

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: P829906

Luminaire Tested: **OHBL-18HE-MFL-UNV-L850-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829906
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-18HE-MFL-UNV-L850-CD
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

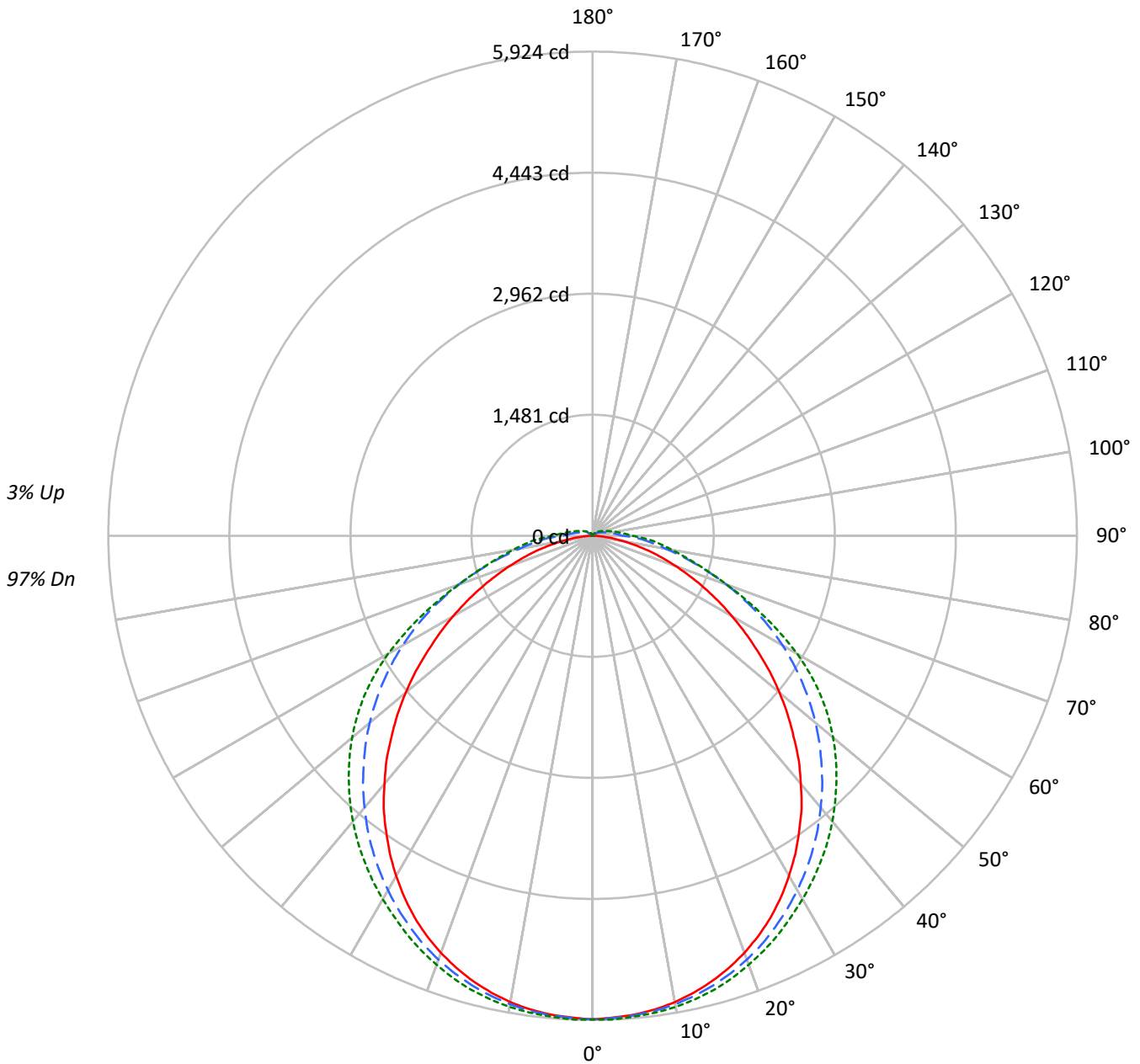
Lumens per Lamp: N/A
Luminaire Lumens: 17711.0 lumens
Efficiency: N/A
Efficacy: 172.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 103
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: P829906

CATALOG NUMBER: OHBL-18HE-MFL-UNV-L850-CD

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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°	10108	10108	10108
5°	10043	10007	10036
10°	9972	9914	9977
15°	9861	9805	9902
20°	9713	9671	9794
25°	9516	9505	9685
30°	9242	9326	9576
35°	8911	9136	9480
40°	8514	8916	9384
45°	8045	8677	9264
50°	7532	8435	9119
55°	6902	8140	8880
60°	6256	7792	8413
65°	5551	7349	7653
70°	4787	6786	6831
75°	4013	6135	6264
80°	3043	5651	6172
85°	1925	5822	6807



TEST NUMBER: P829906

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	560.7	3.2
10°-20°	1608.7	9.1
20°-30°	2432.9	13.7
30°-40°	2920.7	16.5
40°-50°	3016.6	17.0
50°-60°	2714.0	15.3
60°-70°	2044.4	11.5
70°-80°	1234.5	7.0
80°-90°	603.8	3.4
90°-100°	254.1	1.4
100°-110°	145.1	0.8
110°-120°	85.2	0.5
120°-130°	48.2	0.3
130°-140°	25.3	0.1
140°-150°	12.3	0.1
150°-160°	4.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4602.3	26.0
0°-40°	7523.0	42.5
0°-60°	13253.6	74.8
0°-90°	17136.2	96.8
90°-120°	484.3	2.7
90°-150°	570.2	3.2
90°-180°	575.0	3.2
0°-180°	17711.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5918	5918	5918	5918	5918	
5°	5880	5896	5889	5912	5905	559
15°	5643	5670	5696	5744	5750	1591
25°	5153	5210	5283	5366	5379	2370
35°	4406	4509	4694	4836	4865	2754
45°	3477	3653	3958	4174	4219	2685
55°	2464	2718	3131	3367	3408	2209
65°	1503	1810	2216	2326	2300	1494
75°	708	1017	1283	1316	1304	756
85°	148	390	643	731	744	171
90°	0	152	368	464	482	9
95°	7	103	275	350	364	6
105°	10	59	159	209	217	10
115°	12	33	98	132	138	12
125°	12	16	59	86	90	10
135°	10	13	30	52	58	8
145°	14	13	14	26	30	9
155°	14	16	14	13	14	4
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P829906

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5917.8	5917.8	5917.8	5917.8	5917.8
2.5°	5900.4	5914.9	5906.2	5925.1	5923.6
5°	5880.2	5896.1	5888.8	5912.0	5904.8
7.5°	5845.4	5862.8	5861.3	5887.4	5884.5
10°	5794.7	5813.5	5819.3	5854.1	5854.1
12.5°	5725.2	5749.8	5764.3	5806.3	5807.7
15°	5642.6	5670.1	5696.2	5744.0	5749.8
17.5°	5542.7	5577.5	5613.7	5668.7	5675.9
20°	5429.7	5468.8	5518.1	5576.0	5584.7
22.5°	5299.4	5345.7	5409.5	5477.5	5487.7
25°	5153.1	5209.6	5283.4	5366.0	5379.0
27.5°	4986.5	5051.7	5151.7	5244.3	5255.9
30°	4805.5	4882.3	5006.8	5116.9	5135.7
32.5°	4614.3	4702.7	4856.2	4979.3	5005.4
35°	4405.8	4508.6	4694.0	4835.9	4864.9
37.5°	4200.1	4313.1	4523.1	4685.3	4720.1
40°	3959.7	4100.2	4340.6	4520.2	4562.2
42.5°	3733.8	3885.8	4158.1	4353.6	4394.2
45°	3477.4	3652.6	3958.2	4174.0	4218.9
47.5°	3237.0	3426.7	3765.6	3988.7	4035.0
50°	2983.5	3192.1	3560.0	3793.1	3840.9
52.5°	2730.1	2954.6	3347.1	3588.9	3633.8
55°	2463.6	2718.5	3131.3	3367.3	3407.9
57.5°	2215.9	2485.3	2909.7	3134.2	3158.8
60°	1971.2	2250.7	2683.7	2880.7	2889.4
62.5°	1732.2	2026.2	2452.0	2608.4	2596.8
65°	1503.3	1810.4	2215.9	2326.0	2299.9
67.5°	1283.2	1600.4	1974.1	2045.0	2010.3
70°	1074.6	1396.2	1739.4	1775.6	1743.8
72.5°	890.7	1202.1	1501.9	1532.3	1509.1
75°	708.2	1016.7	1283.2	1316.5	1303.5
77.5°	537.3	837.1	1081.9	1125.3	1128.2
80°	386.7	673.5	906.6	974.7	983.4
82.5°	254.9	522.8	760.4	847.3	860.3
85°	147.7	389.6	643.1	731.4	744.4
87.5°	63.7	281.0	517.0	596.7	612.6
90°	0.0	152.1	367.9	463.5	482.3
92.5°	4.3	126.0	315.7	402.6	418.6
95°	7.2	102.8	275.2	350.5	363.5
97.5°	8.7	86.9	239.0	305.6	318.6
100°	8.7	75.3	207.1	267.9	279.5
102.5°	8.7	66.6	181.0	234.6	244.8
105°	10.1	59.4	159.3	208.6	217.2



TEST NUMBER: P829906

CATALOG NUMBER: OHBL-18HE-MFL-UNV-L850-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	11.6	39.1	110.1	147.7	153.5
115°	11.6	33.3	98.5	131.8	137.6
117.5°	13.0	29.0	86.9	118.8	123.1
120°	13.0	24.6	76.8	105.7	111.5
122.5°	13.0	20.3	68.1	95.6	99.9
125°	11.6	15.9	59.4	85.5	89.8
127.5°	10.1	13.0	50.7	76.8	81.1
130°	10.1	11.6	43.4	68.1	72.4
132.5°	10.1	13.0	36.2	59.4	65.2
135°	10.1	13.0	30.4	52.1	57.9
137.5°	10.1	13.0	24.6	44.9	50.7
140°	11.6	13.0	20.3	37.7	43.4
142.5°	13.0	13.0	15.9	31.9	36.2
145°	14.5	13.0	14.5	26.1	30.4
147.5°	14.5	14.5	14.5	20.3	24.6
150°	14.5	15.9	14.5	15.9	20.3
152.5°	14.5	15.9	14.5	13.0	15.9
155°	14.5	15.9	14.5	13.0	14.5
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°	10.1	52.1	140.5	185.4	192.6
110°	10.1	46.3	124.6	165.1	172.3



(END OF REPORT)