

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: P826459

Luminaire Tested: **OHBL-12SE-MFL-UNV-L830-CD-UPL12**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P826459
REPORT IS A COMBINATION OF REPORTS P826055 AND G3-2310-221-12
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-UPL12
Description:
Light Source: -
Ballast/Driver: -

Summary

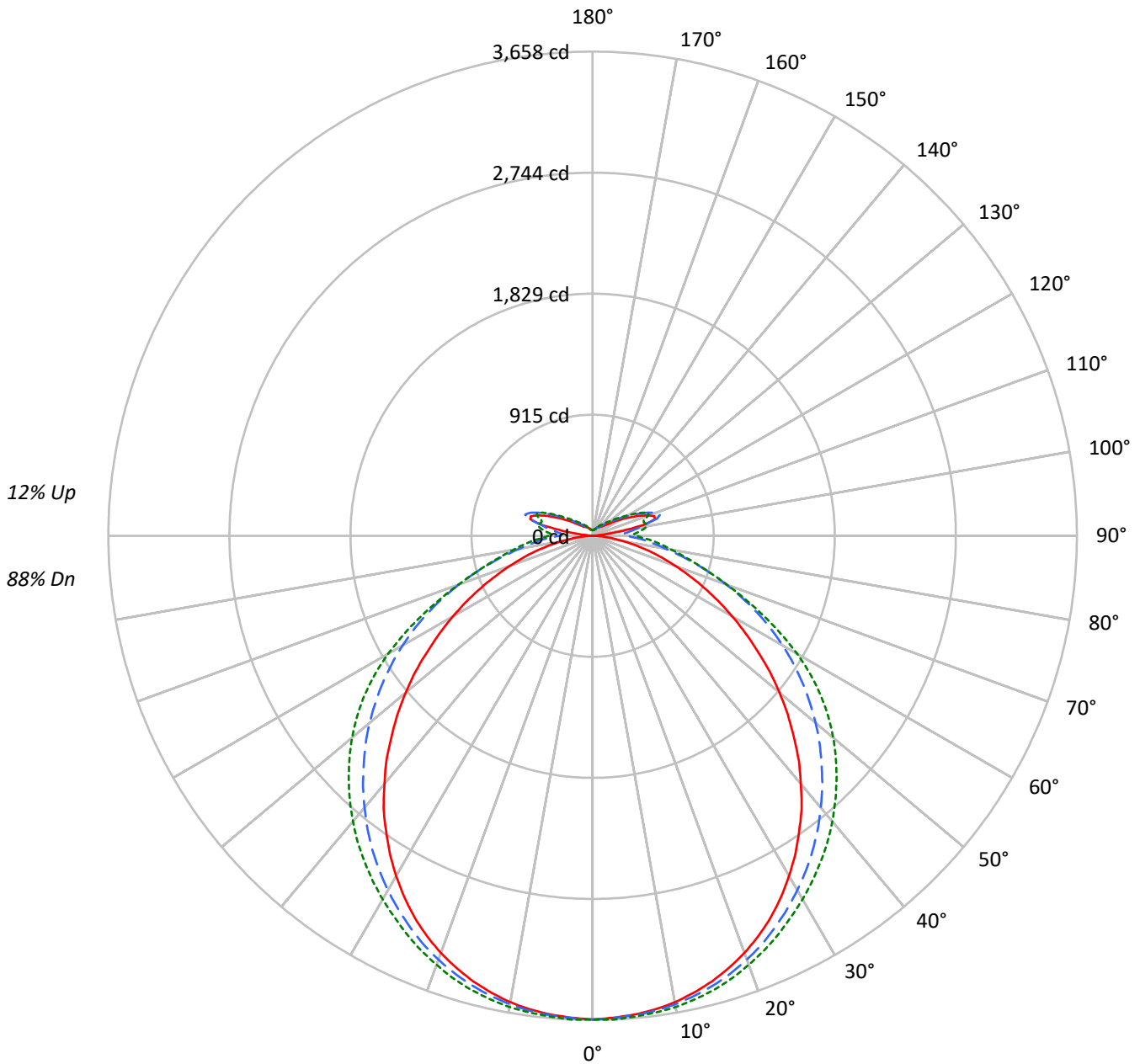
Lumens per Lamp: N/A
Luminaire Lumens: 12096.6 lumens
Efficiency: N/A
Efficacy: 154.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 78.4
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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	91	91	91	88			
1	105	100	96	92	101	97	93	89	90	87	84	84	82	79	79	77	75	72			
2	96	87	80	75	92	84	78	73	79	74	69	74	70	66	69	66	63	60			
3	87	77	68	62	84	74	67	61	69	63	58	65	60	55	61	57	53	50			
4	80	68	59	52	76	66	58	51	62	55	49	58	52	47	54	49	45	43			
5	73	61	52	45	70	59	50	44	55	48	43	52	46	41	49	44	39	37			
6	68	54	46	39	65	53	45	39	50	43	37	47	41	36	44	39	35	32			
7	63	49	41	35	60	48	40	34	45	38	33	43	36	32	40	35	31	29			
8	58	45	36	31	56	44	36	30	41	34	29	39	33	28	37	32	28	25			
9	54	41	33	28	52	40	32	27	38	31	26	36	30	26	34	29	25	23			
10	51	38	30	25	49	37	30	25	35	28	24	33	27	23	32	26	23	21			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11890	11890	11890
5°	11665	11707	11863
10°	11438	11535	11851
15°	11167	11344	11820
20°	10857	11126	11752
25°	10492	10872	11684
30°	10044	10600	11619
35°	9534	10315	11575
40°	8954	9994	11538
45°	8299	9647	11481
50°	7600	9290	11407
55°	6784	8868	11230
60°	5956	8377	10787
65°	5074	7770	9990
70°	4144	7019	9137
75°	3213	6153	8689
80°	2150	5405	9102
85°	1071	5119	11410



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.3	2.9
10°-20°	993.5	8.2
20°-30°	1502.5	12.4
30°-40°	1803.7	14.9
40°-50°	1863.0	15.4
50°-60°	1676.1	13.9
60°-70°	1262.6	10.4
70°-80°	762.4	6.3
80°-90°	375.8	3.1
90°-100°	267.6	2.2
100°-110°	474.8	3.9
110°-120°	383.4	3.2
120°-130°	188.3	1.6
130°-140°	95.0	0.8
140°-150°	53.7	0.4
150°-160°	29.7	0.2
160°-170°	14.0	0.1
170°-180°	4.2	0.0
0°-30°	2842.2	23.5
0°-40°	4646.0	38.4
0°-60°	8185.0	67.7
0°-90°	10585.7	87.5
90°-120°	1125.8	9.3
90°-150°	1462.9	12.1
90°-180°	1511.0	12.5
0°-180°	12096.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3655	3655	3655	3655	3655	
5°	3631	3641	3637	3651	3647	345
15°	3485	3502	3518	3547	3551	982
25°	3182	3217	3263	3314	3322	1464
35°	2721	2784	2899	2986	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°	3	111	250	315	330	8
95°	28	117	250	324	349	80
105°	487	512	504	416	398	461
115°	342	356	397	415	412	342
125°	171	180	211	225	228	159
135°	101	106	120	135	138	80
145°	79	80	82	90	93	50
155°	65	67	67	67	68	29
165°	48	48	49	49	49	14
175°	44	44	44	44	44	4
180°	43	43	43	43	43	



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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	3647.5	3659.1	3658.2
5°	3631.4	3641.3	3636.8	3651.0	3646.6
7.5°	3609.9	3620.7	3619.8	3635.9	3634.1
10°	3578.6	3590.3	3593.8	3615.3	3615.3
12.5°	3535.6	3550.9	3559.8	3585.8	3586.6
15°	3484.7	3501.7	3517.8	3547.3	3550.9
17.5°	3423.0	3444.5	3466.8	3500.8	3505.3
20°	3353.3	3377.4	3407.8	3443.5	3448.9
22.5°	3272.8	3301.3	3340.7	3382.8	3389.0
25°	3182.4	3217.3	3262.9	3313.9	3321.9
27.5°	3079.5	3119.8	3181.5	3238.7	3245.9
30°	2967.7	3015.1	3092.0	3160.1	3171.6
32.5°	2849.6	2904.3	2999.0	3075.0	3091.1
35°	2720.9	2784.4	2898.9	2986.5	3004.4
37.5°	2593.8	2663.6	2793.3	2893.5	2915.0
40°	2445.4	2532.1	2680.7	2791.5	2817.4
42.5°	2305.8	2399.7	2568.0	2688.7	2713.7
45°	2147.5	2255.8	2444.5	2577.7	2605.5
47.5°	1999.0	2116.3	2325.6	2463.3	2491.9
50°	1842.5	1971.3	2198.5	2342.5	2372.1
52.5°	1686.0	1824.6	2067.0	2216.4	2244.1
55°	1521.5	1678.8	1933.8	2079.5	2104.6
57.5°	1368.5	1534.9	1796.9	1935.6	1950.7
60°	1217.4	1390.0	1657.4	1779.0	1784.4
62.5°	1069.8	1251.3	1514.3	1610.9	1603.7
65°	928.4	1118.1	1368.5	1436.5	1420.4
67.5°	792.5	988.3	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	627.8	792.5	813.0	805.0
77.5°	331.8	517.0	668.1	694.9	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	397.2	451.7	459.7
87.5°	39.4	173.5	319.3	368.5	378.4
90°	2.8	110.6	249.5	315.1	330.4
92.5°	11.1	99.2	230.3	298.9	313.4
95°	27.7	117.4	249.9	324.4	349.2
97.5°	131.0	190.5	302.1	371.1	388.5
100°	262.2	322.9	357.7	405.5	417.4
102.5°	413.9	444.1	405.8	411.0	412.6
105°	487.3	512.2	504.1	416.3	398.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	396.1	416.0	456.9	465.3	453.1
115°	342.2	355.6	396.8	414.6	412.5
117.5°	289.1	302.6	341.2	358.1	358.9
120°	243.5	256.2	290.2	304.5	308.0
122.5°	206.3	215.4	247.7	261.9	265.5
125°	170.9	180.2	210.7	224.9	228.5
127.5°	143.0	150.5	180.2	195.3	198.0
130°	125.3	130.0	154.3	170.5	173.2
132.5°	112.3	117.0	134.9	150.2	154.8
135°	101.2	105.8	120.2	134.6	138.1
137.5°	93.7	97.4	107.3	120.8	125.3
140°	87.2	90.9	97.2	108.9	112.4
142.5°	82.5	84.4	88.0	98.7	102.4
145°	78.7	79.7	81.5	89.6	93.2
147.5°	74.1	75.9	77.8	81.4	85.0
150°	71.3	73.1	73.1	75.0	77.7
152.5°	67.6	69.4	69.4	69.5	71.3
155°	64.8	66.6	66.6	66.7	67.6
157.5°	53.0	54.9	54.9	55.8	55.8
160°	51.2	52.1	53.0	53.0	53.0
162.5°	49.3	50.2	50.2	51.2	51.2
165°	48.4	48.4	49.3	49.3	49.3
167.5°	46.5	46.5	47.5	47.5	47.5
170°	45.6	45.6	45.6	46.5	46.5
172.5°	44.7	44.7	44.7	44.7	44.7
175°	43.7	43.7	43.7	43.7	43.7
177.5°	42.8	43.7	43.7	43.7	43.7
180°	42.8	42.8	42.8	42.8	42.8



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	490.1	517.9	534.3	461.6	406.5
110°	449.2	478.1	505.9	492.8	449.8



(END OF REPORT)