

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: P830001

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

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P830001
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-18SE-NL-UNV-L840-CD
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

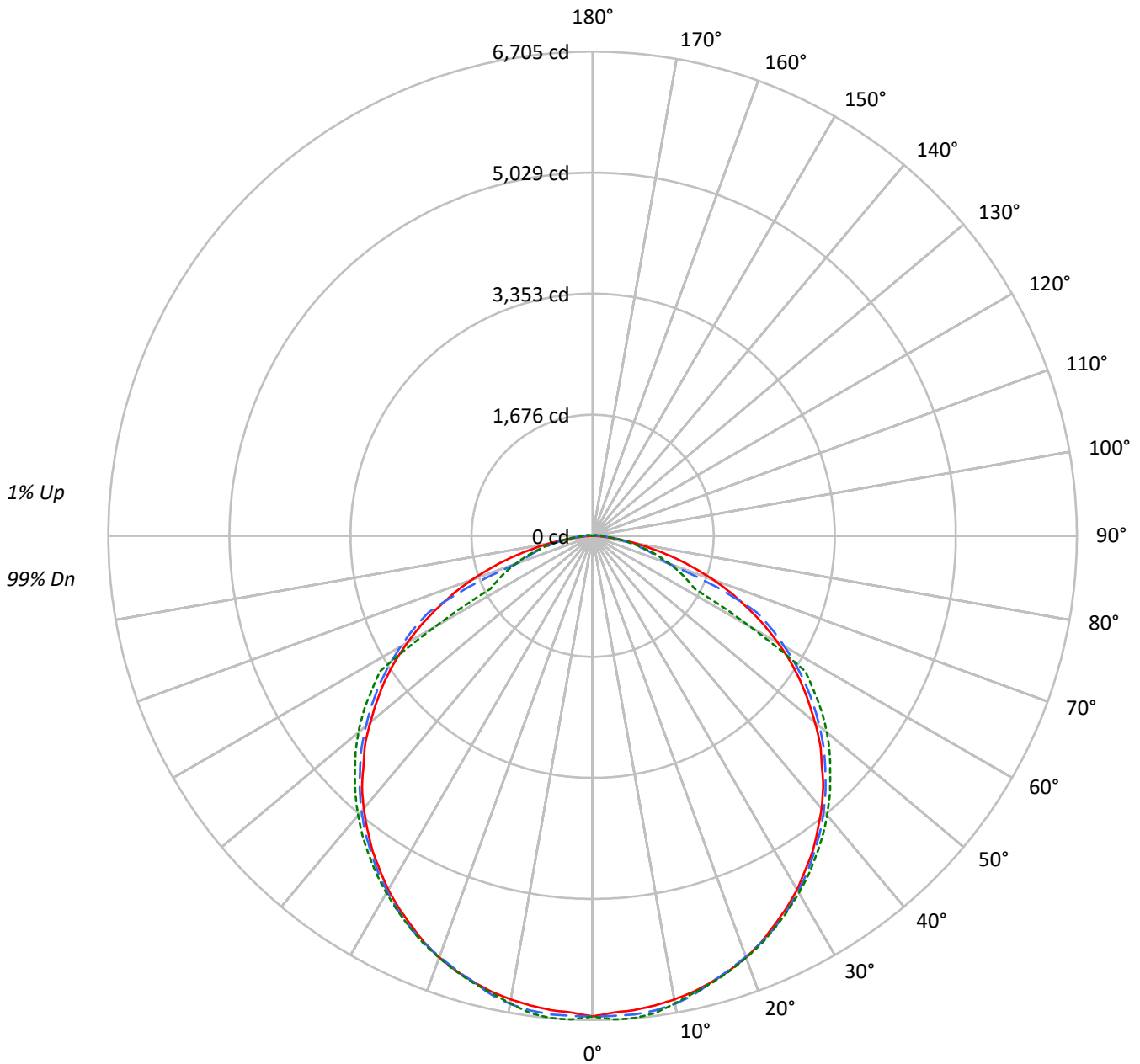
Lumens per Lamp: N/A
Luminaire Lumens: 18687.0 lumens
Efficiency: N/A
Efficacy: 178.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.67' x L: 3.78' x H: 0')
CIE Type: Direct

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	111	111	111	106	106	106	102	102	102				99																
1	109	105	100	97	106	102	99	95	98	95	92	94	91	89	90	88	86				84																
2	99	92	85	79	97	90	84	78	86	81	76	83	78	75	80	76	73				71																
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62				60																
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53				51																
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46				44																
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41				39																
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36				34																
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32				30																
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29				27																
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26				25																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11368	11368	11368
5°	11305	11408	11494
10°	11308	11416	11402
15°	11306	11305	11329
20°	11291	11274	11302
25°	11214	11271	11280
30°	11162	11220	11263
35°	11090	11151	11255
40°	10994	11098	11262
45°	10835	10999	11239
50°	10672	10890	11249
55°	10468	10739	11125
60°	10117	10476	8661
65°	9572	10129	5829
70°	8854	5377	5658
75°	7722	5110	5403
80°	5939	4687	4951
85°	2998	4737	4850



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	632.3	3.4
10°-20°	1810.5	9.7
20°-30°	2754.9	14.7
30°-40°	3349.5	17.9
40°-50°	3521.9	18.8
50°-60°	3215.9	17.2
60°-70°	2061.5	11.0
70°-80°	973.8	5.2
80°-90°	270.0	1.4
90°-100°	71.5	0.4
100°-110°	19.6	0.1
110°-120°	5.4	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5197.7	27.8
0°-40°	8547.3	45.7
0°-60°	15285.1	81.8
0°-90°	18590.5	99.5
90°-120°	96.5	0.5
90°-150°	96.5	0.5
90°-180°	97.0	0.5
0°-180°	18687.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6656	6656	6656	6656	6656	
5°	6594	6620	6654	6690	6704	627
15°	6394	6442	6393	6402	6407	1805
25°	5950	5960	5981	5990	5985	2746
35°	5319	5287	5348	5413	5398	3324
45°	4486	4478	4554	4661	4653	3467
55°	3515	3488	3606	3727	3736	3135
65°	2368	2368	2506	1438	1442	2348
75°	1170	1192	774	815	819	1234
85°	153	194	242	262	248	226
90°	0	65	107	127	125	7
95°	4	34	77	104	104	2
105°	6	13	19	19	18	6
115°	6	8	12	8	1	4
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6655.8	6655.8	6655.8	6655.8	6655.8
2.5°	6609.1	6631.3	6655.8	6687.4	6704.8
5°	6593.9	6619.6	6653.5	6689.7	6703.7
7.5°	6561.2	6597.3	6630.1	6655.8	6664.0
10°	6520.3	6563.6	6582.3	6579.9	6574.1
12.5°	6465.4	6511.0	6505.2	6478.3	6483.0
15°	6394.2	6442.0	6393.1	6402.4	6407.0
17.5°	6310.1	6356.8	6299.6	6318.3	6319.5
20°	6212.1	6247.0	6202.7	6217.9	6217.9
22.5°	6094.1	6118.6	6099.9	6110.4	6112.8
25°	5950.4	5959.7	5980.7	5990.1	5985.4
27.5°	5812.7	5800.9	5841.9	5864.0	5852.2
30°	5659.6	5640.9	5688.8	5725.0	5711.0
32.5°	5484.4	5472.8	5527.7	5570.8	5562.7
35°	5318.6	5287.0	5347.8	5413.2	5398.0
37.5°	5122.4	5103.7	5172.6	5241.5	5233.4
40°	4930.8	4899.3	4977.6	5059.3	5051.1
42.5°	4725.3	4687.9	4773.2	4871.3	4861.9
45°	4485.8	4477.7	4553.6	4661.0	4652.9
47.5°	4273.4	4232.5	4338.7	4442.7	4452.1
50°	4016.3	4001.2	4098.2	4224.3	4233.6
52.5°	3765.3	3754.8	3856.3	3983.7	4000.0
55°	3515.3	3488.5	3606.4	3726.7	3736.1
57.5°	3248.0	3219.9	3340.2	3471.0	3490.8
60°	2961.7	2934.9	3066.8	3188.4	2535.5
62.5°	2675.6	2656.9	2794.8	1979.6	1595.4
65°	2368.5	2368.5	2506.2	1437.7	1442.3
67.5°	2081.2	2062.6	1868.7	1291.6	1291.6
70°	1772.9	1779.9	1076.7	1131.7	1132.9
72.5°	1463.4	1489.1	929.7	974.0	976.3
75°	1170.2	1192.5	774.3	815.2	818.7
77.5°	859.6	661.0	622.4	654.1	655.2
80°	603.8	416.9	476.5	506.8	503.4
82.5°	352.6	291.9	349.2	371.4	370.2
85°	153.0	193.9	241.7	261.6	247.5
87.5°	49.0	120.3	150.6	162.3	161.1
90°	0.0	65.4	107.4	127.2	125.0
92.5°	0.0	51.3	93.5	116.8	118.0
95°	3.5	33.9	77.2	104.0	104.0
97.5°	2.3	24.5	54.9	81.7	84.1
100°	2.3	19.8	36.2	58.4	59.6
102.5°	5.8	16.3	22.1	37.3	38.6
105°	5.8	12.9	18.7	18.7	17.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	7.0	9.4	12.9	9.4	1.1
115°	5.8	8.2	11.6	8.2	1.1
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
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°	5.8	11.6	16.3	10.5	3.5
110°	7.0	10.5	14.0	9.4	1.1



(END OF REPORT)