

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: P826370

Luminaire Tested: **OHB-18SE-MCL-UNV-L830-CD-UPL24**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P826370  
REPORT IS A COMBINATION OF REPORTS P826198 AND G3-2310-221-6  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHB-18SE-MCL-UNV-L830-CD-UPL24  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

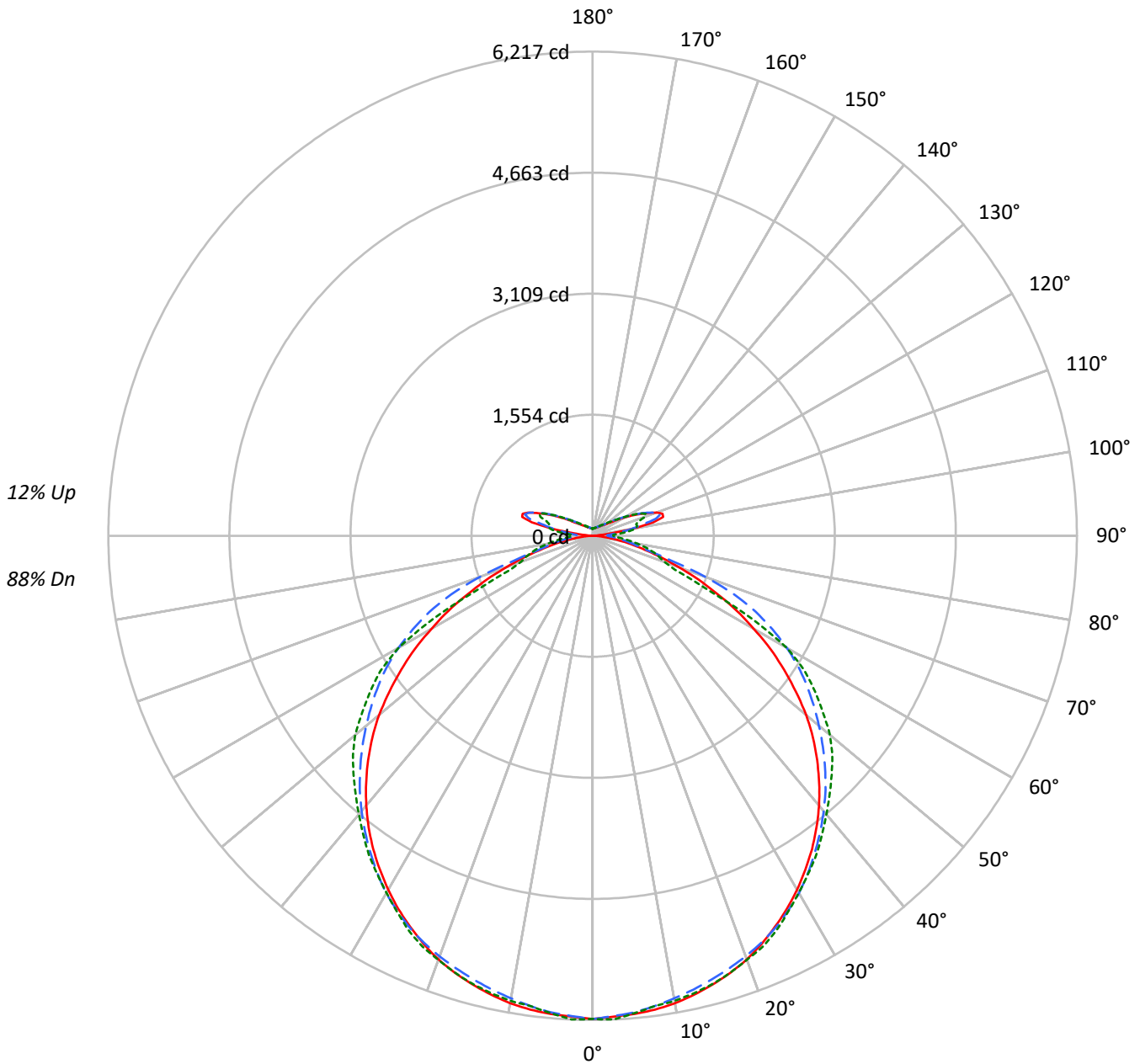
Lumens per Lamp: N/A  
Luminaire Lumens: 19788.5 lumens  
Efficiency: N/A  
Efficacy: 158.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 1.93' x L: 1.67' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 125  
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				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	106	102	98	94	102	98	95	91	92	89	86	86	84	81	80	79	77	74			
2	97	89	82	77	93	86	80	75	81	76	71	75	72	68	71	68	65	62			
3	88	78	70	64	85	76	69	63	71	65	60	67	62	58	63	59	55	52			
4	81	69	61	54	78	67	59	53	63	57	51	59	54	49	56	51	47	45			
5	74	62	53	47	71	60	52	46	57	50	44	53	47	43	50	45	41	39			
6	69	56	47	41	66	54	46	40	51	44	39	48	42	37	46	40	36	34			
7	64	50	42	36	61	49	41	35	46	39	34	44	38	33	42	36	32	30			
8	59	46	38	32	57	45	37	31	42	35	30	40	34	30	38	33	29	27			
9	55	42	34	29	53	41	33	28	39	32	27	37	31	27	35	30	26	24			
10	52	39	31	26	50	38	30	25	36	29	25	34	28	24	33	27	23	22			

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

	0°	45°	90°
0°	20726	20726	20726
5°	20490	20363	20479
10°	20316	19994	20263
15°	20087	19704	20139
20°	19856	19498	19972
25°	19511	19290	19807
30°	19142	18996	19445
35°	18715	18566	19251
40°	18190	18121	18985
45°	17503	17612	18876
50°	16612	17037	18746
55°	15283	16460	18068
60°	13594	15651	16729
65°	11455	14243	10623
70°	9004	10977	7721
75°	6508	6397	7866
80°	4262	5167	7557
85°	2133	4487	7169



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	585.0	3.0
10°-20°	1677.5	8.5
20°-30°	2562.1	12.9
30°-40°	3108.8	15.7
40°-50°	3258.3	16.5
50°-60°	2952.5	14.9
60°-70°	1979.5	10.0
70°-80°	888.9	4.5
80°-90°	328.3	1.7
90°-100°	312.8	1.6
100°-110°	794.8	4.0
110°-120°	665.5	3.4
120°-130°	320.9	1.6
130°-140°	162.9	0.8
140°-150°	95.2	0.5
150°-160°	56.4	0.3
160°-170°	29.8	0.2
170°-180°	9.1	0.0
0°-30°	4824.7	24.4
0°-40°	7933.5	40.1
0°-60°	14144.2	71.5
0°-90°	17340.9	87.6
90°-120°	1773.1	9.0
90°-150°	2352.2	11.9
90°-180°	2448.0	12.4
0°-180°	19788.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6204	6204	6204	6204	6204	
5°	6164	6186	6142	6161	6153	586
15°	5964	5941	5898	5950	5958	1684
25°	5540	5516	5555	5606	5590	2554
35°	4911	4922	4973	5026	5006	3069
45°	4076	4142	4219	4327	4340	3140
55°	2999	3143	3358	3492	3484	2677
65°	1760	2036	2311	1950	1592	1754
75°	692	1005	739	756	806	757
85°	119	229	293	354	371	146
90°	6	108	195	248	263	11
95°	50	151	264	339	370	154
105°	937	944	837	621	578	890
115°	651	661	676	682	678	656
125°	321	338	354	356	354	301
135°	194	199	206	212	215	154
145°	143	148	150	152	154	91
155°	117	120	122	122	122	55
165°	103	104	105	105	105	29
175°	94	94	94	94	94	9
180°	93	93	93	93	93	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6204.4	6204.4	6204.4	6204.4	6204.4
2.5°	6179.3	6205.2	6172.9	6207.9	6216.9
5°	6164.0	6185.5	6142.5	6161.3	6153.2
7.5°	6136.2	6143.3	6092.3	6107.5	6091.3
10°	6095.0	6091.3	6031.2	6060.8	6064.4
12.5°	6033.9	6023.1	5969.3	6014.2	6015.1
15°	5963.9	5940.6	5898.4	5950.5	5957.7
17.5°	5883.2	5852.7	5824.9	5892.2	5881.4
20°	5789.0	5753.2	5747.8	5821.3	5794.4
22.5°	5672.4	5644.6	5657.1	5727.1	5710.1
25°	5540.5	5516.2	5554.9	5606.0	5589.8
27.5°	5401.5	5387.1	5431.1	5470.6	5439.1
30°	5249.0	5240.9	5299.1	5331.5	5292.0
32.5°	5083.0	5085.7	5141.3	5185.2	5148.5
35°	4910.7	4922.4	4972.6	5025.6	5005.8
37.5°	4721.5	4747.5	4797.7	4857.8	4837.2
40°	4521.4	4559.1	4614.7	4687.4	4668.5
42.5°	4305.2	4352.8	4424.5	4505.3	4503.4
45°	4075.6	4141.9	4219.0	4326.7	4340.2
47.5°	3836.9	3911.4	4009.1	4152.7	4173.4
50°	3577.6	3670.9	3792.9	3965.2	3977.8
52.5°	3288.8	3416.2	3577.6	3742.7	3727.4
55°	2999.0	3143.4	3357.8	3492.5	3484.4
57.5°	2710.2	2872.5	3132.7	3228.7	3227.8
60°	2387.2	2592.6	2877.0	2949.7	2877.9
62.5°	2088.4	2309.2	2604.3	2551.4	2305.5
65°	1760.1	2035.5	2310.9	1950.3	1592.4
67.5°	1468.6	1755.6	1962.8	1335.8	1143.8
70°	1175.2	1491.9	1530.5	991.3	977.8
72.5°	915.0	1252.3	1055.9	848.7	891.8
75°	692.5	1004.7	739.2	756.3	805.6
77.5°	505.1	771.5	575.1	662.9	703.3
80°	347.2	546.3	469.2	557.1	584.9
82.5°	218.0	360.6	375.9	448.5	477.3
85°	119.3	228.7	293.3	354.4	371.4
87.5°	49.3	138.2	224.3	273.6	288.0
90°	5.6	107.9	195.3	247.9	263.3
92.5°	16.8	100.2	190.8	248.4	266.7
95°	50.2	150.8	264.1	338.6	370.2
97.5°	252.1	308.5	378.3	457.6	492.0
100°	516.4	576.7	512.8	553.2	564.3
102.5°	797.4	814.2	636.1	589.1	584.3
105°	937.0	943.8	836.6	621.1	578.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	758.1	775.6	778.7	765.4	737.4
115°	651.1	661.3	676.5	681.8	678.0
117.5°	558.1	560.8	578.0	582.4	585.1
120°	463.1	474.3	494.3	494.1	489.5
122.5°	389.6	400.8	416.2	418.8	414.2
125°	320.8	338.4	354.0	355.7	353.8
127.5°	273.3	285.4	301.9	305.5	305.5
130°	238.9	247.2	261.0	265.6	266.5
132.5°	213.7	221.1	230.3	237.7	236.7
135°	194.2	198.8	206.2	212.5	215.3
137.5°	179.2	182.0	187.6	195.0	195.8
140°	165.3	169.0	172.8	178.2	180.1
142.5°	152.3	156.9	159.8	164.3	165.2
145°	143.0	147.6	150.4	152.2	154.1
147.5°	135.5	139.2	141.1	142.9	143.9
150°	129.0	130.8	133.6	134.6	135.5
152.5°	122.5	124.3	127.1	128.0	128.0
155°	116.9	119.7	121.5	122.5	121.5
157.5°	112.2	115.0	116.9	117.8	117.8
160°	108.5	110.4	112.2	113.2	113.2
162.5°	105.7	106.6	107.6	108.5	108.5
165°	102.9	103.8	104.8	104.8	104.8
167.5°	100.1	101.1	101.1	102.0	102.0
170°	97.3	98.3	98.3	98.3	98.3
172.5°	95.5	96.4	96.4	95.5	96.4
175°	93.6	94.5	93.6	93.7	93.7
177.5°	94.5	93.6	92.7	91.8	90.9
180°	92.7	92.7	92.7	92.7	92.7



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	941.5	957.8	912.1	731.3	619.6
110°	869.9	887.2	867.7	804.2	714.8



(END OF REPORT)