

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: P826518

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P826518
REPORT IS A COMBINATION OF REPORTS P826068 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-N-UNV-L830-CD-UPL12
Description:
Light Source: -
Ballast/Driver: -

Summary

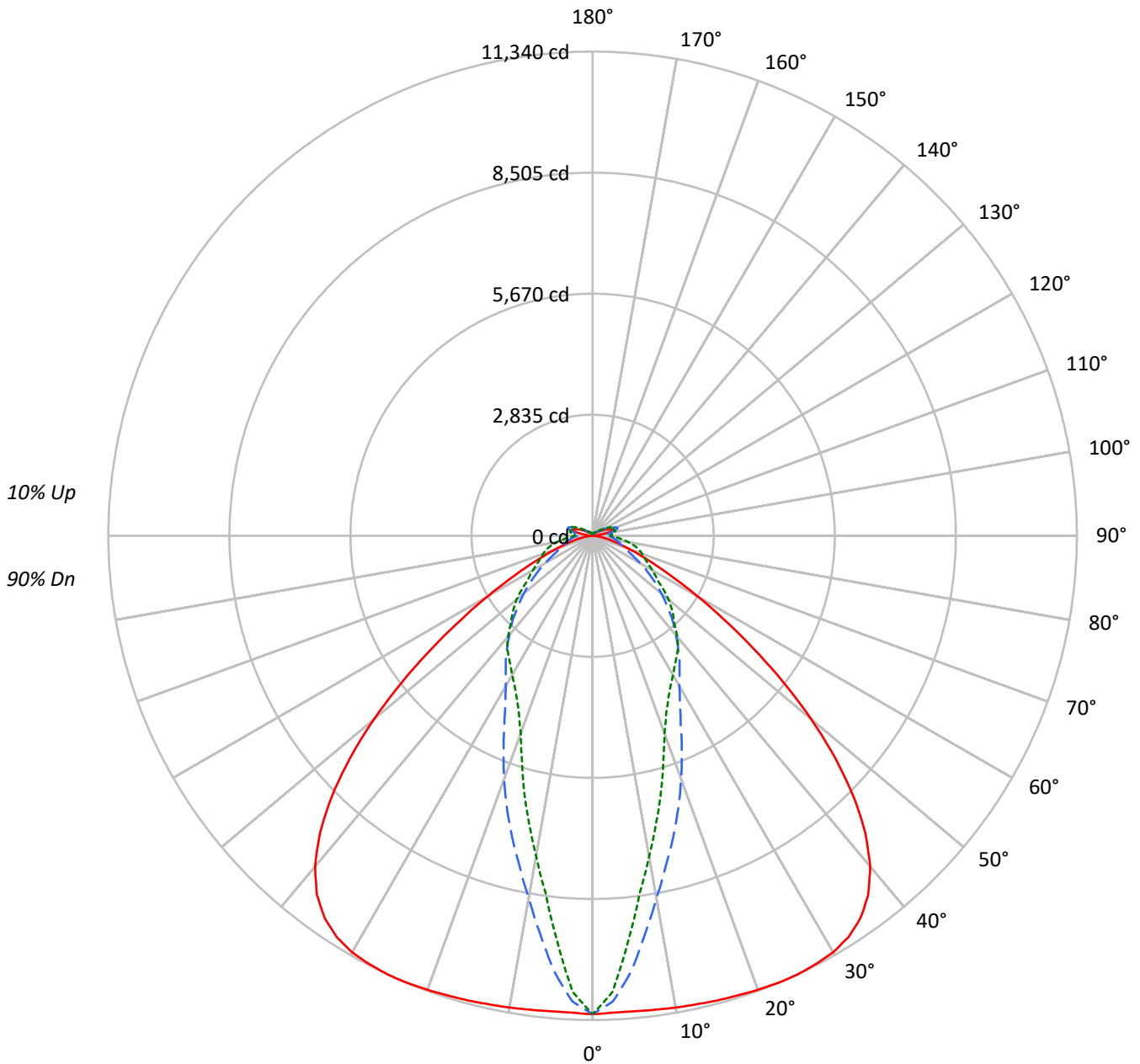
Lumens per Lamp: N/A
Luminaire Lumens: 17693.0 lumens
Efficiency: N/A
Efficacy: 156.0 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Direct

Input Watts (W): 113.4
Input Voltage (V): NR
Input Current (A_{in}): 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	107	103	99	95	104	100	96	93	94	91	88	88	86	84	83	81	80	77																			
2	99	91	85	80	95	89	83	78	83	79	75	79	75	72	75	72	69	66																			
3	91	81	74	68	88	79	72	67	75	69	65	71	66	62	67	63	60	58																			
4	84	73	65	59	81	71	64	58	68	61	56	64	59	55	61	57	53	51																			
5	78	66	58	52	75	65	57	51	61	55	50	59	53	49	56	51	47	45																			
6	73	60	52	46	70	59	51	46	56	50	45	54	48	44	51	46	42	40																			
7	68	55	47	42	65	54	47	41	52	45	40	49	44	39	47	42	38	36																			
8	63	51	43	38	61	50	42	37	48	41	37	46	40	36	44	39	35	33																			
9	59	47	40	34	58	46	39	34	44	38	33	43	37	33	41	36	32	30																			
10	56	44	36	32	54	43	36	31	41	35	31	40	34	30	38	33	30	28																			

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	5.3
10°-20°	2218.4	12.5
20°-30°	2780.8	15.7
30°-40°	2950.7	16.7
40°-50°	2667.9	15.1
50°-60°	1934.4	10.9
60°-70°	1214.0	6.9
70°-80°	803.4	4.5
80°-90°	465.7	2.6
90°-100°	334.9	1.9
100°-110°	539.9	3.1
110°-120°	426.3	2.4
120°-130°	204.8	1.2
130°-140°	100.6	0.6
140°-150°	57.8	0.3
150°-160°	32.0	0.2
160°-170°	14.0	0.1
170°-180°	4.2	0.0
0°-30°	5942.3	33.6
0°-40°	8893.0	50.3
0°-60°	13495.4	76.3
0°-90°	15978.4	90.3
90°-120°	1301.2	7.4
90°-150°	1664.4	9.4
90°-180°	1715.0	9.7
0°-180°	17693.0	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°	3	117	298	418	425	8
95°	28	124	323	438	470	80
105°	490	522	583	522	505	464
115°	347	368	455	482	480	346
125°	176	187	235	249	249	164
135°	106	110	128	144	144	84
145°	82	86	89	98	98	52
155°	69	73	75	77	75	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°	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°	2.8	117.0	298.5	418.0	424.9
92.5°	10.5	104.6	290.1	406.4	421.7
95°	27.5	124.3	323.1	438.5	470.1
97.5°	130.9	198.7	382.6	489.5	511.5
100°	263.3	331.8	439.9	522.6	538.0
102.5°	416.0	454.1	487.1	523.1	527.0
105°	489.7	522.4	582.7	522.1	505.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	399.7	428.1	522.2	542.5	532.1
115°	346.7	368.0	455.3	482.4	480.0
117.5°	293.8	313.5	392.0	415.9	415.1
120°	248.2	266.6	332.4	351.1	351.1
122.5°	211.0	224.2	280.3	295.6	295.5
125°	176.5	187.3	234.8	248.9	248.8
127.5°	148.5	156.2	197.9	211.9	210.9
130°	130.8	136.7	166.9	182.8	182.8
132.5°	116.8	121.6	144.6	160.4	161.4
135°	105.6	110.5	128.0	144.0	144.0
137.5°	98.2	103.2	114.6	129.3	130.3
140°	90.7	95.6	103.8	117.6	117.6
142.5°	86.2	89.1	95.2	106.8	107.8
145°	82.5	85.5	88.6	98.1	97.9
147.5°	77.9	81.9	84.9	90.2	90.1
150°	75.1	79.3	80.2	84.3	83.3
152.5°	71.4	75.6	76.5	79.6	78.4
155°	68.6	72.8	74.7	76.8	74.6
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°	492.4	529.5	609.7	557.1	505.0
110°	452.5	488.9	577.2	578.5	538.5



(END OF REPORT)