

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: P829756

Luminaire Tested: **OHBL-12SE-MFL-UNV-L735-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829756
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-12SE-MFL-UNV-L735-CD
Description: 12000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

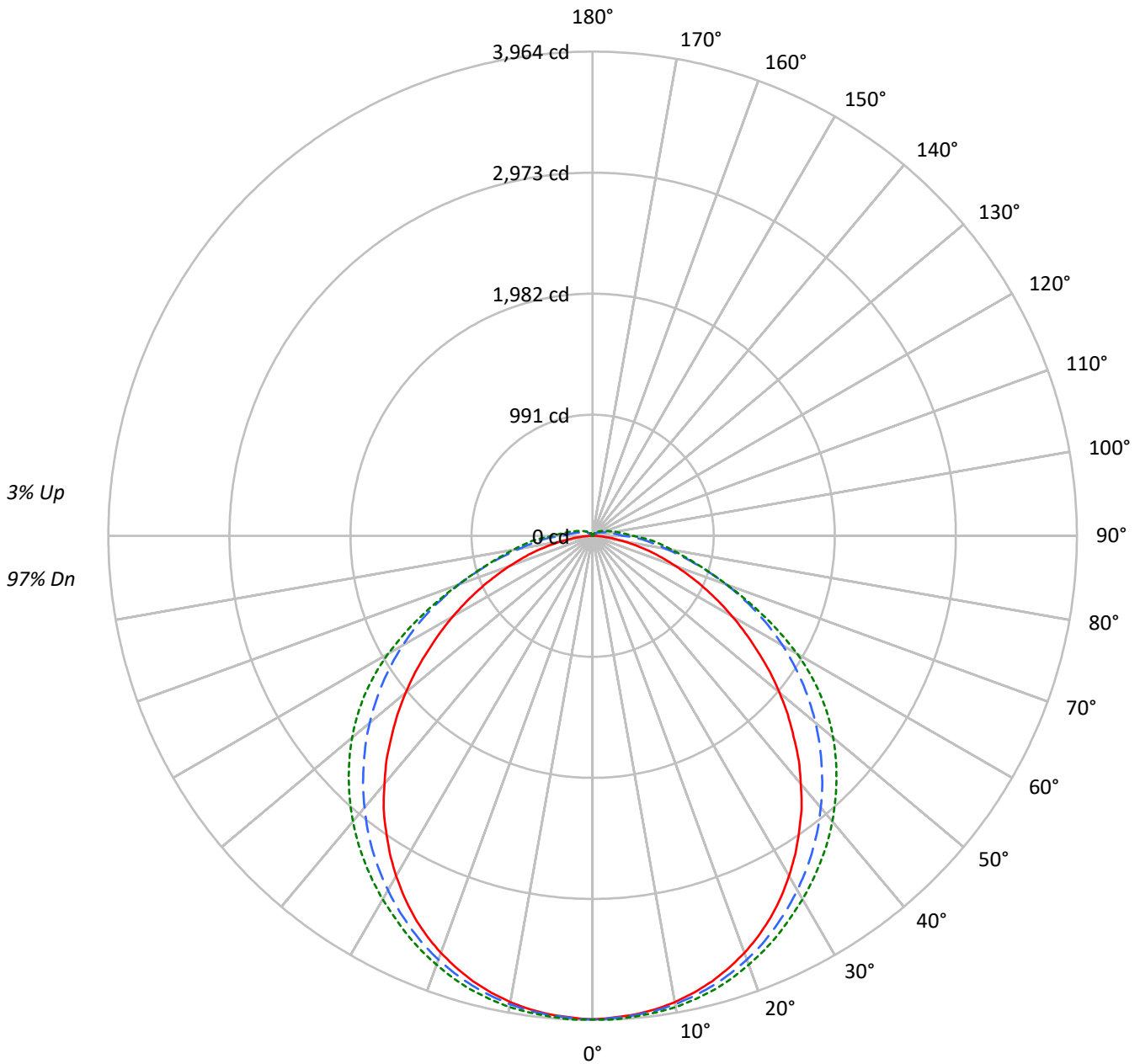
Lumens per Lamp: N/A
Luminaire Lumens: 11852.0 lumens
Efficiency: N/A
Efficacy: 169.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.88' x L: 3.78' x H: 0.17')
CIE Type: Direct

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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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°	12883	12883	12883
5°	12801	12685	12693
10°	12711	12499	12521
15°	12569	12292	12330
20°	12381	12056	12100
25°	12129	11780	11867
30°	11781	11486	11631
35°	11359	11177	11408
40°	10852	10829	11179
45°	10254	10453	10911
50°	9600	10067	10602
55°	8797	9609	10168
60°	7974	9077	9459
65°	7075	8420	8411
70°	6101	7606	7286
75°	5115	6667	6408
80°	3879	5857	5926
85°	2455	5546	5852



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.2	3.2
10°-20°	1076.5	9.1
20°-30°	1628.1	13.7
30°-40°	1954.5	16.5
40°-50°	2018.7	17.0
50°-60°	1816.2	15.3
60°-70°	1368.1	11.5
70°-80°	826.1	7.0
80°-90°	404.0	3.4
90°-100°	170.1	1.4
100°-110°	97.1	0.8
110°-120°	57.0	0.5
120°-130°	32.2	0.3
130°-140°	17.0	0.1
140°-150°	8.3	0.1
150°-160°	3.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3079.8	26.0
0°-40°	5034.3	42.5
0°-60°	8869.1	74.8
0°-90°	11467.4	96.8
90°-120°	324.1	2.7
90°-150°	381.6	3.2
90°-180°	385.0	3.2
0°-180°	11852.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3960	3960	3960	3960	3960	
5°	3935	3946	3941	3956	3951	374
15°	3776	3794	3812	3844	3848	1065
25°	3448	3486	3536	3591	3600	1586
35°	2948	3017	3141	3236	3256	1843
45°	2327	2444	2649	2793	2823	1797
55°	1649	1819	2095	2253	2280	1478
65°	1006	1212	1483	1556	1539	999
75°	474	680	859	881	872	506
85°	99	261	430	489	498	114
90°	0	102	246	310	323	6
95°	5	69	184	234	243	4
105°	7	40	107	140	145	7
115°	8	22	66	88	92	8
125°	8	11	40	57	60	7
135°	7	9	20	35	39	5
145°	10	9	10	17	20	6
155°	10	11	10	9	10	3
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3960.1	3960.1	3960.1	<i>3960.1</i>	3960.1
2.5°	<i>3948.5</i>	<i>3958.2</i>	<i>3952.4</i>	<i>3965.0</i>	<i>3964.0</i>
5°	3934.9	3945.6	3940.7	<i>3956.3</i>	3951.4
7.5°	3911.7	3923.3	3922.3	<i>3939.8</i>	3937.8
10°	3877.7	3890.3	3894.2	<i>3917.5</i>	3917.5
12.5°	3831.2	3847.7	3857.4	<i>3885.5</i>	3886.5
15°	3776.0	3794.4	3811.8	<i>3843.8</i>	3847.7
17.5°	3709.1	3732.4	3756.6	<i>3793.4</i>	3798.3
20°	3633.5	3659.7	3692.6	<i>3731.4</i>	3737.2
22.5°	3546.3	3577.3	3619.9	<i>3665.5</i>	3672.3
25°	3448.4	3486.2	3535.6	<i>3590.9</i>	3599.6
27.5°	3336.9	3380.6	3447.4	<i>3509.5</i>	3517.2
30°	3215.8	3267.2	3350.5	<i>3424.2</i>	3436.8
32.5°	3087.9	3147.0	3249.7	<i>3332.1</i>	3349.5
35°	2948.3	3017.1	3141.2	<i>3236.1</i>	3255.5
37.5°	2810.7	2886.3	3026.8	<i>3135.3</i>	3158.6
40°	2649.8	2743.8	2904.7	<i>3024.9</i>	3053.0
42.5°	2498.6	2600.3	2782.6	<i>2913.4</i>	2940.5
45°	2327.0	2444.3	2648.8	<i>2793.2</i>	2823.3
47.5°	2166.2	2293.1	2519.9	<i>2669.2</i>	2700.2
50°	1996.5	2136.1	2382.3	<i>2538.3</i>	2570.3
52.5°	1826.9	1977.2	2239.8	<i>2401.7</i>	2431.7
55°	1648.6	1819.2	2095.4	<i>2253.4</i>	2280.5
57.5°	1482.9	1663.1	1947.1	<i>2097.3</i>	2113.8
60°	1319.1	1506.1	1795.9	<i>1927.7</i>	1933.5
62.5°	1159.2	1355.9	1640.8	<i>1745.5</i>	1737.8
65°	1006.0	1211.5	1482.9	<i>1556.5</i>	1539.1
67.5°	858.7	1071.0	1321.0	<i>1368.5</i>	1345.2
70°	719.1	934.3	1164.0	<i>1188.2</i>	1166.9
72.5°	596.1	804.4	1005.1	<i>1025.4</i>	1009.9
75°	473.9	680.4	858.7	<i>881.0</i>	872.3
77.5°	359.6	560.2	724.0	<i>753.1</i>	755.0
80°	258.8	450.7	606.7	<i>652.3</i>	658.1
82.5°	170.6	349.9	508.8	<i>567.0</i>	575.7
85°	98.9	260.7	430.3	<i>489.4</i>	498.2
87.5°	42.6	188.0	346.0	<i>399.3</i>	410.0
90°	0.0	101.8	246.2	<i>310.1</i>	322.7
92.5°	2.9	84.3	211.3	<i>269.4</i>	280.1
95°	4.8	68.8	184.1	<i>234.5</i>	243.3
97.5°	5.8	58.2	159.9	<i>204.5</i>	213.2
100°	5.8	50.4	138.6	<i>179.3</i>	187.1
102.5°	5.8	44.6	121.1	<i>157.0</i>	163.8
105°	6.8	39.7	106.6	<i>139.6</i>	145.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	7.8	26.2	73.7	98.9	102.7
115°	7.8	22.3	65.9	88.2	92.1
117.5°	8.7	19.4	58.2	79.5	82.4
120°	8.7	16.5	51.4	70.8	74.6
122.5°	8.7	13.6	45.6	64.0	66.9
125°	7.8	10.7	39.7	57.2	60.1
127.5°	6.8	8.7	33.9	51.4	54.3
130°	6.8	7.8	29.1	45.6	48.5
132.5°	6.8	8.7	24.2	39.7	43.6
135°	6.8	8.7	20.4	34.9	38.8
137.5°	6.8	8.7	16.5	30.0	33.9
140°	7.8	8.7	13.6	25.2	29.1
142.5°	8.7	8.7	10.7	21.3	24.2
145°	9.7	8.7	9.7	17.4	20.4
147.5°	9.7	9.7	9.7	13.6	16.5
150°	9.7	10.7	9.7	10.7	13.6
152.5°	9.7	10.7	9.7	8.7	10.7
155°	9.7	10.7	9.7	8.7	9.7
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°	6.8	34.9	94.0	124.1	128.9
110°	6.8	31.0	83.4	110.5	115.3



(END OF REPORT)