

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: P826612

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P826612  
REPORT IS A COMBINATION OF REPORTS P826252 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-MCL-UNV-L830-CD-UPL24  
Description:  
Light Source: -  
Ballast/Driver: -

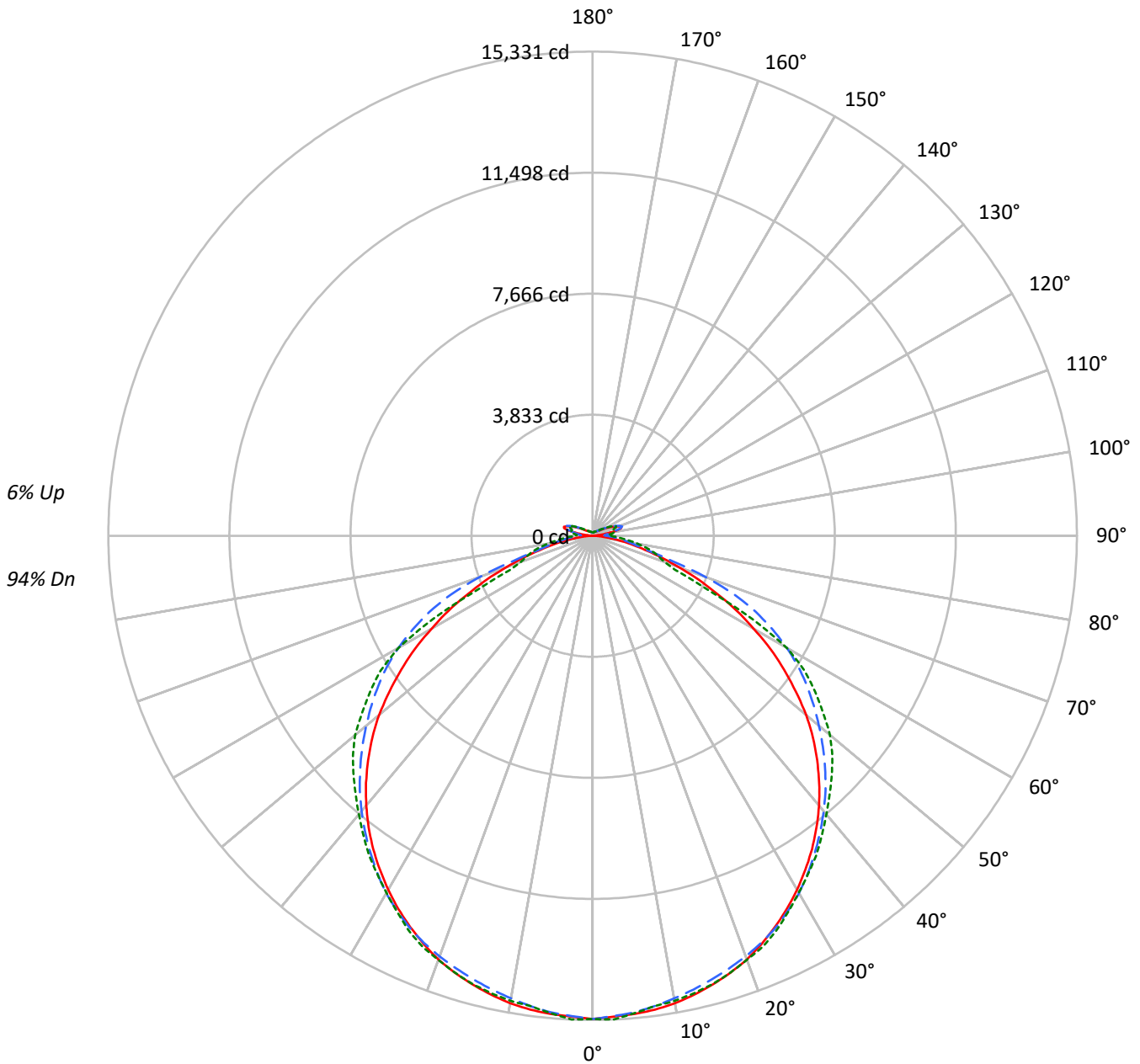
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 45498.0 lumens  
Efficiency: N/A  
Efficacy: 160.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
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<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

TEST NUMBER: P826612

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

### 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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94																			
1	108	103	99	95	104	100	97	93	95	92	89	90	88	85	86	84	82	79																			
2	98	90	84	78	95	88	82	77	83	78	74	79	75	71	75	72	69	67																			
3	90	79	71	65	87	77	70	64	73	67	62	70	65	60	67	62	59	56																			
4	82	70	62	55	79	69	61	54	65	58	53	62	56	52	60	55	50	48																			
5	75	63	54	47	73	61	53	47	59	51	46	56	50	45	54	48	44	42																			
6	70	56	48	41	67	55	47	41	53	46	40	51	44	39	48	43	38	36																			
7	64	51	43	36	62	50	42	36	48	41	35	46	40	35	44	38	34	32																			
8	60	47	38	32	58	46	38	32	44	37	32	42	36	31	41	35	31	29																			
9	56	43	35	29	54	42	34	29	40	33	28	39	33	28	37	32	28	26																			
10	52	39	32	26	51	39	31	26	37	30	26	36	30	25	35	29	25	23																			

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

	0°	45°	90°
0°	24197	24197	24197
5°	23938	23846	23997
10°	23749	23484	23831
15°	23497	23214	23774
20°	23243	23044	23669
25°	22855	22873	23570
30°	22438	22603	23240
35°	21956	22174	23119
40°	21359	21731	22920
45°	20573	21219	22927
50°	19549	20636	22930
55°	18010	20062	22289
60°	16046	19223	20855
65°	13552	17664	13426
70°	10682	13790	9945
75°	7755	8186	10424
80°	5113	6807	10510
85°	2593	6236	11051



TEST NUMBER: P826612

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1442.7	3.2
10°-20°	4136.9	9.1
20°-30°	6318.4	13.9
30°-40°	7666.4	16.8
40°-50°	8035.1	17.7
50°-60°	7281.0	16.0
60°-70°	4881.6	10.7
70°-80°	2192.1	4.8
80°-90°	801.2	1.8
90°-100°	455.2	1.0
100°-110°	862.0	1.9
110°-120°	699.1	1.5
120°-130°	339.5	0.7
130°-140°	175.7	0.4
140°-150°	103.8	0.2
150°-160°	62.8	0.1
160°-170°	33.9	0.1
170°-180°	10.4	0.0
0°-30°	11898.0	26.2
0°-40°	19564.4	43.0
0°-60°	34880.6	76.7
0°-90°	42755.5	94.0
90°-120°	2016.3	4.4
90°-150°	2635.4	5.8
90°-180°	2743.0	6.0
0°-180°	45498.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	15300	15300	15300	15300	15300	
5°	15201	15254	15148	15194	15174	###
15°	14707	14650	14546	14674	14692	4153
25°	13663	13604	13699	13825	13785	6298
35°	12110	12139	12263	12393	12345	7569
45°	10051	10214	10404	10670	10703	7742
55°	7396	7752	8281	8613	8593	6602
65°	4341	5020	5699	4810	3927	4325
75°	1708	2478	1823	1865	1987	1866
85°	294	564	723	874	916	359
90°	7	220	418	527	555	21
95°	52	220	417	524	561	156
105°	942	974	912	712	673	896
115°	662	677	715	730	729	666
125°	330	349	378	383	383	310
135°	206	212	221	234	238	163
145°	155	161	164	167	170	99
155°	130	134	136	137	135	61
165°	117	118	119	119	119	33
175°	108	109	107	106	106	10
180°	106	106	106	106	106	



TEST NUMBER: P826612

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

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	15300.4	15300.4	15300.4	15300.4	15300.4
2.5°	15238.4	15302.6	15223.0	15309.2	15331.4
5°	15200.8	15253.9	15147.7	15194.2	15174.3
7.5°	15132.2	15149.9	15023.8	15061.4	15021.6
10°	15030.4	15021.6	14873.3	14946.4	14955.2
12.5°	14880.0	14853.4	14720.7	14831.4	14833.6
15°	14707.4	14649.9	14546.0	14674.3	14692.0
17.5°	14508.4	14433.1	14364.5	14530.4	14503.9
20°	14276.0	14187.5	14174.3	14355.7	14289.3
22.5°	13988.5	13919.9	13950.9	14123.4	14081.4
25°	13663.3	13603.5	13698.6	13824.8	13785.0
27.5°	13320.3	13285.0	13393.4	13490.7	13413.3
30°	12944.2	12924.3	13068.2	13147.8	13050.5
32.5°	12535.0	12541.7	12678.8	12787.1	12696.5
35°	12110.2	12139.0	12262.9	12393.4	12344.8
37.5°	11643.4	11707.6	11831.5	11979.7	11928.8
40°	11150.1	11243.0	11380.1	11559.4	11512.9
42.5°	10616.9	10734.1	10911.1	11110.3	11105.8
45°	10050.6	10214.2	10404.5	10670.0	10703.2
47.5°	9462.1	9645.7	9886.9	10240.8	10291.7
50°	8822.7	9052.8	9353.7	9778.5	9809.4
52.5°	8110.4	8424.5	8822.7	9229.8	9192.2
55°	7395.8	7752.0	8280.7	8612.6	8592.7
57.5°	6683.4	7083.9	7725.4	7962.1	7959.9
60°	5887.0	6393.6	7094.9	7274.1	7097.1
62.5°	5150.3	5694.5	6422.3	6291.9	5685.7
65°	4340.6	5019.7	5698.9	4809.6	3926.9
67.5°	3621.5	4329.5	4840.6	3294.2	2820.7
70°	2898.1	3679.0	3774.2	2444.6	2411.4
72.5°	2256.6	3088.4	2603.9	2092.8	2199.0
75°	1707.9	2477.8	1823.0	1865.0	1986.6
77.5°	1245.5	1902.6	1418.1	1634.9	1734.5
80°	856.2	1347.3	1157.1	1373.9	1442.5
82.5°	537.6	889.3	926.9	1106.2	1177.0
85°	294.2	564.1	723.4	873.9	915.9
87.5°	121.7	340.7	553.1	674.7	710.1
90°	6.9	219.7	417.6	526.7	555.4
92.5°	18.1	185.6	372.3	473.2	500.8
95°	51.6	220.5	416.7	524.1	560.8
97.5°	254.8	363.8	505.8	611.6	651.1
100°	520.3	622.7	619.4	682.1	697.1
102.5°	802.6	851.1	725.6	696.9	696.1
105°	942.2	974.0	911.5	711.9	673.0



TEST NUMBER: P826612

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

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	767.3	794.0	823.4	821.9	796.6
115°	661.6	677.0	714.6	730.5	729.3
117.5°	568.6	574.0	610.8	623.2	628.6
120°	473.7	486.1	523.3	529.7	526.3
122.5°	400.1	411.3	441.3	450.5	447.0
125°	330.0	349.0	377.6	383.3	382.7
127.5°	283.8	295.9	322.9	330.5	331.7
130°	249.4	259.1	279.4	289.2	290.1
132.5°	225.6	234.3	247.4	260.0	259.1
135°	206.0	212.0	220.7	233.6	237.7
137.5°	192.4	195.2	200.8	214.7	216.8
140°	178.5	182.2	184.6	195.3	198.5
142.5°	164.2	170.1	171.6	180.1	182.3
145°	154.8	160.8	163.6	166.8	169.8
147.5°	148.7	152.4	154.3	156.1	158.4
150°	142.2	144.0	146.8	147.8	148.7
152.5°	135.7	137.5	140.3	141.3	141.3
155°	130.1	134.2	136.0	137.0	134.7
157.5°	125.4	129.5	131.4	132.3	132.3
160°	121.7	124.9	126.7	127.7	127.7
162.5°	120.2	121.2	122.1	123.0	123.0
165°	117.4	118.4	119.3	119.3	119.3
167.5°	114.6	116.8	115.6	116.5	116.5
170°	111.9	112.8	112.8	111.5	111.5
172.5°	110.0	110.9	110.9	108.7	109.6
175°	108.1	109.1	106.8	105.5	105.5
177.5°	110.3	108.1	105.9	103.7	101.4
180°	105.9	105.9	105.9	105.9	105.9



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	948.1	982.9	976.6	808.9	699.8
110°	877.8	908.2	921.7	870.0	783.2



(END OF REPORT)