

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: P829966

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829966
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-18SE-MCL-UNV-L850-CD
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

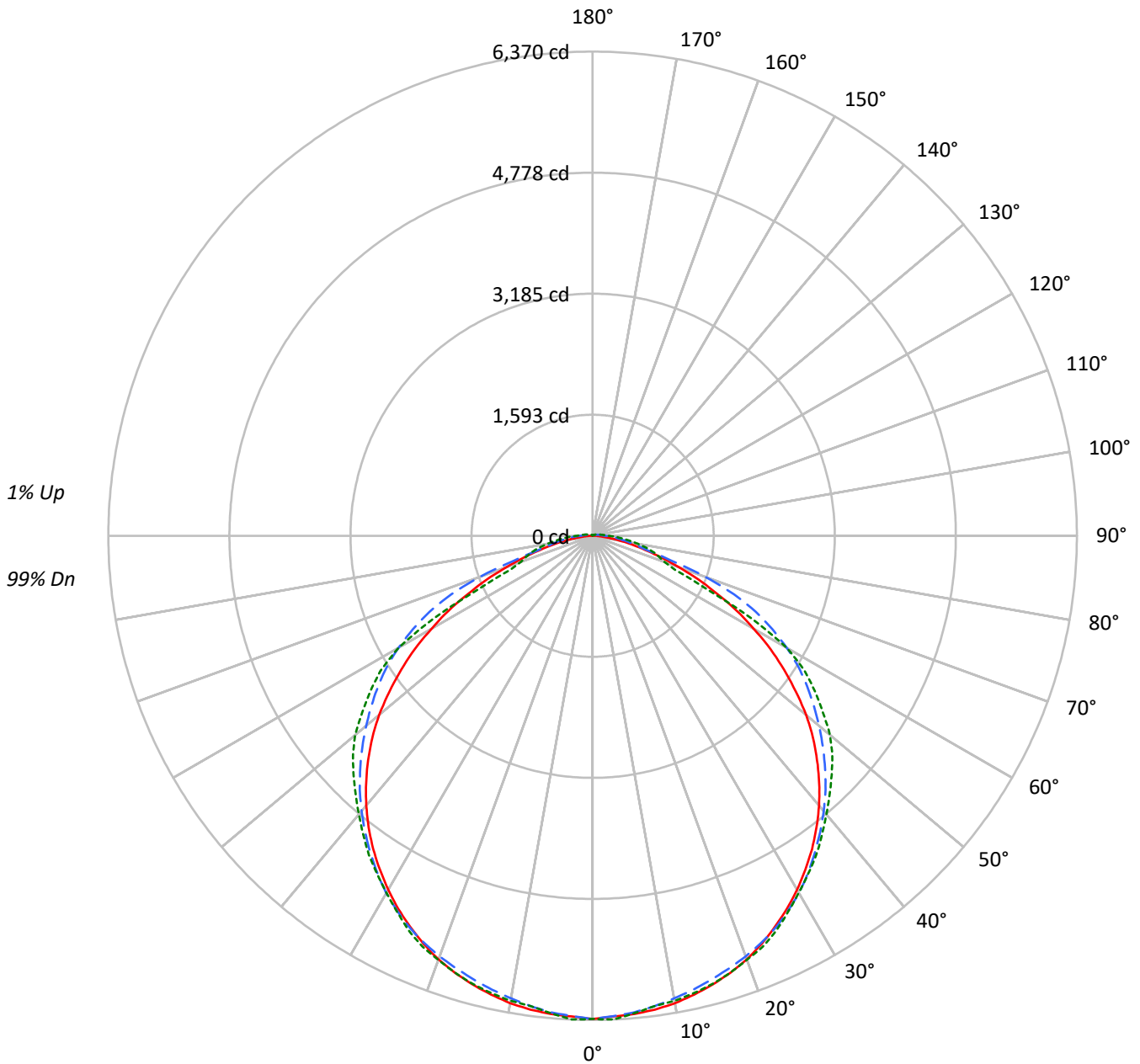
Lumens per Lamp: N/A
Luminaire Lumens: 17967.0 lumens
Efficiency: N/A
Efficacy: 171.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 105
Input Voltage (V): NR
Input Current (Ain): 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	106	106	106	101	101	101					99															
1	109	104	100	96	106	102	98	95	97	94	91	93	91	88	90	87	86					83															
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72					70															
3	91	80	72	66	88	79	71	65	75	69	64	72	67	63	70	65	61					59															
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	62	57	53					51															
5	76	64	55	48	74	62	54	48	60	53	47	58	52	46	56	50	46					44															
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40					38															
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36					34															
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	42	36	32					30															
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29					27															
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26					24															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10857	10857	10857
5°	10786	10695	10715
10°	10747	10528	10589
15°	10679	10402	10512
20°	10610	10321	10412
25°	10482	10239	10312
30°	10343	10113	10110
35°	10176	9916	9994
40°	9960	9711	9839
45°	9660	9476	9764
50°	9254	9208	9676
55°	8608	8943	9302
60°	7762	8559	8585
65°	6658	7853	5429
70°	5363	6118	3925
75°	4021	3621	3966
80°	2799	2996	3761
85°	1592	2721	3479



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	599.4	3.3
10°-20°	1718.7	9.6
20°-30°	2625.1	14.6
30°-40°	3185.1	17.7
40°-50°	3338.3	18.6
50°-60°	3025.0	16.8
60°-70°	2028.1	11.3
70°-80°	910.7	5.1
80°-90°	330.5	1.8
90°-100°	99.5	0.6
100°-110°	46.9	0.3
110°-120°	23.5	0.1
120°-130°	13.0	0.1
130°-140°	8.9	0.0
140°-150°	6.0	0.0
150°-160°	4.5	0.0
160°-170°	2.9	0.0
170°-180°	0.9	0.0
0°-30°	4943.2	27.5
0°-40°	8128.3	45.2
0°-60°	14491.6	80.7
0°-90°	17760.9	98.9
90°-120°	169.9	0.9
90°-150°	197.9	1.1
90°-180°	206.0	1.1
0°-180°	17967.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6357	6357	6357	6357	6357	
5°	6315	6337	6293	6313	6304	601
15°	6110	6086	6043	6097	6104	1725
25°	5677	5652	5691	5744	5727	2617
35°	5031	5043	5095	5149	5129	3145
45°	4176	4244	4323	4433	4447	3217
55°	3073	3221	3440	3578	3570	2743
65°	1803	2086	2368	1998	1632	1797
75°	710	1029	757	775	825	775
85°	122	234	301	363	380	149
90°	1	78	155	195	204	7
95°	1	49	107	130	133	1
105°	4	21	52	63	66	4
115°	7	11	27	34	36	7
125°	6	7	16	19	20	6
135°	8	9	10	15	16	7
145°	8	9	9	10	11	5
155°	9	10	10	10	9	4
165°	10	10	10	10	10	3
175°	10	10	9	8	8	1
180°	9	9	9	9	9	



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CATALOG NUMBER: OHBL-18SE-MCL-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6356.7	6356.7	6356.7	6356.7	6356.7
2.5°	6331.0	6357.7	6324.6	6360.4	6369.6
5°	6315.4	6337.4	6293.3	6312.6	6304.3
7.5°	6286.9	6294.2	6241.8	6257.5	6240.9
10°	6244.6	6240.9	6179.3	6209.7	6213.4
12.5°	6182.1	6171.1	6115.9	6161.9	6162.8
15°	6110.4	6086.5	6043.3	6096.6	6104.0
17.5°	6027.7	5996.4	5967.9	6036.9	6025.9
20°	5931.2	5894.4	5888.9	5964.3	5936.7
22.5°	5811.7	5783.2	5796.1	5867.8	5850.3
25°	5676.6	5651.8	5691.3	5743.7	5727.1
27.5°	5534.1	5519.4	5564.4	5604.9	5572.7
30°	5377.9	5369.6	5429.3	5462.4	5422.0
32.5°	5207.8	5210.6	5267.6	5312.6	5274.9
35°	5031.3	5043.3	5094.8	5149.0	5128.8
37.5°	4837.4	4864.1	4915.5	4977.1	4956.0
40°	4632.4	4671.0	4728.0	4802.5	4783.2
42.5°	4410.9	4459.6	4533.2	4615.9	4614.1
45°	4175.6	4243.6	4322.7	4433.0	4446.8
47.5°	3931.1	4007.4	4107.6	4254.7	4275.8
50°	3665.5	3761.1	3886.1	4062.6	4075.4
52.5°	3369.6	3500.1	3665.5	3834.6	3819.0
55°	3072.7	3220.7	3440.3	3578.2	3569.9
57.5°	2776.7	2943.1	3209.6	3308.0	3307.0
60°	2445.8	2656.3	2947.7	3022.1	2948.6
62.5°	2139.7	2365.9	2668.2	2614.0	2362.2
65°	1803.3	2085.5	2367.7	1998.2	1631.5
67.5°	1504.6	1798.7	2011.1	1368.6	1171.9
70°	1204.1	1528.5	1568.0	1015.6	1001.9
72.5°	937.5	1283.1	1081.8	869.5	913.6
75°	709.6	1029.4	757.4	774.8	825.4
77.5°	517.5	790.5	589.2	679.2	720.6
80°	355.7	559.8	480.7	570.8	599.3
82.5°	223.3	369.5	385.1	459.6	489.0
85°	122.2	234.4	300.6	363.1	380.5
87.5°	50.6	141.5	229.8	280.3	295.0
90°	0.9	78.1	155.3	194.9	204.0
92.5°	0.9	59.7	126.8	157.2	163.6
95°	0.9	48.7	106.6	129.6	133.3
97.5°	1.8	38.6	89.2	107.5	111.2
100°	2.8	32.2	74.4	90.1	92.8
102.5°	3.7	25.7	62.5	75.4	78.1
105°	3.7	21.1	52.4	63.4	66.2



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CATALOG NUMBER: OHBL-18SE-MCL-UNV-L850-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6.4	12.9	31.3	39.5	41.4
115°	7.4	11.0	26.7	34.0	35.8
117.5°	7.4	9.2	23.0	28.5	30.3
120°	7.4	8.3	20.2	24.8	25.7
122.5°	7.4	7.4	17.5	22.1	23.0
125°	6.4	7.4	16.5	19.3	20.2
127.5°	7.4	7.4	14.7	17.5	18.4
130°	7.4	8.3	12.9	16.5	16.5
132.5°	8.3	9.2	11.9	15.6	15.6
135°	8.3	9.2	10.1	14.7	15.6
137.5°	9.2	9.2	9.2	13.8	14.7
140°	9.2	9.2	8.3	11.9	12.9
142.5°	8.3	9.2	8.3	11.0	11.9
145°	8.3	9.2	9.2	10.1	11.0
147.5°	9.2	9.2	9.2	9.2	10.1
150°	9.2	9.2	9.2	9.2	9.2
152.5°	9.2	9.2	9.2	9.2	9.2
155°	9.2	10.1	10.1	10.1	9.2
157.5°	9.2	10.1	10.1	10.1	10.1
160°	9.2	10.1	10.1	10.1	10.1
162.5°	10.1	10.1	10.1	10.1	10.1
165°	10.1	10.1	10.1	10.1	10.1
167.5°	10.1	11.0	10.1	10.1	10.1
170°	10.1	10.1	10.1	9.2	9.2
172.5°	10.1	10.1	10.1	9.2	9.2
175°	10.1	10.1	9.2	8.3	8.3
177.5°	11.0	10.1	9.2	8.3	7.4
180°	9.2	9.2	9.2	9.2	9.2



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	4.6	17.5	45.0	54.2	56.1
110°	5.5	14.7	37.7	46.0	47.8



(END OF REPORT)