

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: P826502

Luminaire Tested: **OHBL-18HE-N-UNV-L830-CD-UPL24**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P826502
REPORT IS A COMBINATION OF REPORTS P826230 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: OHBL-18HE-N-UNV-L830-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

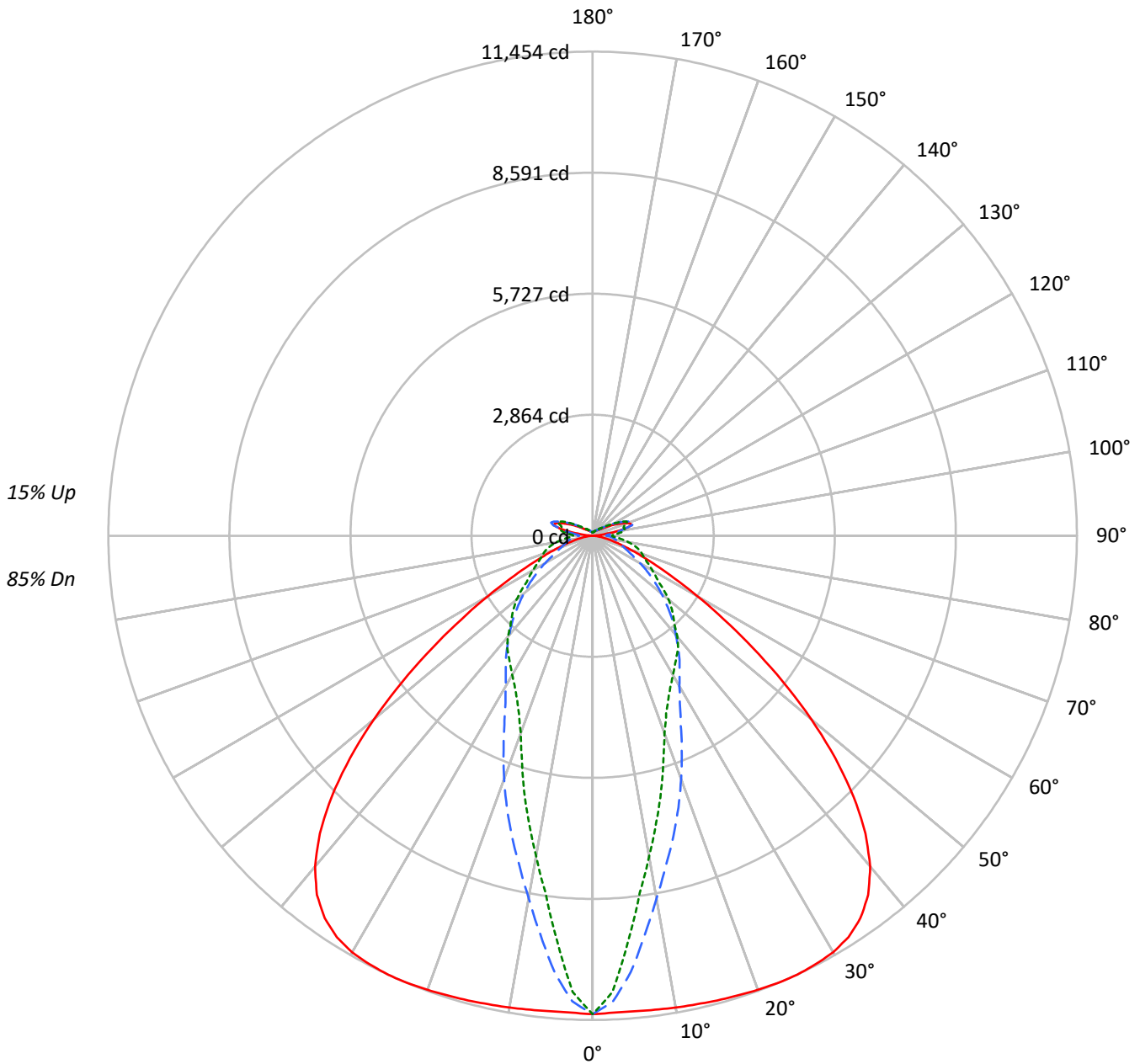
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18952.9 lumens
Efficiency: N/A
Efficacy: 157.4 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): 120.4
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	116	116	116	116	111	111	111	111	103	103	103	95	95	95	88	88	88	85																			
1	106	102	98	94	102	98	95	91	91	88	86	85	83	81	79	77	76	73																			
2	98	90	84	79	94	87	81	77	81	77	73	76	72	69	71	68	65	63																			
3	90	80	73	67	86	78	71	66	73	67	63	68	64	60	64	60	57	54																			
4	83	72	64	58	80	70	63	57	66	60	55	62	57	53	58	54	50	48																			
5	77	65	57	51	74	63	56	50	60	53	48	56	51	47	53	48	45	42																			
6	71	59	51	45	69	58	50	45	55	48	43	52	46	42	49	44	40	38																			
7	67	54	46	41	64	53	45	40	50	44	39	47	42	38	45	40	36	34																			
8	62	50	42	37	60	49	41	36	46	40	35	44	38	34	42	37	33	31																			
9	59	46	39	34	56	45	38	33	43	37	32	41	35	31	39	34	30	29																			
10	55	43	36	31	53	42	35	30	40	34	30	38	33	29	36	32	28	26																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19327	19327	19327
5°	19194	17600	16444
10°	19316	14825	13250
15°	19596	12679	10929
20°	20043	10721	8885
25°	20625	8874	7828
30°	21215	7645	7314
35°	21521	6967	7012
40°	21005	6293	6699
45°	19172	5687	6251
50°	16026	5025	5922
55°	12044	4401	5328
60°	8325	3774	5171
65°	5501	3251	5153
70°	3666	3051	5541
75°	2453	3146	6139
80°	1588	3485	6721
85°	817	4358	8013



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	952.5	5.0
10°-20°	2240.8	11.8
20°-30°	2808.8	14.8
30°-40°	2980.5	15.7
40°-50°	2694.8	14.2
50°-60°	1953.9	10.3
60°-70°	1226.2	6.5
70°-80°	811.4	4.3
80°-90°	473.2	2.5
90°-100°	442.2	2.3
100°-110°	905.3	4.8
110°-120°	739.0	3.9
120°-130°	354.9	1.9
130°-140°	175.7	0.9
140°-150°	101.1	0.5
150°-160°	57.2	0.3
160°-170°	27.0	0.1
170°-180°	8.2	0.0
0°-30°	6002.1	31.7
0°-40°	8982.6	47.4
0°-60°	13631.3	71.9
0°-90°	16142.1	85.2
90°-120°	2086.5	11.0
90°-150°	2718.3	14.3
90°-180°	2811.0	14.8
0°-180°	18952.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11316	11316	11316	11316	11316	
5°	11293	11003	10357	9877	9628	###
15°	11379	9275	7366	6551	6254	3227
25°	11454	7171	4932	4378	4239	5292
35°	11044	4768	3580	3468	3467	6866
45°	8731	3020	2594	2657	2702	6651
55°	4622	1872	1693	1836	1902	4176
65°	1653	1086	980	1256	1396	1720
75°	510	585	658	1022	1083	569
85°	89	242	481	670	615	107
90°	5	133	323	451	460	9
95°	54	174	406	546	589	157
105°	942	970	964	796	757	894
115°	656	684	771	799	797	661
125°	328	348	399	414	411	306
135°	197	203	223	240	242	156
145°	148	153	158	167	167	94
155°	121	126	129	131	129	55
165°	93	94	95	95	95	27
175°	84	85	85	86	86	8
180°	84	84	84	84	84	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11315.6	11315.6	11315.6	11315.6	11315.6
2.5°	11291.9	11227.2	11025.9	10903.1	10799.7
5°	11292.9	11003.3	10357.1	9876.8	9628.0
7.5°	11309.1	10665.1	9501.0	8799.8	8526.3
10°	11333.9	10246.2	8701.8	7954.4	7699.1
12.5°	11352.2	9774.5	7998.6	7230.7	6950.7
15°	11379.1	9274.8	7366.4	6551.1	6253.9
17.5°	11404.0	8804.2	6741.8	5889.9	5559.2
20°	11428.7	8296.9	6117.1	5239.4	4966.9
22.5°	11452.3	7761.7	5507.6	4734.3	4548.0
25°	11454.5	7171.4	4932.5	4377.8	4238.9
27.5°	11426.6	6559.8	4466.1	4079.6	3993.4
30°	11378.1	5966.4	4104.3	3864.1	3802.7
32.5°	11257.5	5361.1	3824.3	3656.2	3620.7
35°	11044.2	4767.7	3579.8	3467.8	3466.7
37.5°	10708.2	4241.1	3314.9	3295.5	3319.2
40°	10211.7	3780.1	3063.9	3115.7	3115.7
42.5°	9549.4	3379.5	2836.7	2889.5	2875.5
45°	8730.9	3019.7	2594.4	2656.8	2702.1
47.5°	7782.1	2703.2	2346.7	2467.3	2529.8
50°	6750.3	2401.6	2120.6	2274.6	2345.7
52.5°	5669.1	2122.7	1899.7	2076.3	2133.5
55°	4622.3	1871.7	1693.0	1836.2	1901.9
57.5°	3674.6	1632.7	1490.5	1626.2	1761.9
60°	2859.3	1427.0	1299.9	1493.7	1629.4
62.5°	2184.1	1243.9	1121.1	1369.9	1505.5
65°	1653.1	1085.6	980.1	1255.7	1395.7
67.5°	1246.0	948.8	870.2	1172.8	1309.6
70°	935.9	816.4	781.9	1121.1	1243.9
72.5°	691.4	694.7	711.9	1075.9	1169.6
75°	510.5	584.8	658.0	1022.0	1083.4
77.5°	365.1	484.6	609.5	957.4	978.9
80°	253.1	395.2	559.0	872.3	854.1
82.5°	158.3	316.7	513.7	778.6	728.1
85°	89.4	242.3	481.4	669.9	614.9
87.5°	39.8	180.9	421.1	522.3	487.9
90°	4.7	132.9	322.6	450.8	460.5
92.5°	18.0	125.9	324.4	454.6	477.5
95°	53.6	174.4	405.6	546.0	589.0
97.5°	255.7	333.2	521.8	662.8	706.5
100°	520.1	601.3	652.3	750.7	769.8
102.5°	801.3	840.8	770.0	775.1	776.3
105°	942.0	970.5	964.1	796.2	757.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	762.7	799.6	882.8	897.0	872.5
115°	655.8	683.9	771.1	799.3	797.0
117.5°	563.8	580.9	661.1	687.1	689.1
120°	468.9	492.1	565.0	583.0	577.4
122.5°	395.4	415.1	474.6	491.1	484.4
125°	327.5	348.5	399.2	414.4	410.6
127.5°	278.0	292.2	337.0	353.1	351.1
130°	243.5	253.1	288.3	304.3	305.2
132.5°	216.4	225.1	251.0	269.8	268.8
135°	196.9	202.8	223.2	240.2	242.0
137.5°	181.1	187.0	201.3	218.0	218.0
140°	167.1	173.0	184.1	198.9	199.8
142.5°	156.1	160.9	168.9	181.6	181.6
145°	147.9	152.6	157.6	167.1	167.0
147.5°	139.5	145.4	148.3	155.5	154.5
150°	133.0	138.1	140.9	145.0	144.9
152.5°	126.5	131.6	134.4	137.4	136.3
155°	120.9	126.0	128.9	130.9	128.8
157.5°	103.3	105.2	107.0	107.9	107.9
160°	99.6	100.5	102.4	103.3	103.3
162.5°	95.8	96.8	97.7	98.6	98.6
165°	93.1	94.0	94.9	94.9	94.9
167.5°	90.3	90.3	91.2	92.1	92.1
170°	87.5	88.4	88.4	89.3	89.3
172.5°	85.6	86.5	86.5	86.5	87.5
175°	83.8	84.7	84.7	85.6	85.6
177.5°	83.8	83.8	83.8	83.8	83.8
180°	83.8	83.8	83.8	83.8	83.8



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	945.7	985.0	1031.9	890.5	784.6
110°	874.2	912.7	980.7	948.9	865.2



(END OF REPORT)