

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: P829773

Luminaire Tested: **OHBL-12SE-N-UNV-L840-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829773
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-12SE-N-UNV-L840-CD
Description: 12000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

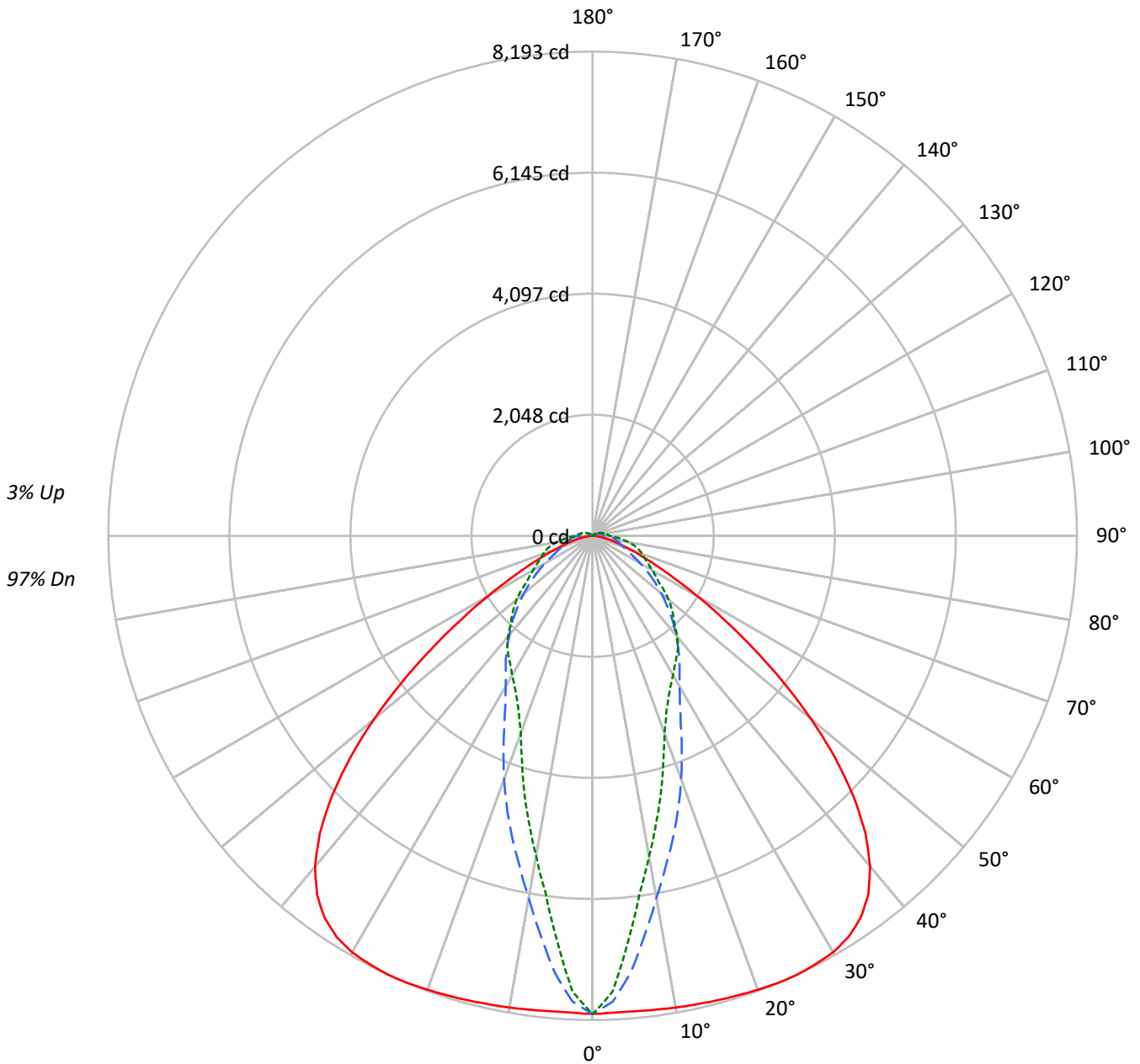
Lumens per Lamp: N/A
Luminaire Lumens: 11945.0 lumens
Efficiency: N/A
Efficacy: 170.6 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 0.88' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 70
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: P829773

CATALOG NUMBER: OHBL-12SE-N-UNV-L840-CD

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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	97																	
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	85	85	85	82																	
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	71																	
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	62																	
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	54																	
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	48																	
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	43																	
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	39																	
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	35																	
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	32																	
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	30																	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26330	26330	26330
5°	26277	23846	22120
10°	26573	19976	17601
15°	27092	16990	14334
20°	27853	14285	11502
25°	28816	11755	9995
30°	29813	10064	9205
35°	30433	9111	8688
40°	29912	8170	8159
45°	27518	7323	7469
50°	23217	6409	6920
55°	17641	5553	6065
60°	12363	4699	5701
65°	8316	3980	5456
70°	5679	3654	5555
75°	3941	3653	5693
80°	2713	3859	5500
85°	1586	4438	5166



TEST NUMBER: P829773

CATALOG NUMBER: OHBL-12SE-N-UNV-L840-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	681.3	5.7
10°-20°	1602.7	13.4
20°-30°	2009.0	16.8
30°-40°	2131.7	17.8
40°-50°	1927.4	16.1
50°-60°	1397.5	11.7
60°-70°	877.0	7.3
70°-80°	580.4	4.9
80°-90°	334.4	2.8
90°-100°	162.0	1.4
100°-110°	111.8	0.9
110°-120°	69.0	0.6
120°-130°	33.4	0.3
130°-140°	15.4	0.1
140°-150°	8.4	0.1
150°-160°	3.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4293.0	35.9
0°-40°	6424.7	53.8
0°-60°	9749.6	81.6
0°-90°	11541.4	96.6
90°-120°	342.8	2.9
90°-150°	400.0	3.3
90°-180°	404.0	3.4
0°-180°	11945.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8093	8093	8093	8093	8093	
5°	8077	7870	7408	7064	6886	772
15°	8139	6634	5269	4686	4473	2308
25°	8193	5129	3528	3131	3032	3785
35°	7899	3410	2560	2480	2480	4911
45°	6245	2160	1856	1900	1933	4757
55°	3306	1339	1211	1313	1360	2987
65°	1182	776	701	898	998	1230
75°	365	418	471	731	775	407
85°	64	173	344	479	440	77
90°	0	72	200	281	284	4
95°	3	51	176	239	250	3
105°	6	34	128	170	174	6
115°	8	24	86	108	110	8
125°	9	12	44	56	55	8
135°	8	9	19	30	30	6
145°	9	10	12	18	17	6
155°	9	12	12	13	12	3
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P829773

CATALOG NUMBER: OHBL-12SE-N-UNV-L840-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8093.4	8093.4	8093.4	8093.4	8093.4
2.5°	8076.4	8030.2	7886.2	7798.4	7724.4
5°	8077.2	7870.0	7407.8	7064.3	6886.3
7.5°	8088.8	7628.1	6795.4	6294.0	6098.3
10°	8106.5	7328.5	6223.9	5689.3	5506.8
12.5°	8119.6	6991.1	5720.9	5171.7	4971.4
15°	8138.8	6633.7	5268.7	4685.6	4473.0
17.5°	8156.5	6297.1	4822.0	4212.7	3976.2
20°	8174.3	5934.3	4375.2	3747.4	3552.6
22.5°	8191.2	5551.4	3939.2	3386.2	3252.9
25°	8192.7	5129.3	3527.9	3131.2	3031.8
27.5°	8172.7	4691.8	3194.4	2917.8	2856.2
30°	8138.1	4267.4	2935.6	2763.8	2719.9
32.5°	8051.8	3834.5	2735.3	2615.1	2589.7
35°	7899.3	3410.0	2560.4	2480.3	2479.5
37.5°	7658.9	3033.4	2370.9	2357.1	2374.0
40°	7303.8	2703.7	2191.5	2228.4	2228.4
42.5°	6830.1	2417.2	2028.9	2066.7	2056.7
45°	6244.7	2159.9	1855.6	1900.3	1932.6
47.5°	5566.1	1933.4	1678.4	1764.7	1809.4
50°	4828.1	1717.7	1516.7	1626.8	1677.7
52.5°	4054.8	1518.2	1358.8	1485.1	1525.9
55°	3306.1	1338.8	1210.9	1313.3	1360.3
57.5°	2628.2	1167.8	1066.1	1163.1	1260.2
60°	2045.1	1020.6	929.7	1068.4	1165.4
62.5°	1562.1	889.7	801.9	979.8	1076.9
65°	1182.4	776.4	701.0	898.2	998.3
67.5°	891.2	678.6	622.4	838.8	936.7
70°	669.4	583.9	559.2	801.9	889.7
72.5°	494.5	496.8	509.2	769.5	836.5
75°	365.1	418.3	470.6	731.0	774.9
77.5°	261.1	346.6	436.0	684.8	700.2
80°	181.0	282.7	399.8	623.9	610.8
82.5°	113.2	226.5	367.4	556.9	520.7
85°	63.9	173.3	344.3	479.1	439.8
87.5°	28.5	129.4	301.2	373.6	348.9
90°	0.0	72.4	199.5	281.2	283.5
92.5°	1.5	60.1	184.1	257.3	265.0
95°	3.1	50.8	175.6	238.8	249.6
97.5°	3.9	44.7	164.8	221.8	231.1
100°	4.6	40.1	151.7	204.1	211.8
102.5°	5.4	37.0	139.4	185.6	191.8
105°	6.2	33.9	127.9	169.5	174.1



TEST NUMBER: P829773

CATALOG NUMBER: OHBL-12SE-N-UNV-L840-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	7.7	26.2	96.3	121.7	125.6
115°	8.5	23.9	86.3	107.8	110.2
117.5°	9.2	20.8	75.5	94.7	95.5
120°	9.2	18.5	64.7	80.9	80.9
122.5°	9.2	15.4	53.9	67.0	66.2
125°	9.2	12.3	43.9	55.5	54.7
127.5°	8.5	10.0	35.4	46.2	45.4
130°	8.5	10.0	28.5	39.3	39.3
132.5°	7.7	9.2	23.1	33.9	33.9
135°	7.7	9.2	19.3	30.0	30.0
137.5°	7.7	10.0	16.2	26.2	26.2
140°	7.7	9.2	13.9	23.1	23.1
142.5°	8.5	9.2	12.3	20.0	20.0
145°	9.2	10.0	11.6	17.7	16.9
147.5°	9.2	10.8	11.6	15.4	14.6
150°	9.2	11.6	11.6	13.9	13.1
152.5°	9.2	11.6	11.6	13.1	12.3
155°	9.2	11.6	12.3	13.1	11.6
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°	6.2	31.6	117.1	151.7	157.1
110°	6.9	28.5	107.1	135.6	141.0



(END OF REPORT)