

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: P826551

Luminaire Tested: **OHBL-24SE-MFL-UNV-L830-CD-UPL12**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P826551  
REPORT IS A COMBINATION OF REPORTS P826079 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-24SE-MFL-UNV-L830-CD-UPL12  
Description:  
Light Source: -  
Ballast/Driver: -

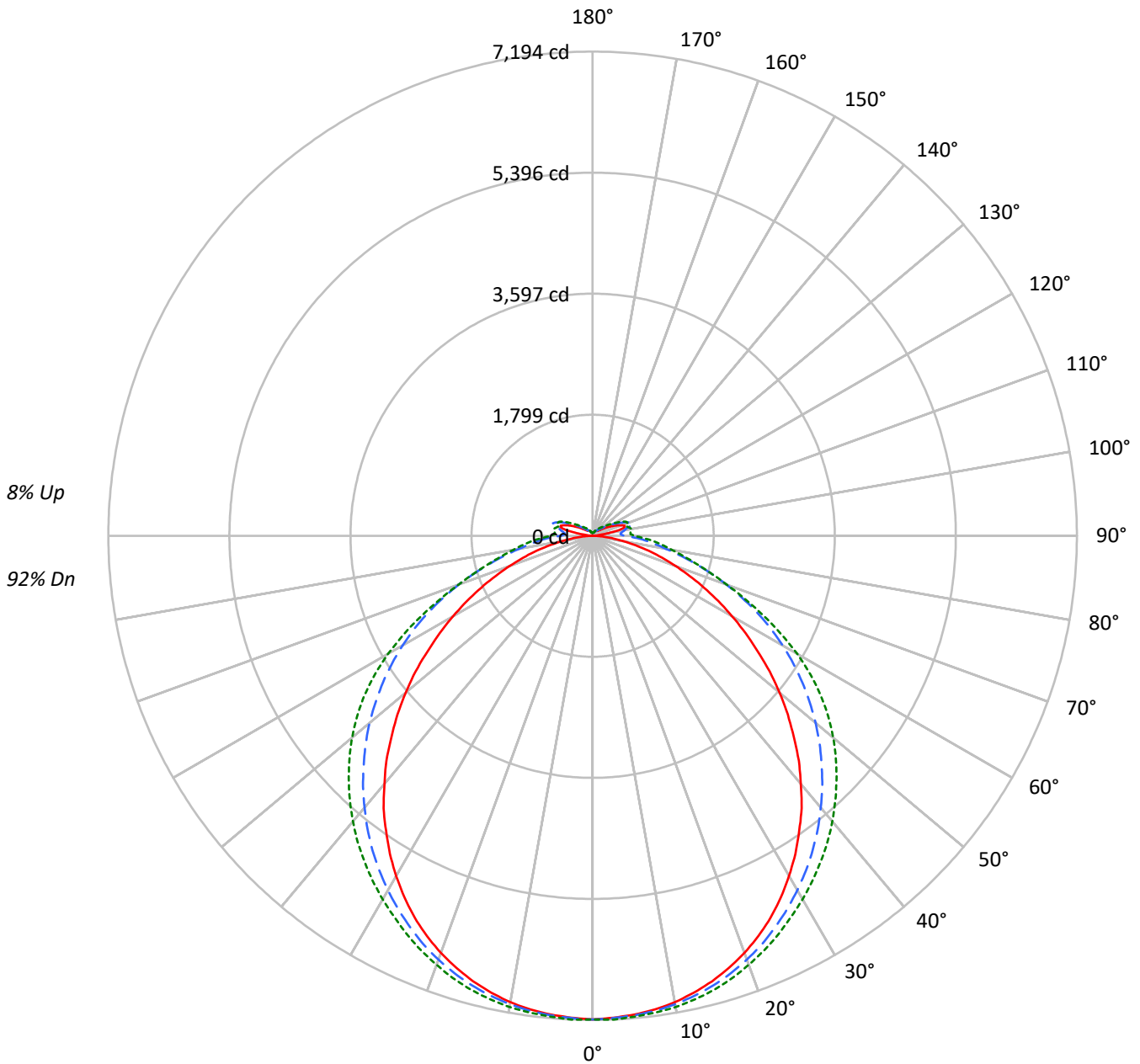
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22669.5 lumens  
Efficiency: N/A  
Efficacy: 154.8 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 146.4  
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	117	117	117	117	113	113	113	113	107	107	107	100	100	100	95	95	95	92																			
1	106	101	97	93	103	98	94	91	92	89	86	87	85	82	82	80	78	76																			
2	97	88	81	75	93	86	79	74	81	75	71	76	72	68	72	68	65	63																			
3	88	77	69	63	85	75	68	61	71	65	59	67	62	57	64	59	55	53																			
4	80	68	60	53	78	67	58	52	63	56	50	60	54	49	57	52	47	45																			
5	74	61	52	45	71	59	51	45	56	49	44	54	47	42	51	46	41	39																			
6	68	55	46	40	66	54	45	39	51	44	38	48	42	37	46	41	36	34																			
7	63	50	41	35	61	49	40	34	46	39	34	44	38	33	42	36	32	30																			
8	59	45	37	31	57	44	36	31	42	35	30	40	34	29	39	33	29	27																			
9	55	42	33	28	53	41	33	28	39	32	27	37	31	26	36	30	26	24																			
10	51	38	30	25	50	38	30	25	36	29	25	35	28	24	33	28	24	22																			

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

	0°	45°	90°
0°	12276	12276	12276
5°	12138	12154	12249
10°	11995	12042	12236
15°	11802	11908	12204
20°	11566	11746	12134
25°	11269	11544	12064
30°	10882	11327	11996
35°	10427	11095	11951
40°	9892	10828	11914
45°	9274	10538	11854
50°	8603	10245	11777
55°	7796	9886	11595
60°	6970	9464	11137
65°	6076	8927	10314
70°	5113	8242	9434
75°	4134	7451	8972
80°	2948	6864	9398
85°	1640	7070	11781



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	681.0	3.0
10°-20°	1953.8	8.6
20°-30°	2954.8	13.0
30°-40°	3547.3	15.6
40°-50°	3663.8	16.2
50°-60°	3296.2	14.5
60°-70°	2483.0	11.0
70°-80°	1499.3	6.6
80°-90°	736.2	3.2
90°-100°	419.4	1.8
100°-110°	561.4	2.5
110°-120°	434.3	1.9
120°-130°	217.0	1.0
130°-140°	110.1	0.5
140°-150°	61.1	0.3
150°-160°	32.5	0.1
160°-170°	14.0	0.1
170°-180°	4.2	0.0
0°-30°	5589.7	24.7
0°-40°	9137.0	40.3
0°-60°	16097.0	71.0
0°-90°	20815.5	91.8
90°-120°	1415.0	6.2
90°-150°	1803.3	8.0
90°-180°	1854.0	8.2
0°-180°	22669.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7187	7187	7187	7187	7187	
5°	7142	7161	7152	7180	7172	678
15°	6853	6887	6918	6976	6983	1932
25°	6259	6327	6417	6517	6533	2879
35°	5351	5476	5701	5873	5909	3345
45°	4223	4436	4807	5070	5124	3261
55°	2992	3302	3803	4090	4139	2683
65°	1826	2199	2691	2825	2793	1814
75°	860	1235	1558	1599	1583	918
85°	179	473	781	888	904	207
90°	3	202	469	592	618	13
95°	32	179	414	534	566	84
105°	493	548	599	541	528	467
115°	349	376	456	493	495	349
125°	178	190	246	276	282	165
135°	107	114	138	166	173	85
145°	87	88	90	105	111	55
155°	73	76	75	74	76	32
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°	7187.4	7187.4	7187.4	7187.4	7187.4
2.5°	7166.3	7183.9	7173.4	7196.2	7194.5
5°	7141.6	7161.0	7152.2	7180.4	7171.6
7.5°	7099.5	7120.6	7118.8	7150.5	7146.9
10°	7037.9	7060.8	7067.8	7110.0	7110.0
12.5°	6953.5	6983.4	7000.9	7051.9	7053.7
15°	6853.2	6886.6	6918.3	6976.4	6983.4
17.5°	6731.8	6774.1	6818.0	6884.9	6893.6
20°	6594.7	6642.1	6702.0	6772.3	6782.8
22.5°	6436.3	6492.6	6570.0	6652.6	6665.0
25°	6258.6	6327.2	6416.9	6517.2	6533.1
27.5°	6056.3	6135.5	6256.9	6369.5	6383.5
30°	5836.4	5929.7	6081.0	6214.7	6237.5
32.5°	5604.3	5711.6	5898.0	6047.6	6079.2
35°	5351.0	5475.9	5701.0	5873.4	5908.6
37.5°	5101.2	5238.4	5493.4	5690.4	5732.7
40°	4809.2	4979.9	5271.8	5489.9	5541.0
42.5°	4534.8	4719.5	5050.2	5287.7	5336.9
45°	4223.4	4436.3	4807.4	5069.6	5124.1
47.5°	3931.4	4161.9	4573.5	4844.4	4900.7
50°	3623.6	3876.9	4323.7	4606.9	4665.0
52.5°	3315.8	3588.4	4065.1	4358.9	4413.4
55°	2992.1	3301.7	3803.0	4089.8	4139.0
57.5°	2691.4	3018.5	3533.9	3806.5	3836.5
60°	2394.0	2733.5	3259.5	3498.7	3509.3
62.5°	2103.8	2460.9	2978.1	3168.0	3153.9
65°	1825.8	2198.8	2691.4	2825.0	2793.3
67.5°	1558.5	1943.7	2397.6	2483.7	2441.5
70°	1305.2	1695.8	2112.6	2156.6	2117.9
72.5°	1081.8	1460.0	1824.1	1861.0	1832.9
75°	860.2	1234.8	1558.5	1599.0	1583.2
77.5°	652.6	1016.7	1314.0	1366.8	1370.2
80°	469.7	818.0	1101.1	1183.9	1194.4
82.5°	309.6	635.0	923.5	1029.0	1044.8
85°	179.4	473.2	781.0	888.3	904.1
87.5°	77.4	341.2	627.9	724.7	744.1
90°	2.8	201.5	469.1	591.7	618.4
92.5°	13.7	174.5	418.8	539.3	563.3
95°	32.1	178.9	414.3	533.7	566.2
97.5°	136.1	242.3	444.7	553.6	578.7
100°	267.3	367.8	481.4	565.5	584.2
102.5°	419.0	483.9	513.9	551.1	558.8
105°	493.4	547.6	599.2	540.8	528.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	403.0	439.2	522.7	553.5	544.7
115°	349.1	375.5	455.5	493.2	494.7
117.5°	296.8	319.9	393.1	429.0	432.4
120°	251.2	270.9	336.1	367.6	374.6
122.5°	214.0	227.5	288.3	319.0	325.1
125°	177.8	189.6	246.1	275.9	282.1
127.5°	149.1	158.2	210.5	241.2	246.5
130°	131.4	136.9	180.2	211.0	216.4
132.5°	118.4	124.7	156.6	185.6	193.6
135°	107.2	113.5	138.4	165.7	172.7
137.5°	99.8	105.2	122.0	147.6	155.6
140°	94.1	98.6	109.3	131.3	138.4
142.5°	90.3	92.1	97.5	117.8	124.0
145°	87.4	87.5	90.2	105.2	111.4
147.5°	82.7	84.6	86.4	93.5	99.7
150°	79.9	82.6	81.8	84.5	89.8
152.5°	76.2	78.9	78.1	77.2	80.8
155°	73.4	76.1	75.3	74.4	76.2
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°	496.2	549.1	618.3	572.3	521.5
110°	455.2	505.8	580.3	591.4	552.7



(END OF REPORT)