

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: P829759

Luminaire Tested: **OHBL-12SE-MFL-UNV-L830-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829759
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-L830-CD
Description: 12000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

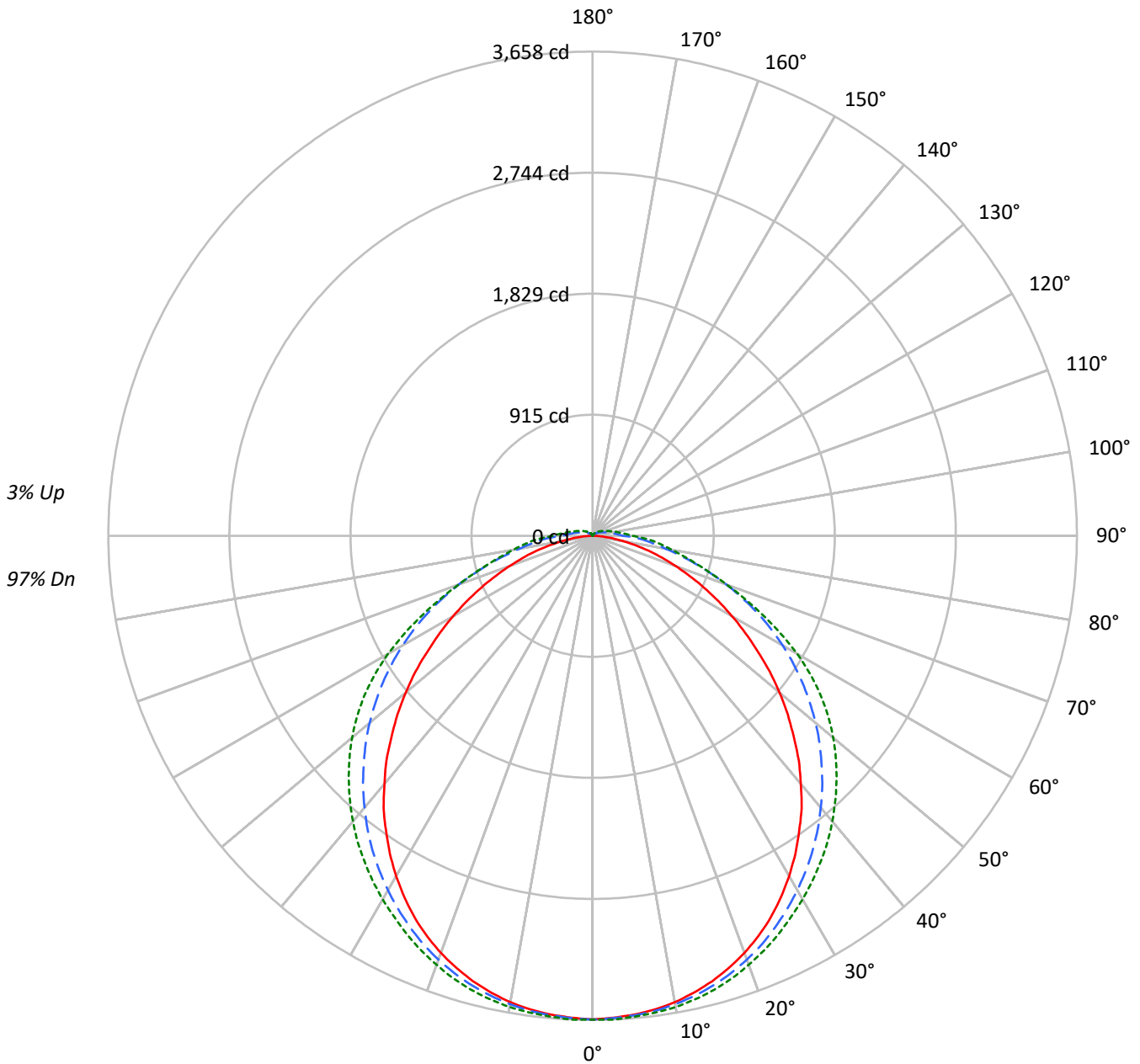
Lumens per Lamp: N/A
Luminaire Lumens: 10938.0 lumens
Efficiency: N/A
Efficacy: 156.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.88' x L: 3.78' x H: 0.17')
CIE Type: Direct

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									
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°	11890	11890	11890
5°	11814	11707	11714
10°	11731	11535	11555
15°	11600	11344	11379
20°	11426	11127	11167
25°	11194	10872	10952
30°	10872	10601	10734
35°	10483	10315	10528
40°	10015	9994	10316
45°	9464	9647	10069
50°	8860	9291	9784
55°	8119	8868	9384
60°	7359	8377	8730
65°	6530	7770	7763
70°	5631	7019	6724
75°	4721	6153	5914
80°	3579	5405	5469
85°	2264	5118	5400



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.3	3.2
10°-20°	993.5	9.1
20°-30°	1502.5	13.7
30°-40°	1803.8	16.5
40°-50°	1863.0	17.0
50°-60°	1676.1	15.3
60°-70°	1262.6	11.5
70°-80°	762.4	7.0
80°-90°	372.9	3.4
90°-100°	157.0	1.4
100°-110°	89.6	0.8
110°-120°	52.6	0.5
120°-130°	29.7	0.3
130°-140°	15.7	0.1
140°-150°	7.6	0.1
150°-160°	2.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2842.3	26.0
0°-40°	4646.1	42.5
0°-60°	8185.2	74.8
0°-90°	10583.0	96.8
90°-120°	299.2	2.7
90°-150°	352.2	3.2
90°-180°	355.0	3.2
0°-180°	10938.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3655	3655	3655	3655	3655	
5°	3632	3641	3637	3651	3647	345
15°	3485	3502	3518	3547	3551	982
25°	3182	3217	3263	3314	3322	1464
35°	2721	2784	2899	2987	3004	1701
45°	2148	2256	2444	2578	2606	1658
55°	1522	1679	1934	2080	2105	1364
65°	928	1118	1368	1436	1420	922
75°	437	628	792	813	805	467
85°	91	241	397	452	460	105
90°	0	94	227	286	298	6
95°	4	64	170	216	224	4
105°	6	37	98	129	134	6
115°	7	21	61	81	85	7
125°	7	10	37	53	56	6
135°	6	8	19	32	36	5
145°	9	8	9	16	19	5
155°	9	10	9	8	9	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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CATALOG NUMBER: OHBL-12SE-MFL-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3654.7	3654.7	3654.7	3654.7	3654.7
2.5°	3644.0	3652.9	3647.6	3659.2	3658.3
5°	3631.5	3641.3	3636.8	3651.2	3646.7
7.5°	3610.0	3620.7	3619.9	3636.0	3634.2
10°	3578.7	3590.3	3593.9	3615.4	3615.4
12.5°	3535.8	3551.0	3559.9	3585.9	3586.8
15°	3484.8	3501.8	3517.9	3547.4	3551.0
17.5°	3423.1	3444.5	3466.9	3500.9	3505.4
20°	3353.3	3377.5	3407.9	3443.6	3449.0
22.5°	3272.8	3301.4	3340.8	3382.8	3389.1
25°	3182.5	3217.3	3263.0	3313.9	3322.0
27.5°	3079.6	3119.9	3181.6	3238.8	3246.0
30°	2967.8	3015.2	3092.1	3160.1	3171.7
32.5°	2849.7	2904.3	2999.1	3075.1	3091.2
35°	2720.9	2784.4	2898.9	2986.6	3004.5
37.5°	2593.9	2663.7	2793.4	2893.6	2915.0
40°	2445.4	2532.2	2680.7	2791.6	2817.5
42.5°	2305.9	2399.8	2568.0	2688.7	2713.8
45°	2147.6	2255.8	2444.5	2577.8	2605.5
47.5°	1999.1	2116.3	2325.6	2463.3	2491.9
50°	1842.6	1971.4	2198.6	2342.6	2372.1
52.5°	1686.0	1824.7	2067.1	2216.5	2244.2
55°	1521.5	1678.9	1933.8	2079.6	2104.6
57.5°	1368.5	1534.9	1797.0	1935.6	1950.8
60°	1217.4	1390.0	1657.4	1779.1	1784.4
62.5°	1069.8	1251.3	1514.3	1610.9	1603.8
65°	928.4	1118.1	1368.5	1436.5	1420.4
67.5°	792.5	988.4	1219.1	1263.0	1241.5
70°	663.7	862.3	1074.2	1096.6	1076.9
72.5°	550.1	742.4	927.5	946.3	932.0
75°	437.4	627.9	792.5	813.1	805.0
77.5°	331.8	517.0	668.2	695.0	696.8
80°	238.8	415.9	559.9	602.0	607.3
82.5°	157.4	322.9	469.6	523.3	531.3
85°	91.2	240.6	397.1	451.7	459.7
87.5°	39.4	173.5	319.3	368.5	378.4
90°	0.0	93.9	227.2	286.2	297.9
92.5°	2.7	77.8	195.0	248.7	258.5
95°	4.5	63.5	169.9	216.5	224.5
97.5°	5.4	53.7	147.6	188.7	196.8
100°	5.4	46.5	127.9	165.5	172.6
102.5°	5.4	41.1	111.8	144.9	151.2
105°	6.3	36.7	98.4	128.8	134.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	7.2	24.2	68.0	91.2	94.8
115°	7.2	20.6	60.8	81.4	85.0
117.5°	8.1	17.9	53.7	73.3	76.0
120°	8.1	15.2	47.4	65.3	68.9
122.5°	8.1	12.5	42.0	59.0	61.7
125°	7.2	9.8	36.7	52.8	55.5
127.5°	6.3	8.1	31.3	47.4	50.1
130°	6.3	7.2	26.8	42.0	44.7
132.5°	6.3	8.1	22.4	36.7	40.3
135°	6.3	8.1	18.8	32.2	35.8
137.5°	6.3	8.1	15.2	27.7	31.3
140°	7.2	8.1	12.5	23.3	26.8
142.5°	8.1	8.1	9.8	19.7	22.4
145°	8.9	8.1	8.9	16.1	18.8
147.5°	8.9	8.9	8.9	12.5	15.2
150°	8.9	9.8	8.9	9.8	12.5
152.5°	8.9	9.8	8.9	8.1	9.8
155°	8.9	9.8	8.9	8.1	8.9
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°	6.3	32.2	86.8	114.5	119.0
110°	6.3	28.6	76.9	102.0	106.4



(END OF REPORT)