

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: P830014

Luminaire Tested: **OHBL-18SE-W-UNV-L850-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830014
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-18SE-W-UNV-L850-CD
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

Summary

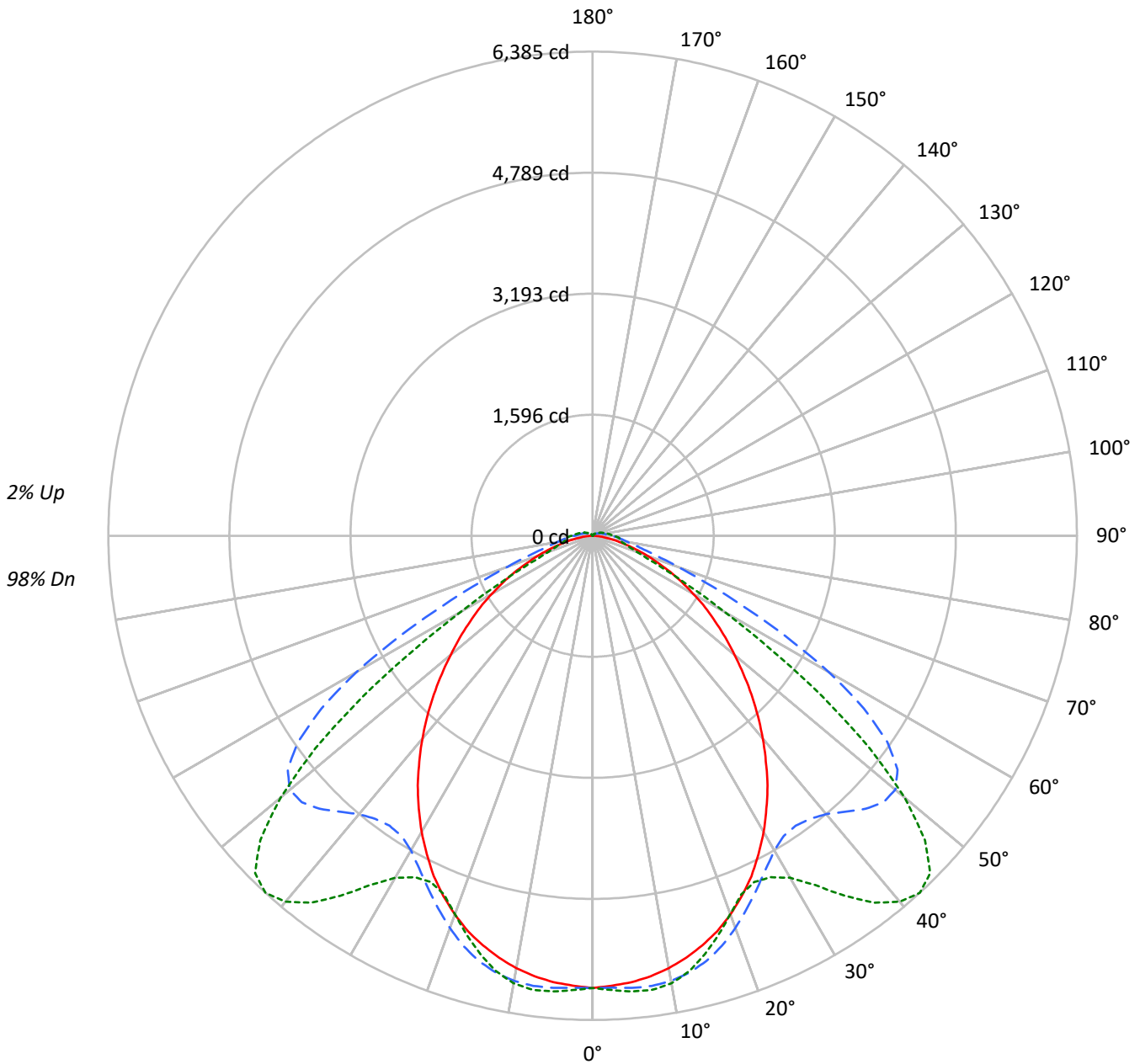
Lumens per Lamp: N/A
Luminaire Lumens: 17857.0 lumens
Efficiency: N/A
Efficacy: 170.1 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 105
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°	10186	10186	10186
5°	10091	10172	10252
10°	9965	10156	10215
15°	9770	9989	9838
20°	9504	9645	9308
25°	9148	9229	9073
30°	8674	8920	9707
35°	8133	9085	11288
40°	7506	9839	12958
45°	6849	11161	13819
50°	6165	12341	12742
55°	5522	12326	9629
60°	4868	10427	5807
65°	4176	7200	3455
70°	3393	4654	2435
75°	2581	3334	2176
80°	1853	2928	2310
85°	1257	3215	3212



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	569.9	3.2
10°-20°	1613.8	9.0
20°-30°	2361.6	13.2
30°-40°	3067.0	17.2
40°-50°	3745.2	21.0
50°-60°	3298.2	18.5
60°-70°	1718.7	9.6
70°-80°	737.1	4.1
80°-90°	354.0	2.0
90°-100°	166.3	0.9
100°-110°	103.4	0.6
110°-120°	61.1	0.3
120°-130°	33.2	0.2
130°-140°	16.7	0.1
140°-150°	8.0	0.0
150°-160°	2.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4545.3	25.5
0°-40°	7612.3	42.6
0°-60°	14655.8	82.1
0°-90°	17465.5	97.8
90°-120°	330.8	1.9
90°-150°	388.7	2.2
90°-180°	391.0	2.2
0°-180°	17857.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5964	5964	5964	5964	5964	
5°	5909	5954	5986	6038	6032	560
15°	5591	5748	5803	5759	5713	1574
25°	4954	5219	5130	5034	5039	2273
35°	4021	4446	4668	5444	5793	2506
45°	2961	3725	5092	6165	6293	2283
55°	1971	3263	4742	4157	3695	1769
65°	1131	2261	2171	1207	1038	1119
75°	456	1058	697	477	453	497
85°	96	377	355	347	351	108
90°	1	136	234	268	274	7
95°	3	80	187	219	225	2
105°	5	45	121	145	148	5
115°	8	26	75	91	94	8
125°	9	13	44	57	58	8
135°	8	8	21	35	36	6
145°	10	8	9	17	19	6
155°	10	10	8	8	8	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-18SE-W-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5963.9	5963.9	5963.9	5963.9	5963.9
2.5°	5938.2	5963.9	5965.2	6001.2	5997.4
5°	5908.6	5953.6	5985.8	6038.5	6032.1
7.5°	5859.7	5930.5	5987.1	6045.0	6039.8
10°	5790.2	5886.7	5961.3	6008.9	5993.5
12.5°	5700.1	5827.5	5900.9	5911.2	5881.6
15°	5590.8	5747.7	5803.1	5759.3	5713.0
17.5°	5467.2	5651.2	5670.5	5575.3	5517.4
20°	5312.8	5522.6	5503.3	5372.0	5307.7
22.5°	5141.7	5381.0	5319.3	5181.6	5119.8
25°	4953.8	5218.9	5130.1	5033.6	5038.8
27.5°	4733.8	5034.9	4948.7	4992.4	5074.8
30°	4509.9	4841.9	4789.1	5043.9	5206.0
32.5°	4264.2	4643.7	4691.4	5194.5	5459.5
35°	4021.0	4445.6	4668.2	5444.1	5792.8
37.5°	3752.1	4244.9	4705.5	5732.3	6097.7
40°	3490.9	4049.3	4790.4	5990.9	6299.7
42.5°	3224.5	3874.3	4933.3	6144.1	6384.7
45°	2960.7	3725.0	5091.5	6164.6	6293.3
47.5°	2696.9	3598.9	5200.9	6001.2	5942.0
50°	2442.2	3487.0	5208.6	5608.8	5366.9
52.5°	2204.1	3384.1	5067.1	4983.4	4607.7
55°	1971.2	3263.1	4741.5	4157.4	3695.4
57.5°	1758.9	3095.8	4239.7	3269.5	2765.1
60°	1533.8	2869.4	3591.2	2392.0	1994.4
62.5°	1326.6	2587.6	2864.2	1665.0	1433.4
65°	1131.0	2260.8	2170.7	1206.9	1038.4
67.5°	923.9	1922.3	1602.0	880.1	772.0
70°	761.7	1608.4	1192.8	684.5	621.5
72.5°	595.7	1309.9	891.7	555.9	521.1
75°	455.5	1057.7	697.4	477.4	452.9
77.5°	335.8	836.4	561.0	422.0	398.9
80°	235.5	658.8	469.7	377.0	368.0
82.5°	158.3	509.5	400.2	359.0	360.3
85°	96.5	377.0	355.1	347.4	351.3
87.5°	46.3	267.6	305.0	316.5	320.4
90°	1.3	136.4	234.2	267.6	274.1
92.5°	0.0	104.2	205.9	239.3	245.8
95°	2.6	79.8	186.6	218.7	225.2
97.5°	2.6	65.6	167.3	200.7	204.6
100°	3.9	56.6	149.3	181.4	185.3
102.5°	3.9	50.2	133.8	162.1	164.7
105°	5.1	45.0	121.0	145.4	148.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	7.7	30.9	84.9	102.9	105.5
115°	7.7	25.7	74.6	91.4	93.9
117.5°	9.0	23.2	65.6	81.1	82.3
120°	9.0	19.3	56.6	72.1	73.3
122.5°	9.0	15.4	50.2	64.3	65.6
125°	9.0	12.9	43.7	56.6	57.9
127.5°	7.7	9.0	37.3	50.2	51.5
130°	7.7	7.7	30.9	43.7	46.3
132.5°	7.7	7.7	25.7	38.6	41.2
135°	7.7	7.7	20.6	34.7	36.0
137.5°	7.7	7.7	16.7	29.6	32.2
140°	7.7	7.7	12.9	25.7	27.0
142.5°	9.0	7.7	11.6	21.9	23.2
145°	10.3	7.7	9.0	16.7	19.3
147.5°	10.3	9.0	9.0	14.2	15.4
150°	10.3	10.3	7.7	10.3	12.9
152.5°	10.3	10.3	7.7	7.7	10.3
155°	10.3	10.3	7.7	7.7	7.7
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°	6.4	39.9	108.1	130.0	132.5
110°	6.4	34.7	95.2	115.8	118.4



(END OF REPORT)