

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: P826465

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P826465  
REPORT IS A COMBINATION OF REPORTS P826058 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-W-UNV-L830-CD-UPL12  
Description:  
Light Source: -  
Ballast/Driver: -

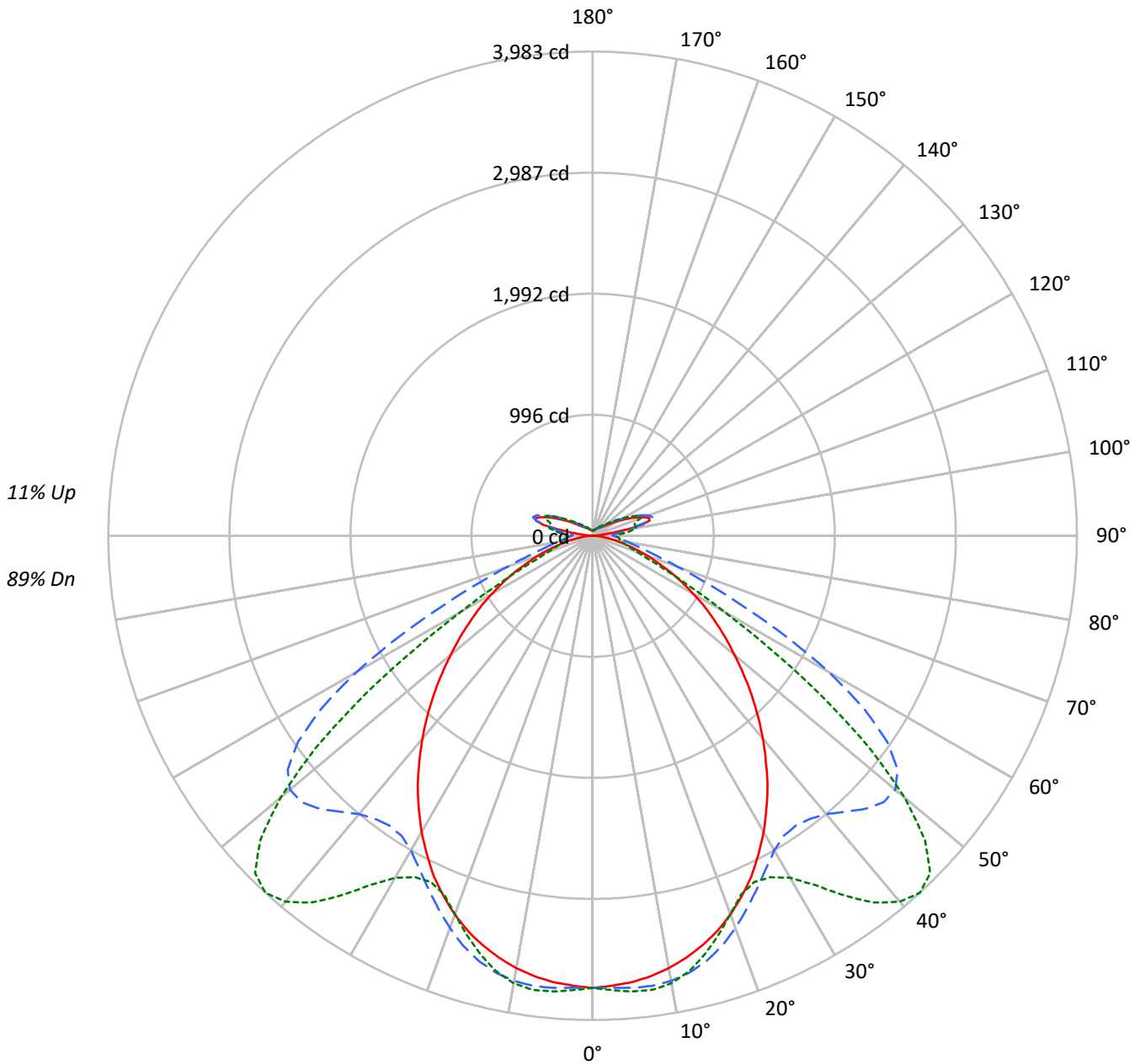
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12297.6 lumens  
Efficiency: N/A  
Efficacy: 156.9 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62  
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<sub>in</sub>): 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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89																			
1	107	102	98	94	103	99	95	92	92	89	87	87	84	82	81	79	78	75																			
2	97	89	83	77	94	86	81	76	81	76	72	76	72	69	72	69	66	63																			
3	89	79	71	64	85	76	69	63	72	66	61	67	62	58	63	59	56	53																			
4	81	69	61	54	78	67	60	54	64	57	52	60	54	50	56	52	48	45																			
5	74	62	53	47	72	60	52	46	57	50	44	54	48	43	51	46	41	39																			
6	69	56	47	41	66	54	46	40	51	44	39	48	42	37	46	40	36	34																			
7	63	50	42	36	61	49	41	35	46	39	34	44	38	33	42	36	32	30																			
8	59	46	37	31	57	44	37	31	42	35	30	40	34	29	38	33	28	26																			
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	30	26	24																			
10	51	38	30	25	49	37	30	25	36	29	24	34	28	24	32	27	23	21																			

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

	0°	45°	90°
0°	12103	12103	12103
5°	11839	12019	12241
10°	11544	11935	12255
15°	11175	11673	11863
20°	10729	11208	11281
25°	10187	10662	11055
30°	9521	10242	11896
35°	8789	10361	13921
40°	7973	11140	16093
45°	7137	12533	17299
50°	6284	13730	16098
55°	5483	13563	12300
60°	4680	11322	7521
65°	3856	7689	4556
70°	2966	4862	3289
75°	2087	3377	3049
80°	1322	2827	3441
85°	707	2856	5438



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	355.5	2.9
10°-20°	1006.7	8.2
20°-30°	1473.1	12.0
30°-40°	1913.1	15.6
40°-50°	2336.2	19.0
50°-60°	2057.4	16.7
60°-70°	1072.1	8.7
70°-80°	459.7	3.7
80°-90°	223.7	1.8
90°-100°	214.4	1.7
100°-110°	449.7	3.7
110°-120°	369.0	3.0
120°-130°	179.3	1.5
130°-140°	89.7	0.7
140°-150°	51.1	0.4
150°-160°	28.7	0.2
160°-170°	14.0	0.1
170°-180°	4.2	0.0
0°-30°	2835.3	23.1
0°-40°	4748.4	38.6
0°-60°	9141.9	74.3
0°-90°	10897.5	88.6
90°-120°	1033.1	8.4
90°-150°	1353.2	11.0
90°-180°	1400.0	11.4
0°-180°	12297.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3720	3720	3720	3720	3720	
5°	3686	3714	3734	3767	3763	350
15°	3487	3585	3620	3592	3564	982
25°	3090	3256	3200	3140	3143	1418
35°	2508	2773	2912	3396	3613	1563
45°	1847	2324	3176	3845	3926	1424
55°	1230	2035	2958	2593	2305	1104
65°	706	1410	1354	753	648	698
75°	284	660	435	298	282	310
85°	60	235	222	217	219	67
90°	4	102	168	196	204	6
95°	25	104	196	244	265	78
105°	484	504	481	378	357	459
115°	340	351	382	390	386	340
125°	169	178	201	208	209	157
135°	100	102	114	124	125	79
145°	76	76	78	84	86	48
155°	62	63	62	64	64	28
165°	48	48	49	49	49	14
175°	44	44	44	44	44	4
180°	43	43	43	43	43	



TEST NUMBER: P826465

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3720.2	3720.2	3720.2	3720.2	3720.2
2.5°	3704.1	3720.2	3720.9	3743.4	3741.0
5°	3685.7	3713.8	3733.8	3766.7	3762.7
7.5°	3655.1	3699.2	3734.6	3770.7	3767.4
10°	3611.8	3672.0	3718.5	3748.2	3738.6
12.5°	3555.6	3635.0	3680.8	3687.2	3668.8
15°	3487.4	3585.3	3619.8	3592.5	3563.7
17.5°	3410.3	3525.1	3537.1	3477.8	3441.7
20°	3314.0	3444.8	3432.8	3350.9	3310.8
22.5°	3207.3	3356.5	3318.0	3232.2	3193.7
25°	3090.1	3255.5	3200.1	3139.9	3143.0
27.5°	2952.8	3140.6	3086.8	3114.2	3165.6
30°	2813.2	3020.2	2987.4	3146.3	3247.4
32.5°	2659.9	2896.6	2926.3	3240.2	3405.6
35°	2508.2	2773.1	2911.9	3395.9	3613.3
37.5°	2340.4	2647.8	2935.2	3575.7	3803.6
40°	2177.5	2525.8	2988.1	3737.0	3929.6
42.5°	2011.4	2416.7	3077.3	3832.5	3982.6
45°	1846.8	2323.6	3176.0	3845.3	3925.6
47.5°	1682.3	2245.0	3244.2	3743.4	3706.5
50°	1523.4	2175.1	3249.0	3498.6	3347.8
52.5°	1374.9	2110.9	3160.7	3108.5	2874.2
55°	1229.6	2035.4	2957.7	2593.3	2305.1
57.5°	1097.2	1931.1	2644.6	2039.5	1724.8
60°	956.7	1789.8	2240.1	1492.1	1244.1
62.5°	827.5	1614.0	1786.7	1038.6	894.1
65°	705.5	1410.2	1354.1	752.8	647.8
67.5°	576.3	1199.1	999.2	549.0	481.6
70°	475.1	1003.2	744.1	427.0	387.7
72.5°	371.6	817.0	556.2	346.7	325.0
75°	284.1	659.8	435.0	297.8	282.5
77.5°	209.5	521.7	350.0	263.3	248.8
80°	146.8	410.9	292.9	235.2	229.6
82.5°	98.7	317.9	249.6	223.9	224.7
85°	60.2	235.2	221.6	216.7	219.1
87.5°	28.9	166.9	190.2	197.5	199.9
90°	3.6	101.8	168.4	195.8	203.5
92.5°	8.4	86.4	163.8	199.5	208.2
95°	24.8	103.8	196.4	244.4	265.1
97.5°	127.2	177.7	258.8	307.6	319.3
100°	259.3	311.7	323.0	353.2	360.3
102.5°	410.9	434.2	377.5	367.3	364.2
105°	484.4	503.6	481.2	378.3	356.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	393.8	411.0	441.9	438.3	424.1
115°	339.8	351.1	382.5	390.1	386.2
117.5°	286.6	299.2	328.5	335.3	334.3
120°	241.0	253.0	278.2	284.1	284.9
122.5°	203.8	212.5	236.9	243.0	244.7
125°	169.4	178.3	201.3	207.5	209.2
127.5°	141.6	148.0	172.2	179.2	180.1
130°	124.0	127.7	146.7	155.7	157.4
132.5°	110.9	113.7	128.7	137.6	140.1
135°	99.8	102.5	114.3	124.0	124.9
137.5°	92.3	94.2	102.5	111.5	114.1
140°	84.9	87.7	92.7	101.7	102.5
142.5°	80.0	81.1	85.4	92.8	94.5
145°	76.2	76.5	78.2	83.9	86.4
147.5°	71.6	72.6	74.4	77.7	79.5
150°	68.8	69.7	69.0	71.6	73.1
152.5°	65.0	66.0	65.3	66.3	67.8
155°	62.3	63.2	62.5	63.5	63.5
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°	487.9	510.6	515.1	428.1	370.2
110°	446.9	471.1	488.4	463.0	417.3



(END OF REPORT)