.4	7.5	31.0	41.7	42.7
130°	6.4	6.4	25.6	36.3	38.5
132.5°	6.4	6.4	21.4	32.0	34.2
135°	6.4	6.4	17.1	28.8	29.9
137.5°	6.4	6.4	13.9	24.6	26.7
140°	6.4	6.4	10.7	21.4	22.4
142.5°	7.5	6.4	9.6	18.2	19.2
145°	8.5	6.4	7.5	13.9	16.0
147.5°	8.5	7.5	7.5	11.7	12.8
150°	8.5	8.5	6.4	8.5	10.7
152.5°	8.5	8.5	6.4	6.4	8.5
155°	8.5	8.5	6.4	6.4	6.4
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°	5.3	33.1	89.7	107.9	110.0
110°	5.3	28.8	79.0	96.1	98.3



(END OF REPORT)