

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: P829965

Luminaire Tested: **OHBL-18SE-MCL-UNV-L840-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829965
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-L840-CD
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

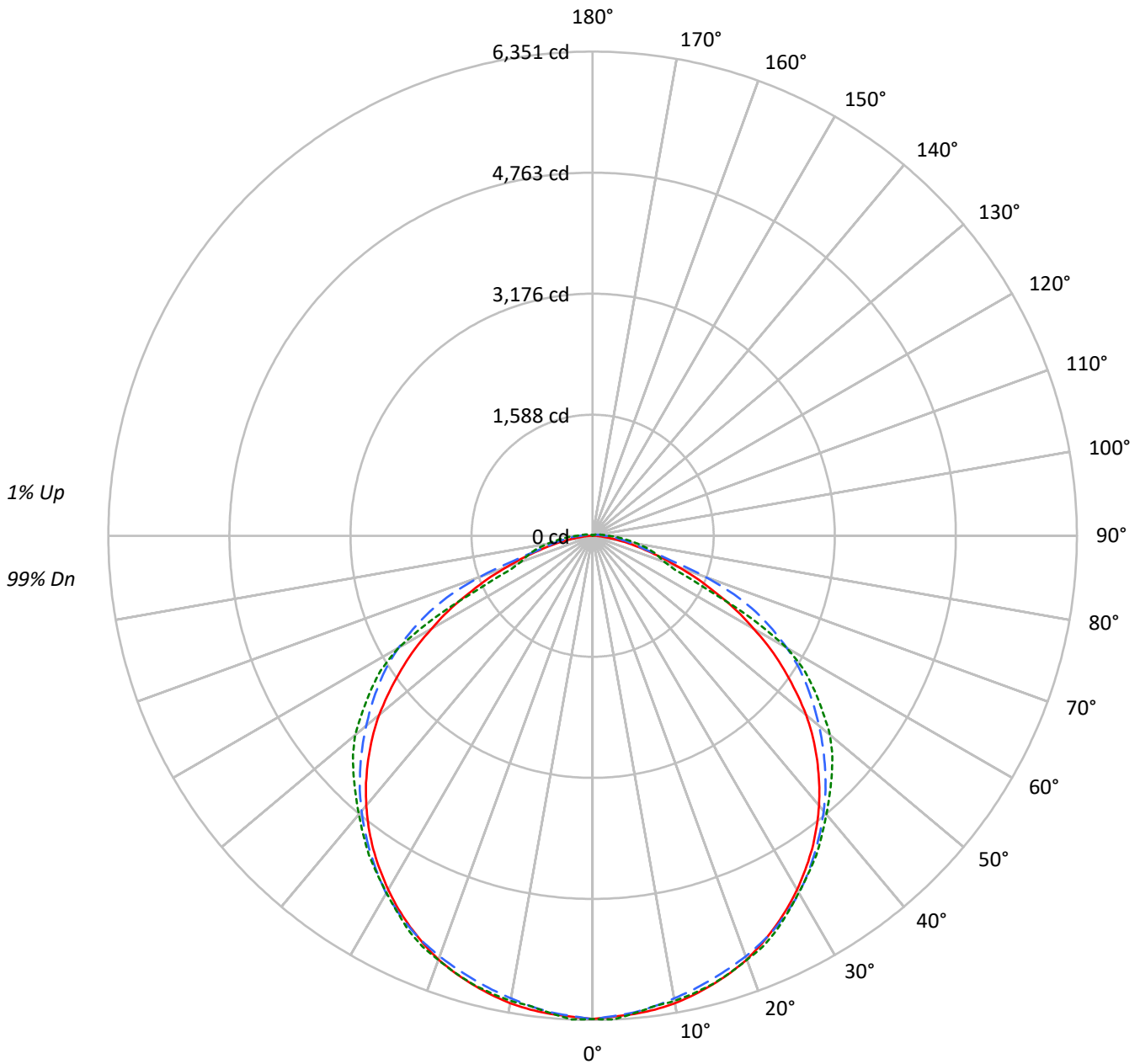
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17915.0 lumens
Efficiency: N/A
Efficacy: 170.6 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 (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: P829965
CATALOG NUMBER: OHBL-18SE-MCL-UNV-L840-CD

Luminous Intensity Polar Plot





TEST NUMBER: P829965

CATALOG NUMBER: OHBL-18SE-MCL-UNV-L840-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	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°	10826	10826	10826
5°	10755	10664	10684
10°	10716	10498	10559
15°	10648	10372	10481
20°	10580	10291	10381
25°	10452	10209	10282
30°	10313	10084	10080
35°	10147	9887	9965
40°	9931	9683	9810
45°	9632	9448	9736
50°	9227	9181	9648
55°	8583	8917	9275
60°	7740	8534	8560
65°	6639	7830	5413
70°	5348	6100	3913
75°	4009	3611	3955
80°	2791	2988	3750
85°	1588	2713	3469



TEST NUMBER: P829965

CATALOG NUMBER: OHBL-18SE-MCL-UNV-L840-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	597.6	3.3
10°-20°	1713.8	9.6
20°-30°	2617.5	14.6
30°-40°	3175.9	17.7
40°-50°	3328.6	18.6
50°-60°	3016.2	16.8
60°-70°	2022.3	11.3
70°-80°	908.1	5.1
80°-90°	329.5	1.8
90°-100°	99.2	0.6
100°-110°	46.8	0.3
110°-120°	23.5	0.1
120°-130°	12.9	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°	4928.9	27.5
0°-40°	8104.8	45.2
0°-60°	14449.6	80.7
0°-90°	17709.5	98.9
90°-120°	169.4	0.9
90°-150°	197.3	1.1
90°-180°	205.0	1.1
0°-180°	17915.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6338	6338	6338	6338	6338	
5°	6297	6319	6275	6294	6286	599
15°	6093	6069	6026	6079	6086	1720
25°	5660	5635	5675	5727	5711	2609
35°	5017	5029	5080	5134	5114	3136
45°	4164	4231	4310	4420	4434	3207
55°	3064	3211	3430	3568	3560	2735
65°	1798	2080	2361	1992	1627	1792
75°	708	1026	755	773	823	773
85°	122	234	300	362	379	149
90°	1	78	155	194	204	7
95°	1	49	106	129	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	



TEST NUMBER: P829965

CATALOG NUMBER: OHBL-18SE-MCL-UNV-L840-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6338.3	6338.3	6338.3	6338.3	6338.3
2.5°	6312.7	6339.3	6306.3	6342.0	6351.2
5°	6297.1	6319.1	6275.1	6294.4	6286.1
7.5°	6268.7	6276.0	6223.8	6239.4	6222.9
10°	6226.5	6222.9	6161.5	6191.7	6195.4
12.5°	6164.2	6153.2	6098.2	6144.0	6145.0
15°	6092.7	6068.9	6025.8	6079.0	6086.3
17.5°	6010.2	5979.1	5950.7	6019.4	6008.4
20°	5914.0	5877.4	5871.9	5947.0	5919.5
22.5°	5794.9	5766.5	5779.3	5850.8	5833.4
25°	5660.2	5635.4	5674.8	5727.1	5710.6
27.5°	5518.1	5503.4	5548.3	5588.7	5556.6
30°	5362.3	5354.0	5413.6	5446.6	5406.3
32.5°	5192.7	5195.5	5252.3	5297.2	5259.7
35°	5016.8	5028.7	5080.0	5134.1	5113.9
37.5°	4823.4	4850.0	4901.3	4962.7	4941.6
40°	4619.0	4657.5	4714.3	4788.6	4769.3
42.5°	4398.2	4446.7	4520.1	4602.5	4600.7
45°	4163.5	4231.4	4310.2	4420.2	4433.9
47.5°	3919.8	3995.8	4095.7	4242.4	4263.4
50°	3654.9	3750.2	3874.9	4050.8	4063.7
52.5°	3359.8	3489.9	3654.9	3823.5	3808.0
55°	3063.8	3211.3	3430.4	3567.8	3559.6
57.5°	2768.7	2934.6	3200.3	3298.4	3297.5
60°	2438.7	2648.6	2939.1	3013.4	2940.1
62.5°	2133.6	2359.0	2660.5	2606.5	2355.3
65°	1798.1	2079.5	2360.8	1992.4	1626.7
67.5°	1500.3	1793.5	2005.2	1364.6	1168.5
70°	1200.6	1524.1	1563.5	1012.7	999.0
72.5°	934.8	1279.4	1078.7	867.0	911.0
75°	707.5	1026.5	755.2	772.6	823.0
77.5°	516.0	788.2	587.5	677.3	718.5
80°	354.7	558.1	479.3	569.1	597.5
82.5°	222.7	368.4	384.0	458.2	487.6
85°	121.9	233.7	299.7	362.0	379.4
87.5°	50.4	141.1	229.1	279.5	294.2
90°	0.9	77.9	154.9	194.3	203.5
92.5°	0.9	59.6	126.5	156.7	163.1
95°	0.9	48.6	106.3	129.2	132.9
97.5°	1.8	38.5	88.9	107.2	110.9
100°	2.7	32.1	74.2	89.8	92.6
102.5°	3.7	25.7	62.3	75.2	77.9
105°	3.7	21.1	52.2	63.2	66.0



TEST NUMBER: P829965

CATALOG NUMBER: OHBL-18SE-MCL-UNV-L840-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6.4	12.8	31.2	39.4	41.2
115°	7.3	11.0	26.6	33.9	35.7
117.5°	7.3	9.2	22.9	28.4	30.2
120°	7.3	8.2	20.2	24.7	25.7
122.5°	7.3	7.3	17.4	22.0	22.9
125°	6.4	7.3	16.5	19.2	20.2
127.5°	7.3	7.3	14.7	17.4	18.3
130°	7.3	8.2	12.8	16.5	16.5
132.5°	8.2	9.2	11.9	15.6	15.6
135°	8.2	9.2	10.1	14.7	15.6
137.5°	9.2	9.2	9.2	13.7	14.7
140°	9.2	9.2	8.2	11.9	12.8
142.5°	8.2	9.2	8.2	11.0	11.9
145°	8.2	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	8.2	8.2
177.5°	11.0	10.1	9.2	8.2	7.3
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	17.4	44.9	54.1	55.9
110°	5.5	14.7	37.6	45.8	47.7



(END OF REPORT)