

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: P829758

Luminaire Tested: **OHBL-12SE-MFL-UNV-L750-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P829758  
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-L750-CD  
Description: 12000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 5000K LEDS AND MEDIUM FROSTED LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

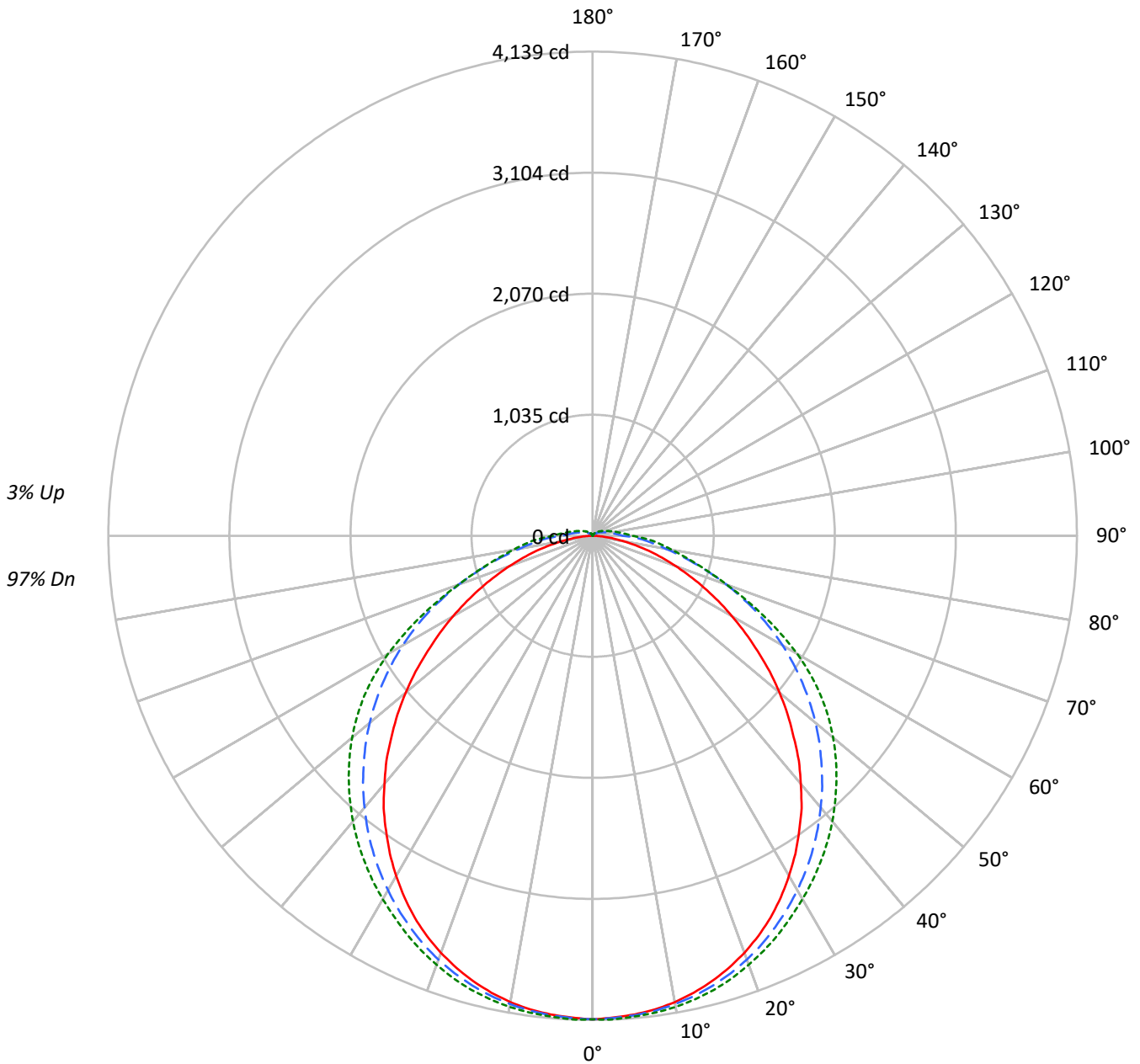
Lumens per Lamp: N/A  
Luminaire Lumens: 12374.0 lumens  
Efficiency: N/A  
Efficacy: 176.8 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 0.88' x L: 3.78' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 70  
Input Voltage (V): NR  
Input Current (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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	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	80																	
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	68	68	66																	
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	58	58	56																	
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	50	50	47																	
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	43	43	41																	
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	38	38	36																	
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	34	34	32																	
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	30	30	28																	
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	27	27	25																	
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	25	25	23																	

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	13451	13451	13451
5°	13365	13244	13252
10°	13271	13049	13072
15°	13123	12834	12873
20°	12926	12587	12633
25°	12663	12299	12390
30°	12299	11992	12143
35°	11859	11669	11910
40°	11330	11305	11671
45°	10706	10913	11391
50°	10024	10510	11069
55°	9184	10032	10616
60°	8325	9477	9876
65°	7387	8791	8782
70°	6370	7941	7607
75°	5341	6960	6690
80°	4050	6114	6188
85°	2561	5791	6110



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	391.8	3.2
10°-20°	1123.9	9.1
20°-30°	1699.7	13.7
30°-40°	2040.6	16.5
40°-50°	2107.6	17.0
50°-60°	1896.2	15.3
60°-70°	1428.4	11.5
70°-80°	862.5	7.0
80°-90°	421.8	3.4
90°-100°	177.6	1.4
100°-110°	101.4	0.8
110°-120°	59.5	0.5
120°-130°	33.7	0.3
130°-140°	17.7	0.1
140°-150°	8.6	0.1
150°-160°	3.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3215.5	26.0
0°-40°	5256.0	42.5
0°-60°	9259.8	74.8
0°-90°	11972.4	96.8
90°-120°	338.4	2.7
90°-150°	398.4	3.2
90°-180°	402.0	3.2
0°-180°	12374.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4134	4134	4134	4134	4134	
5°	4108	4119	4114	4130	4125	390
15°	3942	3962	3980	4013	4017	1111
25°	3600	3640	3691	3749	3758	1656
35°	3078	3150	3280	3379	3399	1924
45°	2430	2552	2766	2916	2948	1876
55°	1721	1899	2188	2353	2381	1543
65°	1050	1265	1548	1625	1607	1043
75°	495	710	896	920	911	528
85°	103	272	449	511	520	119
90°	0	106	257	324	337	7
95°	5	72	192	245	254	4
105°	7	42	111	146	152	7
115°	8	23	69	92	96	8
125°	8	11	42	60	63	7
135°	7	9	21	36	40	6
145°	10	9	10	18	21	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	



TEST NUMBER: P829758

CATALOG NUMBER: OHBL-12SE-MFL-UNV-L750-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4134.5	4134.5	4134.5	4134.5	4134.5
2.5°	4122.4	4132.5	4126.5	4139.6	4138.6
5°	4108.2	4119.4	4114.3	4130.5	4125.4
7.5°	4084.0	4096.1	4095.1	4113.3	4111.3
10°	4048.5	4061.7	4065.7	4090.0	4090.0
12.5°	4000.0	4017.2	4027.3	4056.6	4057.6
15°	3942.3	3961.5	3979.7	4013.1	4017.2
17.5°	3872.5	3896.8	3922.1	3960.5	3965.6
20°	3793.5	3820.9	3855.3	3895.7	3901.8
22.5°	3702.5	3734.9	3779.4	3826.9	3834.0
25°	3600.3	3639.7	3691.3	3749.0	3758.1
27.5°	3483.9	3529.4	3599.3	3664.0	3672.1
30°	3357.4	3411.1	3498.1	3575.0	3588.1
32.5°	3223.9	3285.6	3392.8	3478.8	3497.1
35°	3078.1	3150.0	3279.5	3378.7	3398.9
37.5°	2934.5	3013.4	3160.1	3273.4	3297.7
40°	2766.5	2864.6	3032.6	3158.1	3187.4
42.5°	2608.6	2714.9	2905.1	3041.7	3070.0
45°	2429.5	2552.0	2765.5	2916.2	2947.6
47.5°	2261.6	2394.1	2630.9	2786.7	2819.1
50°	2084.5	2230.2	2487.2	2650.1	2683.5
52.5°	1907.4	2064.2	2338.5	2507.4	2538.8
55°	1721.2	1899.3	2187.7	2352.6	2381.0
57.5°	1548.2	1736.4	2032.9	2189.7	2206.9
60°	1377.2	1572.5	1875.0	2012.6	2018.7
62.5°	1210.2	1415.6	1713.1	1822.4	1814.3
65°	1050.3	1264.9	1548.2	1625.1	1606.9
67.5°	896.5	1118.1	1379.2	1428.8	1404.5
70°	750.8	975.5	1215.3	1240.6	1218.3
72.5°	622.3	839.9	1049.3	1070.6	1054.4
75°	494.8	710.3	896.5	919.8	910.7
77.5°	375.4	584.9	755.9	786.2	788.3
80°	270.2	470.5	633.4	681.0	687.1
82.5°	178.1	365.3	531.2	592.0	601.1
85°	103.2	272.2	449.3	511.0	520.1
87.5°	44.5	196.3	361.2	416.9	428.0
90°	0.0	106.2	257.0	323.8	337.0
92.5°	3.0	88.0	220.6	281.3	292.4
95°	5.1	71.8	192.3	244.9	254.0
97.5°	6.1	60.7	167.0	213.5	222.6
100°	6.1	52.6	144.7	187.2	195.3
102.5°	6.1	46.5	126.5	163.9	171.0
105°	7.1	41.5	111.3	145.7	151.8



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CATALOG NUMBER: OHBL-12SE-MFL-UNV-L750-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	8.1	27.3	76.9	103.2	107.3
115°	8.1	23.3	68.8	92.1	96.1
117.5°	9.1	20.2	60.7	83.0	86.0
120°	9.1	17.2	53.6	73.9	77.9
122.5°	9.1	14.2	47.6	66.8	69.8
125°	8.1	11.1	41.5	59.7	62.7
127.5°	7.1	9.1	35.4	53.6	56.7
130°	7.1	8.1	30.4	47.6	50.6
132.5°	7.1	9.1	25.3	41.5	45.5
135°	7.1	9.1	21.2	36.4	40.5
137.5°	7.1	9.1	17.2	31.4	35.4
140°	8.1	9.1	14.2	26.3	30.4
142.5°	9.1	9.1	11.1	22.3	25.3
145°	10.1	9.1	10.1	18.2	21.2
147.5°	10.1	10.1	10.1	14.2	17.2
150°	10.1	11.1	10.1	11.1	14.2
152.5°	10.1	11.1	10.1	9.1	11.1
155°	10.1	11.1	10.1	9.1	10.1
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°	7.1	36.4	98.2	129.5	134.6
110°	7.1	32.4	87.0	115.4	120.4



(END OF REPORT)