

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: P826513

Luminaire Tested: **OHBL-18SE-MCL-UNV-L830-CD-UPL18**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P826513  
REPORT IS A COMBINATION OF REPORTS P826162 AND G3-2310-221-8  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-18SE-MCL-UNV-L830-CD-UPL18  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

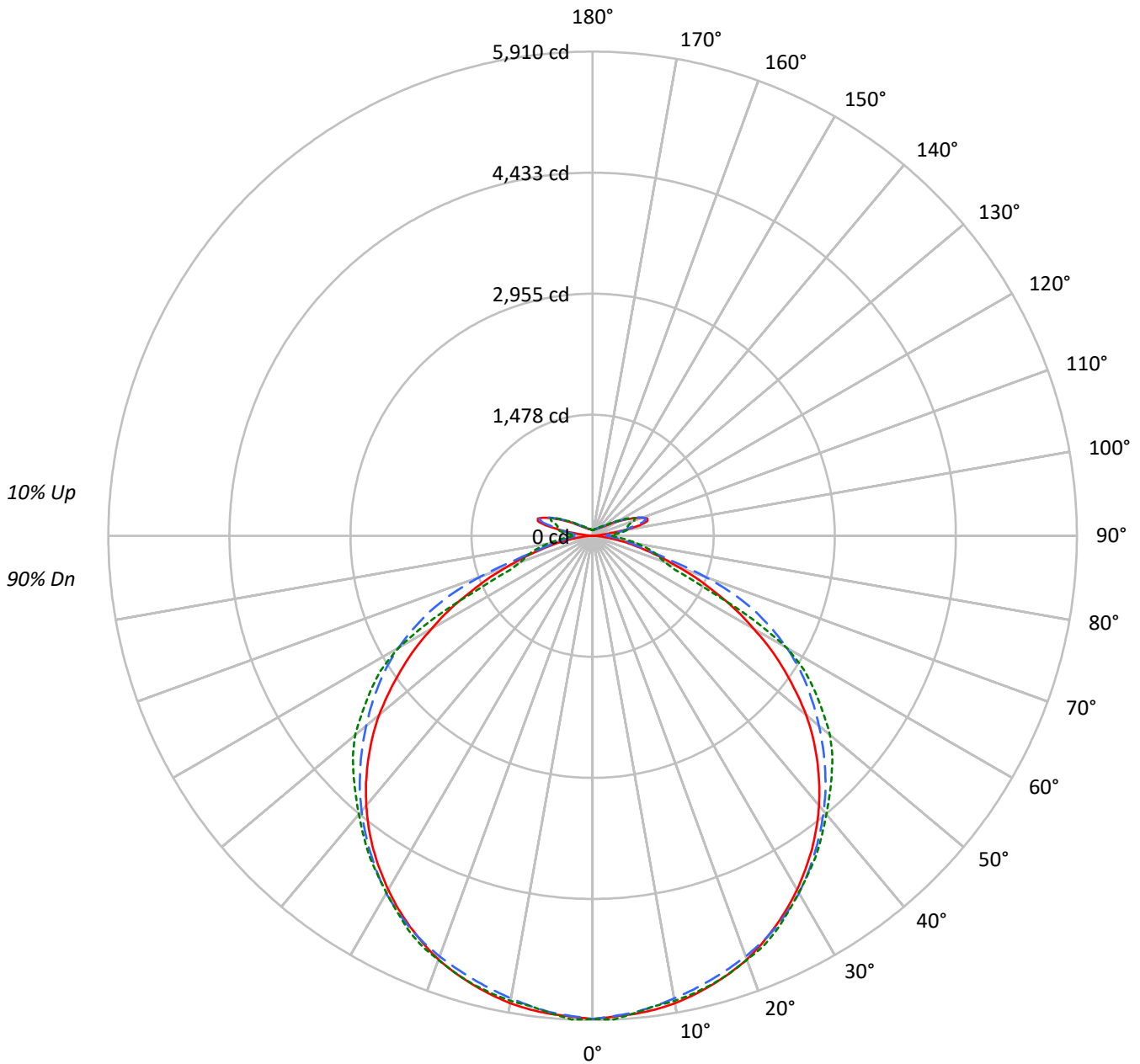
Lumens per Lamp: N/A  
Luminaire Lumens: 18336.5 lumens  
Efficiency: N/A  
Efficacy: 156.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 117.3  
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	117	117	117	117	113	113	113	113	105	105	105	99	99	99	93	93	93	90																			
1	107	102	98	94	103	99	95	92	93	90	87	87	85	83	82	80	79	76																			
2	97	89	83	77	94	87	81	76	82	77	72	77	73	69	72	69	66	64																			
3	89	79	71	64	86	76	69	63	72	66	61	68	63	59	64	60	56	54																			
4	81	70	61	55	78	68	60	54	64	57	52	60	55	50	57	52	48	46																			
5	75	62	53	47	72	60	52	46	57	50	45	54	48	43	51	46	42	40																			
6	69	56	47	41	66	54	46	40	52	45	39	49	43	38	47	41	37	35																			
7	64	51	42	36	62	49	41	36	47	40	35	45	38	34	42	37	33	31																			
8	59	46	38	32	57	45	37	32	43	36	31	41	35	30	39	33	29	27																			
9	55	42	34	29	53	41	34	28	39	33	28	38	31	27	36	30	26	25																			
10	52	39	31	26	50	38	31	26	36	30	25	35	29	25	33	28	24	22																			

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

	0°	45°	90°
0°	10074	10074	10074
5°	9960	9923	9991
10°	9875	9768	9922
15°	9764	9652	9898
20°	9651	9576	9854
25°	9484	9500	9813
30°	9304	9383	9676
35°	9097	9200	9625
40°	8841	9011	9542
45°	8508	8792	9545
50°	8075	8544	9546
55°	7429	8298	9279
60°	6607	7941	8683
65°	5568	7286	5589
70°	4376	5676	4141
75°	3164	3360	4340
80°	2072	2780	4375
85°	1037	2525	4601



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	556.1	3.0
10°-20°	1594.8	8.7
20°-30°	2435.7	13.3
30°-40°	2955.3	16.1
40°-50°	3097.5	16.9
50°-60°	2806.8	15.3
60°-70°	1881.8	10.3
70°-80°	845.0	4.6
80°-90°	310.8	1.7
90°-100°	251.6	1.4
100°-110°	596.9	3.3
110°-120°	497.2	2.7
120°-130°	240.3	1.3
130°-140°	122.3	0.7
140°-150°	71.8	0.4
150°-160°	42.8	0.2
160°-170°	22.7	0.1
170°-180°	6.9	0.0
0°-30°	4586.6	25.0
0°-40°	7541.9	41.1
0°-60°	13446.2	73.3
0°-90°	16483.9	89.9
90°-120°	1345.7	7.3
90°-150°	1780.2	9.7
90°-180°	1853.0	10.1
0°-180°	18336.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5898	5898	5898	5898	5898	
5°	5860	5880	5839	5857	5850	557
15°	5670	5647	5607	5657	5664	1601
25°	5267	5244	5281	5329	5314	2428
35°	4668	4680	4727	4778	4759	2918
45°	3874	3938	4011	4113	4126	2985
55°	2851	2988	3192	3320	3312	2545
65°	1673	1935	2197	1854	1514	1667
75°	658	955	703	719	766	720
85°	113	218	279	337	353	138
90°	5	96	176	223	236	9
95°	36	122	219	276	301	112
105°	693	703	631	469	440	658
115°	484	493	507	508	509	488
125°	239	251	266	267	266	225
135°	145	149	155	161	162	115
145°	108	111	114	116	116	69
155°	89	91	92	93	92	42
165°	78	79	79	80	80	22
175°	72	72	72	71	71	7
180°	71	71	71	71	71	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5898.1	5898.1	5898.1	5898.1	5898.1
2.5°	5874.3	5899.1	5868.4	5901.6	5910.1
5°	5859.8	5880.3	5839.3	5857.3	5849.6
7.5°	5833.4	5840.2	5791.6	5806.1	5790.8
10°	5794.1	5790.8	5733.6	5761.7	5765.2
12.5°	5736.1	5725.9	5674.7	5717.3	5718.3
15°	5669.6	5647.4	5607.3	5656.8	5663.6
17.5°	5592.8	5563.9	5537.5	5601.4	5591.2
20°	5503.3	5469.2	5464.1	5534.0	5508.4
22.5°	5392.5	5366.0	5378.0	5444.5	5428.3
25°	5267.1	5244.1	5280.7	5329.4	5314.0
27.5°	5134.9	5121.2	5163.0	5200.6	5170.7
30°	4989.9	4982.2	5037.7	5068.4	5030.9
32.5°	4832.1	4834.7	4887.6	4929.3	4894.4
35°	4668.4	4679.5	4727.2	4777.6	4758.8
37.5°	4488.4	4513.2	4560.9	4618.1	4598.4
40°	4298.2	4334.1	4386.9	4456.1	4438.1
42.5°	4092.8	4137.9	4206.2	4282.9	4281.2
45°	3874.4	3937.6	4010.9	4113.2	4126.0
47.5°	3647.6	3718.3	3811.3	3947.8	3967.3
50°	3401.1	3489.8	3605.8	3769.5	3781.5
52.5°	3126.5	3247.5	3401.1	3558.0	3543.6
55°	2851.0	2988.3	3192.2	3320.0	3312.4
57.5°	2576.4	2730.8	2978.1	3069.3	3068.5
60°	2269.3	2464.7	2735.0	2804.1	2735.9
62.5°	1985.4	2195.2	2475.7	2425.5	2191.7
65°	1673.2	1935.1	2196.9	1854.0	1513.7
67.5°	1396.1	1669.0	1866.0	1269.8	1087.4
70°	1117.2	1418.3	1454.9	942.4	929.6
72.5°	869.9	1190.6	1003.8	806.8	847.7
75°	658.4	955.2	702.8	718.9	765.8
77.5°	480.2	733.5	546.7	630.3	668.6
80°	330.1	519.3	446.0	529.6	556.0
82.5°	207.2	342.8	357.3	426.4	453.7
85°	113.4	217.5	278.9	336.9	353.1
87.5°	46.9	131.3	213.2	260.1	273.8
90°	4.6	95.8	175.8	222.7	235.9
92.5°	12.9	86.2	168.9	216.5	229.9
95°	36.2	121.5	219.0	275.6	301.4
97.5°	183.1	234.0	304.2	362.2	380.5
100°	376.6	422.6	398.5	428.8	437.0
102.5°	588.8	608.3	480.4	451.5	448.4
105°	693.0	702.7	631.1	469.2	440.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	566.2	575.8	581.8	574.5	552.9
115°	484.2	493.2	506.8	508.0	508.7
117.5°	413.4	418.0	432.6	435.9	438.5
120°	346.4	353.8	368.7	370.1	369.2
122.5°	290.6	299.0	313.0	314.5	313.5
125°	238.6	250.6	265.7	267.3	266.3
127.5°	204.1	212.4	227.7	229.3	228.3
130°	178.0	185.4	195.2	199.6	200.5
132.5°	161.2	164.9	173.0	177.4	179.2
135°	145.4	149.1	154.6	160.7	162.5
137.5°	134.2	137.0	140.7	146.7	148.6
140°	124.0	126.7	128.6	133.9	135.7
142.5°	114.6	118.4	120.2	123.8	125.5
145°	108.1	110.9	113.7	115.5	116.3
147.5°	102.5	104.4	106.3	108.1	109.0
150°	97.0	98.8	100.7	101.6	102.5
152.5°	93.2	94.2	96.0	97.0	97.0
155°	88.6	91.3	92.2	93.1	92.3
157.5°	85.8	87.6	88.5	89.4	89.4
160°	83.0	83.8	84.8	85.7	85.7
162.5°	81.1	81.1	82.0	82.9	82.9
165°	78.3	79.2	79.2	80.1	80.1
167.5°	76.4	77.2	77.3	77.3	78.3
170°	74.5	74.5	75.5	74.6	74.6
172.5°	72.7	73.6	73.6	72.8	72.8
175°	71.7	71.7	71.8	70.9	70.9
177.5°	71.7	71.7	70.9	70.0	69.1
180°	70.9	70.9	70.9	70.9	70.9



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	700.3	712.2	683.9	549.1	469.8
110°	642.5	658.6	651.9	603.7	541.3



(END OF REPORT)