

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: P826611

Luminaire Tested: **OHBL-48HE-A-UNV-L830-CD-UPL24**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P826611
REPORT IS A COMBINATION OF REPORTS P826251 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-48HE-A-UNV-L830-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

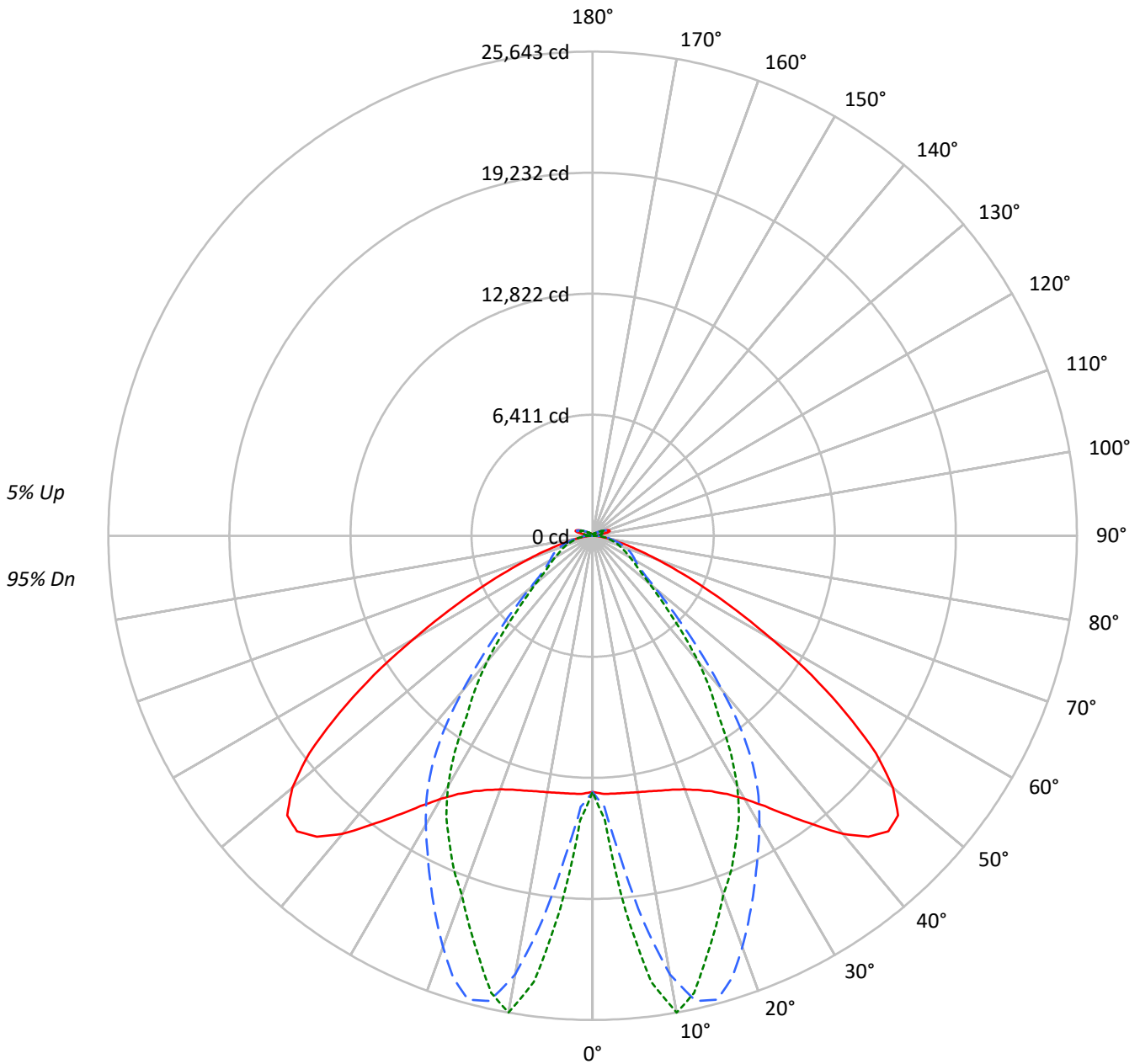
Lumens per Lamp: N/A
Luminaire Lumens: 45797.6 lumens
Efficiency: N/A
Efficacy: 161.6 lumens/watt
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 283.4
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

TEST NUMBER: P826611

CATALOG NUMBER: OHBL-48HE-A-UNV-L830-CD-UPL24

Luminous Intensity Polar Plot





TEST NUMBER: P826611

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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	118	118	118	118	115	115	115	115	108	108	108	103	103	103	98	98	98	95																			
1	109	105	102	99	106	103	100	97	98	95	93	93	91	89	89	87	86	83																			
2	101	94	88	84	98	92	87	82	88	83	80	84	80	77	80	77	75	73																			
3	94	85	78	72	91	83	76	71	79	74	69	76	71	68	73	69	66	64																			
4	87	76	69	63	84	75	68	62	72	66	61	69	64	60	66	62	58	56																			
5	80	69	61	55	78	68	60	55	65	59	54	63	57	53	61	56	52	50																			
6	75	63	55	49	73	62	54	49	60	53	48	58	52	48	56	51	47	45																			
7	70	58	50	44	68	57	49	44	55	48	43	53	47	43	51	46	42	40																			
8	65	53	45	40	64	52	45	40	51	44	39	49	43	39	48	42	38	37																			
9	61	49	42	37	60	48	41	36	47	40	36	46	40	35	44	39	35	33																			
10	58	46	38	33	56	45	38	33	44	37	33	42	37	33	41	36	32	31																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21460	21460	21460
5°	21584	27004	31459
10°	21790	37246	40862
15°	22324	40593	37504
20°	23262	37683	33517
25°	24976	33906	30658
30°	27871	30546	27262
35°	32792	26751	21724
40°	39465	20385	17289
45°	45314	13898	12305
50°	45993	9541	9101
55°	39866	7516	7435
60°	29830	7041	6689
65°	20491	7074	6337
70°	13140	6837	6137
75°	7935	6347	5871
80°	4701	5604	6058
85°	2293	4856	5618



TEST NUMBER: P826611

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1771.6	3.9
10°-20°	6252.7	13.7
20°-30°	9213.7	20.1
30°-40°	9682.2	21.1
40°-50°	7408.6	16.2
50°-60°	4473.6	9.8
60°-70°	2730.0	6.0
70°-80°	1490.0	3.3
80°-90°	528.7	1.2
90°-100°	215.8	0.5
100°-110°	749.0	1.6
110°-120°	642.5	1.4
120°-130°	308.2	0.7
130°-140°	154.2	0.3
140°-150°	89.4	0.2
150°-160°	52.1	0.1
160°-170°	27.0	0.1
170°-180°	8.2	0.0
0°-30°	17237.9	37.6
0°-40°	26920.1	58.8
0°-60°	38802.4	84.7
0°-90°	43551.1	95.1
90°-120°	1607.3	3.5
90°-150°	2159.2	4.7
90°-180°	2246.0	4.9
0°-180°	45797.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13570	13570	13570	13570	13570	
5°	13706	14705	17154	19154	19893	###
15°	13973	21764	25435	23735	23177	3973
25°	14932	25258	20307	18384	17931	6978
35°	18087	20227	14794	12320	11600	11474
45°	22137	11542	6815	5996	5744	16726
55°	16371	3914	3102	2875	2866	14466
65°	6563	2478	2282	1953	1853	6725
75°	1748	1541	1413	1166	1119	2011
85°	260	478	563	513	466	321
90°	5	32	44	58	64	17
95°	49	103	160	212	240	153
105°	933	923	785	559	514	886
115°	644	650	650	649	643	649
125°	314	331	338	337	334	295
135°	186	190	196	198	200	147
145°	135	139	141	142	143	86
155°	108	110	112	113	113	51
165°	93	94	95	95	95	27
175°	84	85	85	86	86	8
180°	84	84	84	84	84	



TEST NUMBER: P826611

CATALOG NUMBER: OHBL-48HE-A-UNV-L830-CD-UPL24

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13569.9	13569.9	13569.9	13569.9	13569.9
2.5°	13681.0	13820.7	14371.2	14942.6	15081.7
5°	13706.1	14704.6	17153.9	19153.8	19892.9
7.5°	13735.2	16136.7	20601.6	23050.2	23834.0
10°	13790.5	17947.5	23589.0	25347.0	25643.1
12.5°	13859.1	19866.1	25232.9	25168.9	24795.3
15°	13973.1	21763.6	25435.4	23735.1	23177.1
17.5°	14093.1	23369.1	24552.2	22174.5	21688.6
20°	14287.9	24560.8	23178.3	20787.2	20235.0
22.5°	14569.1	25216.1	21737.5	19532.6	19172.4
25°	14931.6	25258.5	20306.6	18384.5	17930.7
27.5°	15417.4	24672.6	18935.0	17259.8	16780.2
30°	16078.5	23550.7	17660.6	15903.3	15308.7
32.5°	16976.3	21935.9	16346.7	14265.9	13599.0
35°	18086.6	20227.4	14793.7	12320.0	11599.6
37.5°	19298.1	18330.5	12908.9	10597.0	10177.4
40°	20601.6	16375.8	10675.0	8984.5	8684.3
42.5°	21618.8	14250.7	8599.9	7466.4	7146.9
45°	22137.3	11542.0	6814.6	5996.5	5744.5
47.5°	21935.3	8959.5	5402.3	4764.6	4689.0
50°	20757.0	6615.6	4324.7	3924.9	3893.5
52.5°	18914.7	4931.0	3572.3	3325.0	3270.9
55°	16371.2	3913.8	3102.1	2875.1	2866.5
57.5°	13745.0	3325.0	2815.9	2640.1	2578.9
60°	10943.8	2964.8	2598.8	2400.4	2276.4
62.5°	8578.4	2712.8	2439.4	2169.9	2054.1
65°	6563.2	2477.7	2282.2	1952.9	1853.4
67.5°	4892.6	2253.7	2090.2	1724.8	1666.5
70°	3564.7	2023.9	1871.3	1533.9	1488.0
72.5°	2540.6	1794.6	1652.6	1354.7	1304.1
75°	1747.5	1540.9	1413.4	1166.2	1119.0
77.5°	1178.9	1281.9	1177.8	995.6	975.9
80°	787.3	1016.5	952.6	843.7	831.5
82.5°	477.7	737.8	751.8	686.1	652.9
85°	260.1	477.7	563.3	513.2	465.6
87.5°	101.8	264.7	388.1	348.6	328.2
90°	4.7	31.6	43.7	57.7	64.2
92.5°	15.8	41.9	67.0	94.9	107.0
95°	49.3	103.3	160.1	212.2	240.1
97.5°	250.3	270.8	291.3	352.7	383.4
100°	513.7	545.3	440.2	465.3	473.7
102.5°	793.8	789.1	575.1	515.5	508.1
105°	933.3	923.1	785.4	559.3	513.7



TEST NUMBER: P826611

CATALOG NUMBER: OHBL-48HE-A-UNV-L830-CD-UPL24

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	751.9	763.1	748.2	726.8	697.0
115°	643.9	650.5	650.5	648.6	643.0
117.5°	550.9	551.8	555.5	554.6	555.5
120°	456.0	466.2	474.6	469.9	464.3
122.5°	382.5	393.6	399.2	397.3	391.8
125°	314.5	331.3	337.8	336.9	334.1
127.5°	266.1	278.2	287.5	288.5	287.5
130°	231.7	239.2	248.5	249.4	250.3
132.5°	205.7	212.2	218.7	222.4	221.5
135°	186.1	189.8	196.3	198.2	200.1
137.5°	170.3	173.1	178.7	181.5	181.5
140°	156.3	160.1	164.7	166.6	167.5
142.5°	144.2	148.0	151.7	153.5	153.5
145°	134.9	138.7	141.4	142.4	143.3
147.5°	126.6	130.3	132.1	134.0	134.0
150°	120.0	121.9	124.7	125.6	126.6
152.5°	113.5	115.4	118.2	119.1	119.1
155°	107.9	109.8	111.7	112.6	112.6
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°	937.1	940.8	868.2	678.4	564.8
110°	864.5	872.9	831.0	759.3	668.1



(END OF REPORT)