

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: P826519

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P826519  
REPORT IS A COMBINATION OF REPORTS P826164 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-N-UNV-L830-CD-UPL18  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

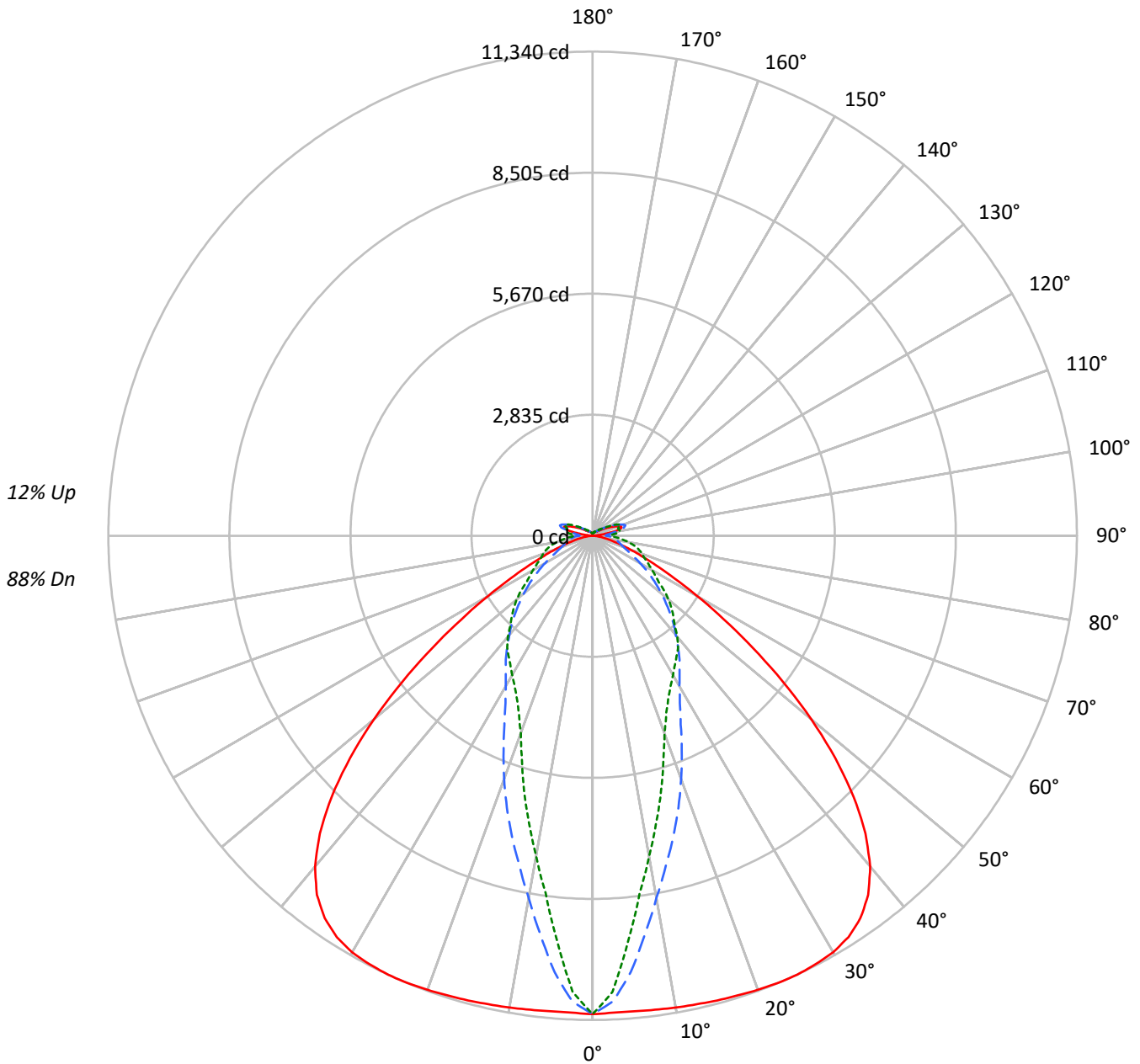
Lumens per Lamp: N/A  
Luminaire Lumens: 18199.7 lumens  
Efficiency: N/A  
Efficacy: 155.2 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
CIE Type: Semi-Direct

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				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	107	102	98	95	103	99	95	92	92	90	87	87	84	82	81	79	78	75			
2	98	91	85	79	94	88	82	77	82	78	74	77	74	70	73	70	67	64			
3	90	81	74	68	87	78	72	66	74	68	64	70	65	61	66	62	59	56			
4	84	73	65	59	80	71	63	58	67	61	56	63	58	54	60	55	52	49			
5	77	66	58	52	75	64	56	51	61	54	49	57	52	48	54	50	46	44			
6	72	60	52	46	69	58	51	45	55	49	44	53	47	43	50	45	41	39			
7	67	55	47	41	65	53	46	41	51	44	40	48	43	39	46	41	37	35			
8	63	50	43	37	61	49	42	37	47	41	36	45	39	35	43	38	34	32			
9	59	47	39	34	57	46	38	34	44	37	33	42	36	32	40	35	31	30			
10	56	43	36	31	54	42	36	31	41	34	30	39	33	30	37	32	29	27			

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

	0°	45°	90°
0°	19134	19134	19134
5°	19002	17425	16280
10°	19123	14678	13118
15°	19401	12553	10820
20°	19843	10614	8797
25°	20419	8785	7749
30°	21003	7569	7241
35°	21306	6898	6942
40°	20796	6231	6632
45°	18980	5630	6189
50°	15867	4974	5862
55°	11924	4357	5275
60°	8242	3737	5120
65°	5446	3218	5102
70°	3630	3020	5485
75°	2429	3115	6079
80°	1573	3450	6653
85°	809	4315	7933



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	943.0	5.2
10°-20°	2218.4	12.2
20°-30°	2780.8	15.3
30°-40°	2950.7	16.2
40°-50°	2667.9	14.7
50°-60°	1934.4	10.6
60°-70°	1214.0	6.7
70°-80°	803.4	4.4
80°-90°	467.0	2.6
90°-100°	383.5	2.1
100°-110°	708.1	3.9
110°-120°	570.9	3.1
120°-130°	274.5	1.5
130°-140°	135.3	0.7
140°-150°	77.8	0.4
150°-160°	43.7	0.2
160°-170°	20.0	0.1
170°-180°	6.1	0.0
0°-30°	5942.3	32.7
0°-40°	8893.0	48.9
0°-60°	13495.4	74.2
0°-90°	15979.7	87.8
90°-120°	1662.5	9.1
90°-150°	2150.2	11.8
90°-180°	2220.0	12.2
0°-180°	18199.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11203	11203	11203	11203	11203	
5°	11180	10894	10254	9778	9532	###
15°	11266	9182	7293	6486	6192	3195
25°	11340	7100	4883	4334	4197	5239
35°	10934	4720	3544	3433	3432	6797
45°	8644	2990	2568	2630	2675	6585
55°	4576	1853	1676	1818	1883	4135
65°	1637	1075	970	1243	1382	1703
75°	505	579	652	1012	1073	563
85°	88	240	477	663	609	106
90°	4	124	308	431	439	8
95°	40	147	363	486	523	115
105°	698	730	760	645	620	663
115°	489	516	601	626	628	493
125°	245	261	311	326	323	230
135°	148	153	172	189	190	117
145°	113	116	121	131	130	71
155°	93	98	100	102	100	42
165°	69	70	70	71	71	20
175°	62	62	63	63	63	6
180°	62	62	62	62	62	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	11202.8	11202.8	11202.8	11202.8	11202.8
2.5°	11179.3	11115.3	10916.0	10794.4	10692.0
5°	11180.3	10893.5	10253.8	9778.3	9532.0
7.5°	11196.4	10558.7	9406.1	8712.0	8441.3
10°	11220.8	10144.0	8615.0	7875.1	7622.4
12.5°	11239.0	9676.9	7918.7	7158.6	6881.4
15°	11265.7	9182.3	7293.0	6485.8	6191.5
17.5°	11290.2	8716.3	6674.5	5831.1	5503.8
20°	11314.7	8214.1	6056.1	5187.1	4917.4
22.5°	11338.2	7684.2	5452.6	4687.1	4502.7
25°	11340.3	7100.0	4883.3	4334.2	4196.6
27.5°	11312.6	6494.3	4421.6	4038.8	3953.6
30°	11264.6	5906.9	4063.4	3825.6	3764.8
32.5°	11145.2	5307.6	3786.2	3619.8	3584.6
35°	10934.0	4720.2	3544.1	3433.2	3432.2
37.5°	10601.4	4198.8	3281.8	3262.6	3286.1
40°	10109.8	3742.4	3033.4	3084.6	3084.6
42.5°	9454.2	3345.8	2808.4	2860.6	2846.8
45°	8643.8	2989.7	2568.5	2630.4	2675.2
47.5°	7704.4	2676.2	2323.3	2442.7	2504.5
50°	6683.1	2377.7	2099.4	2251.9	2322.2
52.5°	5612.6	2101.5	1880.8	2055.7	2112.2
55°	4576.2	1853.1	1676.1	1817.9	1883.0
57.5°	3637.9	1616.4	1475.7	1610.0	1744.3
60°	2830.8	1412.8	1287.0	1478.8	1613.2
62.5°	2162.3	1231.5	1110.0	1356.2	1490.6
65°	1636.7	1074.8	970.3	1243.2	1381.8
67.5°	1233.6	939.3	861.5	1161.1	1296.5
70°	926.6	808.2	774.0	1110.0	1231.5
72.5°	684.5	687.7	704.8	1065.1	1157.9
75°	505.4	579.0	651.5	1011.9	1072.7
77.5°	361.4	479.8	603.5	947.9	969.2
80°	250.6	391.3	553.4	863.6	845.5
82.5°	156.7	313.5	508.5	770.9	720.8
85°	88.5	239.9	476.6	663.2	608.8
87.5°	39.5	179.1	416.9	517.1	483.0
90°	3.7	123.5	307.8	431.0	438.8
92.5°	14.2	113.9	306.0	426.8	445.0
95°	39.6	146.7	363.1	485.9	523.2
97.5°	186.8	260.1	449.6	569.5	597.1
100°	380.5	448.2	539.4	627.8	644.0
102.5°	592.8	635.6	615.5	638.5	641.4
105°	698.1	729.9	759.5	645.0	619.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	570.9	600.2	686.0	706.3	688.4
115°	489.1	516.0	601.4	625.7	627.9
117.5°	419.4	438.2	515.8	540.6	542.6
120°	352.4	371.8	439.4	459.0	457.2
122.5°	296.6	313.5	371.5	386.8	383.9
125°	245.4	260.8	311.1	326.2	323.3
127.5°	209.0	219.5	263.1	277.0	274.1
130°	182.9	191.6	222.8	238.6	239.5
132.5°	164.2	169.1	193.9	209.7	211.6
135°	148.4	153.3	171.8	188.6	189.6
137.5°	136.3	142.3	154.6	170.3	171.2
140°	126.1	130.9	140.1	154.8	155.8
142.5°	118.7	122.6	129.6	141.3	142.2
145°	113.2	116.2	121.2	130.6	129.5
147.5°	106.7	110.7	113.7	120.9	119.9
150°	101.2	106.3	108.1	112.2	112.1
152.5°	97.4	101.6	103.5	106.5	105.4
155°	92.8	97.9	99.8	101.9	99.8
157.5°	77.2	78.2	79.1	80.0	80.0
160°	74.4	74.4	75.4	76.3	76.3
162.5°	71.7	71.7	72.6	73.5	73.5
165°	68.9	69.8	69.8	70.7	70.7
167.5°	67.0	67.0	67.9	67.9	68.9
170°	65.1	65.1	66.1	66.1	66.1
172.5°	63.3	64.2	64.2	64.2	64.2
175°	62.3	62.3	63.3	63.3	63.3
177.5°	61.4	62.3	62.3	62.3	62.3
180°	62.3	62.3	62.3	62.3	62.3



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	704.6	739.8	804.2	708.8	635.3
110°	647.0	684.3	765.2	748.8	692.1



(END OF REPORT)