

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: P826538

Luminaire Tested: **OHBL-24HE-N-UNV-L830-CD-UPL36**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P826538  
REPORT IS A COMBINATION OF REPORTS P826302 AND G3-2310-221-2  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-24HE-N-UNV-L830-CD-UPL36  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

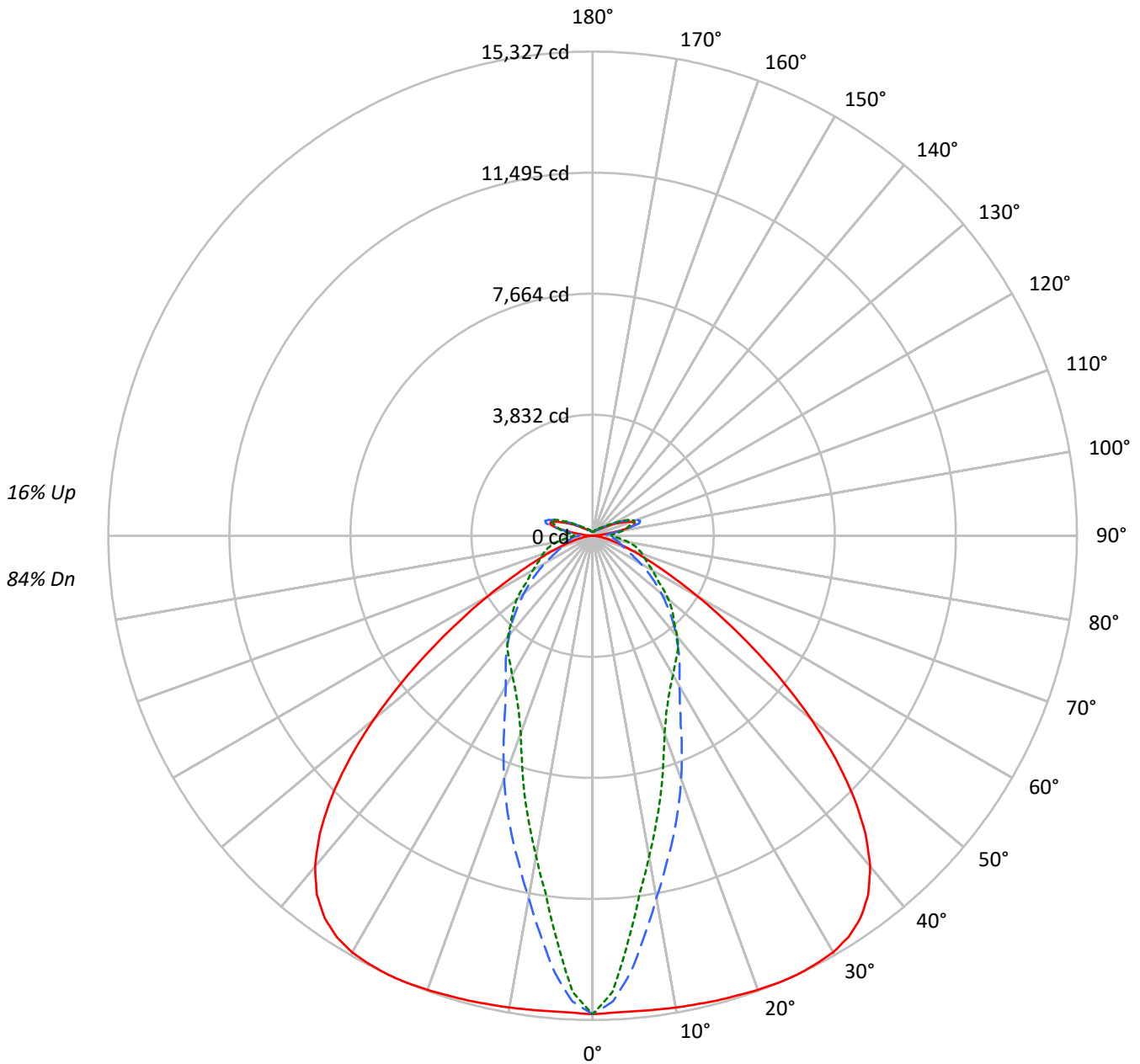
Lumens per Lamp: N/A  
Luminaire Lumens: 25680.6 lumens  
Efficiency: N/A  
Efficacy: 158.7 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 161.8  
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: P826538

CATALOG NUMBER: OHBL-24HE-N-UNV-L830-CD-UPL36

### Luminous Intensity Polar Plot





TEST NUMBER: P826538

CATALOG NUMBER: OHBL-24HE-N-UNV-L830-CD-UPL36

**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	115	115	115	115	111	111	111	111	102	102	102	95	95	95	87	87	87	84																			
1	106	101	98	94	102	98	94	91	91	88	85	84	82	80	78	76	75	72																			
2	97	90	84	79	93	87	81	76	81	76	72	75	72	68	70	67	65	62																			
3	90	80	73	67	86	77	71	65	72	67	62	68	63	59	63	59	56	54																			
4	83	72	64	58	79	70	62	57	65	59	54	61	56	52	57	53	50	47																			
5	77	65	57	51	74	63	56	50	59	53	48	56	50	46	52	48	44	42																			
6	71	59	51	45	68	57	50	44	54	48	43	51	46	41	48	43	40	38																			
7	66	54	46	41	64	53	45	40	50	43	39	47	41	37	44	40	36	34																			
8	62	50	42	37	60	48	41	36	46	40	35	44	38	34	41	36	33	31																			
9	58	46	39	33	56	45	38	33	43	36	32	40	35	31	38	34	30	28																			
10	55	43	35	31	53	42	35	30	40	34	29	38	32	29	36	31	28	26																			

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

	0°	45°	90°
0°	23946	23946	23946
5°	23796	21817	20374
10°	23963	18385	16417
15°	24326	15731	13541
20°	24898	13308	11009
25°	25639	11020	9698
30°	26392	9499	9062
35°	26794	8662	8688
40°	26176	7829	8300
45°	23914	7080	7745
50°	20015	6260	7337
55°	15062	5488	6601
60°	10429	4713	6407
65°	6906	4065	6385
70°	4616	3822	6865
75°	3102	3954	7607
80°	2022	4400	8326
85°	1054	5553	9929



TEST NUMBER: P826538

CATALOG NUMBER: OHBL-24HE-N-UNV-L830-CD-UPL36

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1274.6	5.0
10°-20°	2998.4	11.7
20°-30°	3758.5	14.6
30°-40°	3988.2	15.5
40°-50°	3605.9	14.0
50°-60°	2614.5	10.2
60°-70°	1640.7	6.4
70°-80°	1085.8	4.2
80°-90°	632.7	2.5
90°-100°	559.1	2.2
100°-110°	1368.7	5.3
110°-120°	1088.8	4.2
120°-130°	516.7	2.0
130°-140°	258.7	1.0
140°-150°	150.1	0.6
150°-160°	85.7	0.3
160°-170°	41.0	0.2
170°-180°	12.5	0.0
0°-30°	8031.5	31.3
0°-40°	12019.6	46.8
0°-60°	18240.1	71.0
0°-90°	21599.3	84.1
90°-120°	3016.5	11.7
90°-150°	3942.1	15.4
90°-180°	4081.0	15.9
0°-180°	25680.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	15141	15141	15141	15141	15141	
5°	15111	14724	13859	13216	12883	###
15°	15226	12411	9857	8766	8368	4318
25°	15327	9596	6600	5858	5672	7081
35°	14778	6380	4790	4640	4639	9187
45°	11683	4041	3472	3555	3616	8900
55°	6185	2505	2265	2457	2545	5588
65°	2212	1453	1311	1680	1868	2302
75°	683	782	880	1368	1450	761
85°	120	324	644	896	823	143
90°	7	181	432	593	598	13
95°	64	210	482	642	677	220
105°	1386	1435	1529	1276	1192	1318
115°	974	990	1114	1161	1156	984
125°	489	512	582	595	584	459
135°	294	303	329	352	353	232
145°	220	226	234	248	248	140
155°	181	188	192	196	193	82
165°	140	142	143	144	145	40
175°	128	128	129	129	130	12
180°	127	127	127	127	127	



TEST NUMBER: P826538

CATALOG NUMBER: OHBL-24HE-N-UNV-L830-CD-UPL36

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	15141.4	15141.4	15141.4	15141.4	15141.4
2.5°	15109.8	15023.4	14753.9	14589.5	14451.2
5°	15111.2	14723.5	13859.0	13216.2	12883.3
7.5°	15132.9	14271.1	12713.2	11775.1	11409.1
10°	15166.0	13710.5	11643.9	10643.9	10302.3
12.5°	15190.5	13079.3	10703.0	9675.5	9300.8
15°	15226.5	12410.6	9857.0	8766.1	8368.4
17.5°	15259.6	11780.8	9021.2	7881.3	7438.9
20°	15292.8	11102.1	8185.4	7010.9	6646.3
22.5°	15324.5	10385.9	7369.7	6335.0	6085.7
25°	15327.4	9596.2	6600.2	5858.0	5672.1
27.5°	15290.0	8777.7	5976.2	5458.8	5343.5
30°	15225.1	7983.6	5492.0	5170.6	5088.5
32.5°	15063.6	7173.7	5117.3	4892.5	4844.9
35°	14778.3	6379.7	4790.1	4640.3	4638.8
37.5°	14328.7	5675.0	4435.7	4409.7	4441.4
40°	13664.4	5058.2	4099.8	4169.1	4169.1
42.5°	12778.1	4522.1	3795.8	3866.5	3847.7
45°	11682.8	4040.8	3471.5	3555.2	3615.7
47.5°	10413.3	3617.2	3140.2	3301.5	3385.1
50°	9032.7	3213.6	2837.5	3043.6	3138.7
52.5°	7585.9	2840.3	2542.1	2778.5	2854.8
55°	6185.1	2504.6	2265.3	2457.0	2545.0
57.5°	4917.0	2184.7	1994.5	2176.0	2357.7
60°	3826.1	1909.4	1739.4	1998.7	2180.4
62.5°	2922.5	1664.5	1500.1	1833.1	2014.7
65°	2212.0	1452.6	1311.4	1680.3	1867.6
67.5°	1667.4	1269.6	1164.4	1569.4	1752.3
70°	1252.3	1092.4	1046.2	1500.1	1664.5
72.5°	925.2	929.5	952.5	1439.7	1565.0
75°	683.1	782.5	880.5	1367.5	1449.7
77.5°	488.5	648.5	815.6	1281.1	1309.9
80°	338.6	528.8	747.9	1167.3	1142.8
82.5°	211.8	423.7	687.4	1041.9	974.2
85°	119.6	324.2	644.1	896.3	822.9
87.5°	53.3	242.1	563.5	698.9	652.8
90°	7.4	181.1	431.9	593.0	598.3
92.5°	26.1	168.2	416.1	570.6	590.6
95°	63.5	210.5	482.1	642.2	677.3
97.5°	355.2	457.6	633.2	803.1	842.7
100°	755.9	841.7	878.5	981.2	1014.2
102.5°	1180.7	1255.6	1198.8	1123.4	1107.0
105°	1386.0	1435.0	1529.0	1276.4	1192.0



TEST NUMBER: P826538

CATALOG NUMBER: OHBL-24HE-N-UNV-L830-CD-UPL36

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1140.4	1177.8	1298.7	1342.5	1319.9
115°	974.3	990.1	1114.2	1161.1	1156.2
117.5°	837.1	849.4	959.2	991.5	982.7
120°	706.8	724.2	819.9	837.1	829.7
122.5°	588.7	613.2	691.8	706.9	693.4
125°	489.1	511.6	581.9	595.1	584.4
127.5°	420.6	429.1	489.7	505.2	503.8
130°	363.8	374.2	419.0	441.1	439.2
132.5°	323.4	333.7	369.0	391.9	394.6
135°	293.6	303.0	329.1	352.1	353.1
137.5°	269.4	279.3	296.4	319.8	320.8
140°	248.9	257.4	271.6	292.7	292.7
142.5°	233.6	240.6	251.1	268.3	268.3
145°	220.2	226.2	233.8	248.1	247.6
147.5°	209.0	215.6	221.7	229.8	229.3
150°	198.8	205.8	209.6	215.8	215.2
152.5°	189.5	196.5	200.3	204.1	203.6
155°	181.1	188.2	192.4	195.7	192.8
157.5°	156.3	159.1	161.9	162.8	162.8
160°	150.8	152.6	155.4	155.4	156.3
162.5°	145.2	147.0	148.9	149.8	150.8
165°	140.5	142.4	143.3	144.2	145.2
167.5°	136.8	137.7	138.7	139.6	139.6
170°	133.1	134.0	134.9	134.9	135.9
172.5°	130.3	131.2	132.1	132.1	132.1
175°	128.4	128.4	129.3	129.3	130.3
177.5°	126.6	127.5	127.5	127.5	128.4
180°	126.6	126.6	126.6	126.6	126.6



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	1399.0	1449.3	1575.8	1478.7	1326.9
110°	1293.4	1345.9	1471.5	1471.8	1408.3



(END OF REPORT)