

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: P826515

Luminaire Tested: **OHBL-18SE-MFL-UNV-L830-CD-UPL12**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P826515  
REPORT IS A COMBINATION OF REPORTS P826067 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-18SE-MFL-UNV-L830-CD-UPL12  
Description:  
Light Source: -  
Ballast/Driver: -

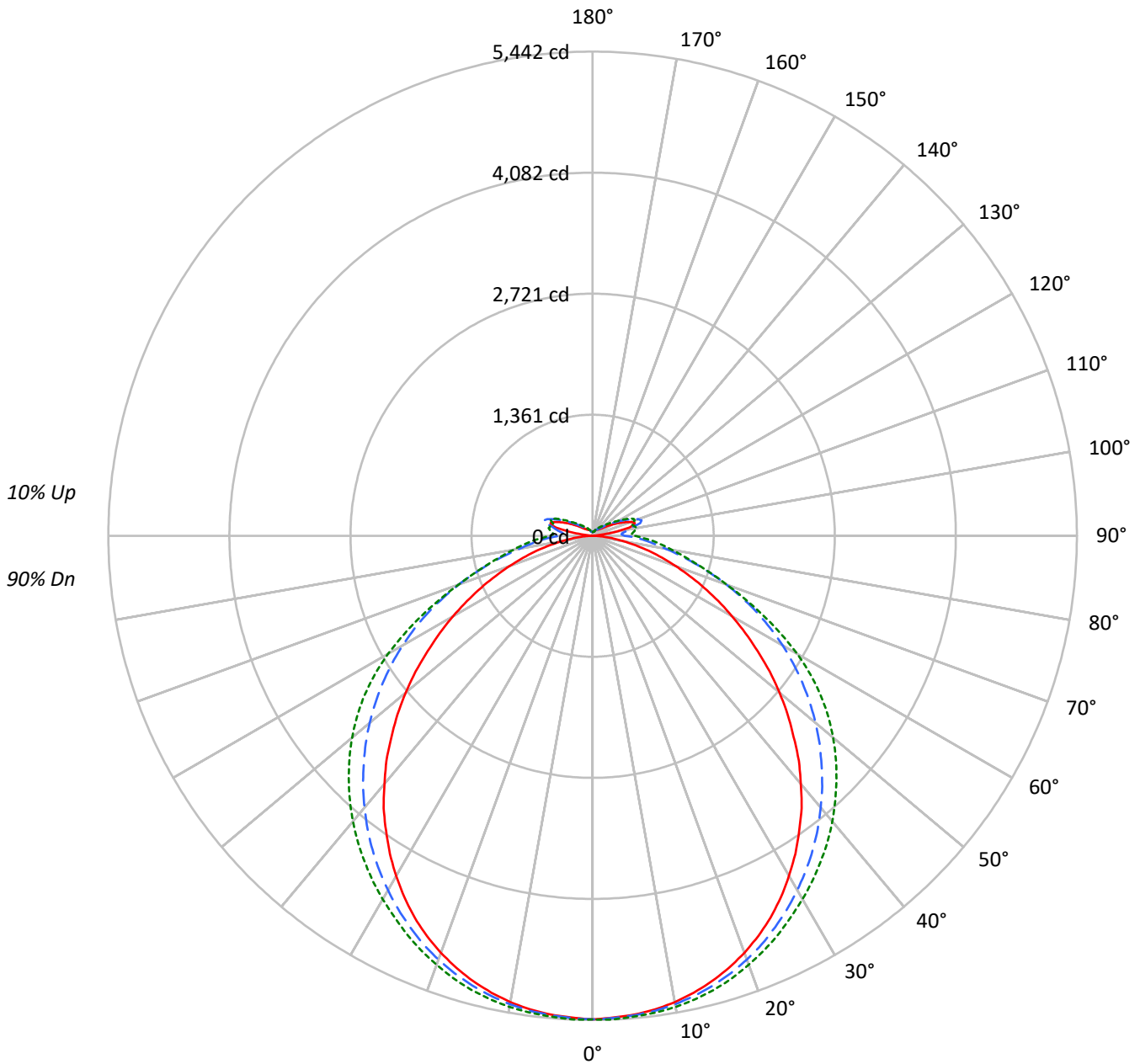
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17428.6 lumens  
Efficiency: N/A  
Efficacy: 153.7 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): 113.4  
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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	90																			
1	106	101	97	93	102	98	94	90	92	89	86	86	84	81	81	79	77	74																			
2	96	88	81	75	93	85	79	73	80	75	70	75	71	67	71	67	64	62																			
3	88	77	69	62	84	75	67	61	70	64	59	66	61	57	63	58	54	52																			
4	80	68	59	53	77	66	58	52	63	56	50	59	53	48	56	51	47	44																			
5	74	61	52	45	71	59	51	45	56	49	43	53	47	42	50	45	41	38																			
6	68	55	46	39	65	53	45	39	51	43	38	48	42	37	46	40	36	33																			
7	63	50	41	35	61	48	40	34	46	39	33	44	37	33	42	36	32	30																			
8	59	45	37	31	57	44	36	31	42	35	30	40	34	29	38	33	28	26																			
9	55	41	33	28	53	40	33	27	39	32	27	37	31	26	35	30	26	24																			
10	51	38	30	25	50	37	30	25	36	29	24	34	28	24	33	27	23	21																			

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

	0°	45°	90°
0°	9285	9285	9285
5°	9181	9193	9264
10°	9072	9108	9255
15°	8926	9007	9231
20°	8748	8884	9177
25°	8524	8732	9125
30°	8231	8567	9074
35°	7887	8392	9039
40°	7482	8190	9011
45°	7014	7971	8966
50°	6507	7749	8908
55°	5897	7477	8770
60°	5272	7158	8424
65°	4596	6751	7801
70°	3867	6234	7135
75°	3126	5636	6785
80°	2229	5191	7108
85°	1241	5348	8912



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	515.1	3.0
10°-20°	1477.8	8.5
20°-30°	2234.9	12.8
30°-40°	2683.0	15.4
40°-50°	2771.1	15.9
50°-60°	2493.1	14.3
60°-70°	1878.0	10.8
70°-80°	1134.0	6.5
80°-90°	557.6	3.2
90°-100°	344.2	2.0
100°-110°	518.5	3.0
110°-120°	409.1	2.3
120°-130°	202.8	1.2
130°-140°	102.6	0.6
140°-150°	57.5	0.3
150°-160°	31.1	0.2
160°-170°	14.0	0.1
170°-180°	4.2	0.0
0°-30°	4227.8	24.3
0°-40°	6910.8	39.7
0°-60°	12175.1	69.9
0°-90°	15744.7	90.3
90°-120°	1271.7	7.3
90°-150°	1634.6	9.4
90°-180°	1684.0	9.7
0°-180°	17428.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5436	5436	5436	5436	5436	
5°	5402	5416	5410	5431	5424	513
15°	5184	5209	5233	5277	5282	1461
25°	4734	4786	4854	4929	4941	2177
35°	4047	4142	4312	4442	4469	2530
45°	3194	3355	3636	3834	3876	2466
55°	2263	2497	2876	3093	3131	2029
65°	1381	1663	2036	2137	2113	1372
75°	651	934	1179	1209	1197	694
85°	136	358	591	672	684	157
90°	3	156	360	455	476	10
95°	30	148	333	430	459	82
105°	490	530	552	479	464	464
115°	346	366	426	454	454	346
125°	174	185	228	251	256	162
135°	104	110	129	150	156	83
145°	83	84	86	97	102	52
155°	69	71	71	71	72	30
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°	5436.3	5436.3	5436.3	5436.3	5436.3
2.5°	5420.3	5433.6	5425.6	5442.9	5441.6
5°	5401.7	5416.3	5409.7	5430.9	5424.3
7.5°	5369.8	5385.7	5384.4	5408.3	5405.7
10°	5323.2	5340.5	5345.8	5377.8	5377.8
12.5°	5259.3	5281.9	5295.2	5333.9	5335.2
15°	5183.5	5208.8	5232.7	5276.6	5281.9
17.5°	5091.7	5123.6	5156.9	5207.4	5214.1
20°	4987.9	5023.8	5069.0	5122.2	5130.2
22.5°	4868.2	4910.7	4969.3	5031.8	5041.1
25°	4733.8	4785.7	4853.5	4929.3	4941.3
27.5°	4580.8	4640.7	4732.4	4817.6	4828.3
30°	4414.5	4485.0	4599.4	4700.5	4717.8
32.5°	4238.9	4320.0	4461.1	4574.1	4598.1
35°	4047.3	4141.7	4312.0	4442.4	4469.0
37.5°	3858.4	3962.1	4155.0	4304.0	4336.0
40°	3637.4	3766.5	3987.4	4152.4	4190.9
42.5°	3429.9	3569.6	3819.7	3999.3	4036.7
45°	3194.4	3355.4	3636.1	3834.4	3875.7
47.5°	2973.6	3147.9	3459.2	3664.1	3706.7
50°	2740.8	2932.4	3270.3	3484.5	3528.4
52.5°	2507.9	2714.2	3074.7	3296.9	3338.1
55°	2263.1	2497.2	2876.4	3093.4	3130.6
57.5°	2035.6	2283.1	2672.9	2879.1	2901.8
60°	1810.8	2067.5	2465.3	2646.3	2654.3
62.5°	1591.2	1861.3	2252.5	2396.2	2385.5
65°	1381.0	1663.1	2035.6	2136.7	2112.7
67.5°	1178.8	1470.2	1813.4	1878.6	1846.7
70°	987.2	1282.6	1597.9	1631.2	1601.9
72.5°	818.2	1104.3	1379.7	1407.7	1386.3
75°	650.6	934.0	1178.8	1209.4	1197.4
77.5°	493.6	769.0	993.8	1033.8	1036.5
80°	355.2	618.6	832.8	895.4	903.4
82.5°	234.1	480.3	698.5	778.3	790.3
85°	135.7	357.9	590.7	671.9	683.9
87.5°	58.5	258.1	475.0	548.2	562.8
90°	2.8	156.4	360.3	454.6	475.6
92.5°	12.4	137.2	325.4	420.1	439.4
95°	29.9	148.4	332.9	429.9	458.7
97.5°	133.6	216.6	374.0	463.1	484.4
100°	264.8	345.5	420.1	486.2	501.5
102.5°	416.5	464.2	460.3	481.7	486.3
105°	490.4	530.0	552.1	479.1	463.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	399.6	427.7	490.1	509.8	499.3
115°	345.6	365.6	426.4	454.2	453.9
117.5°	293.0	311.4	367.4	393.8	396.0
120°	247.4	263.6	313.4	336.3	341.6
122.5°	210.2	221.5	268.2	290.7	295.6
125°	174.4	184.9	228.5	250.7	255.5
127.5°	146.1	154.4	195.4	218.5	222.5
130°	128.4	133.4	167.4	191.0	195.0
132.5°	115.4	120.9	145.8	168.1	174.3
135°	104.2	109.7	129.3	150.3	155.6
137.5°	96.8	101.3	114.7	134.3	140.5
140°	90.6	94.8	103.3	120.2	125.5
142.5°	86.4	88.3	92.8	108.4	113.2
145°	83.1	83.7	85.9	97.4	102.4
147.5°	78.4	80.3	82.2	87.5	92.4
150°	75.7	77.9	77.5	79.7	83.8
152.5°	71.9	74.2	73.8	73.4	76.0
155°	69.1	71.4	71.0	70.6	71.9
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°	493.2	533.7	576.7	517.4	464.5
110°	452.2	492.1	543.4	542.5	501.7



(END OF REPORT)