

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: P826532

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P826532  
REPORT IS A COMBINATION OF REPORTS P826300 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-MCL-UNV-L830-CD-UPL36  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

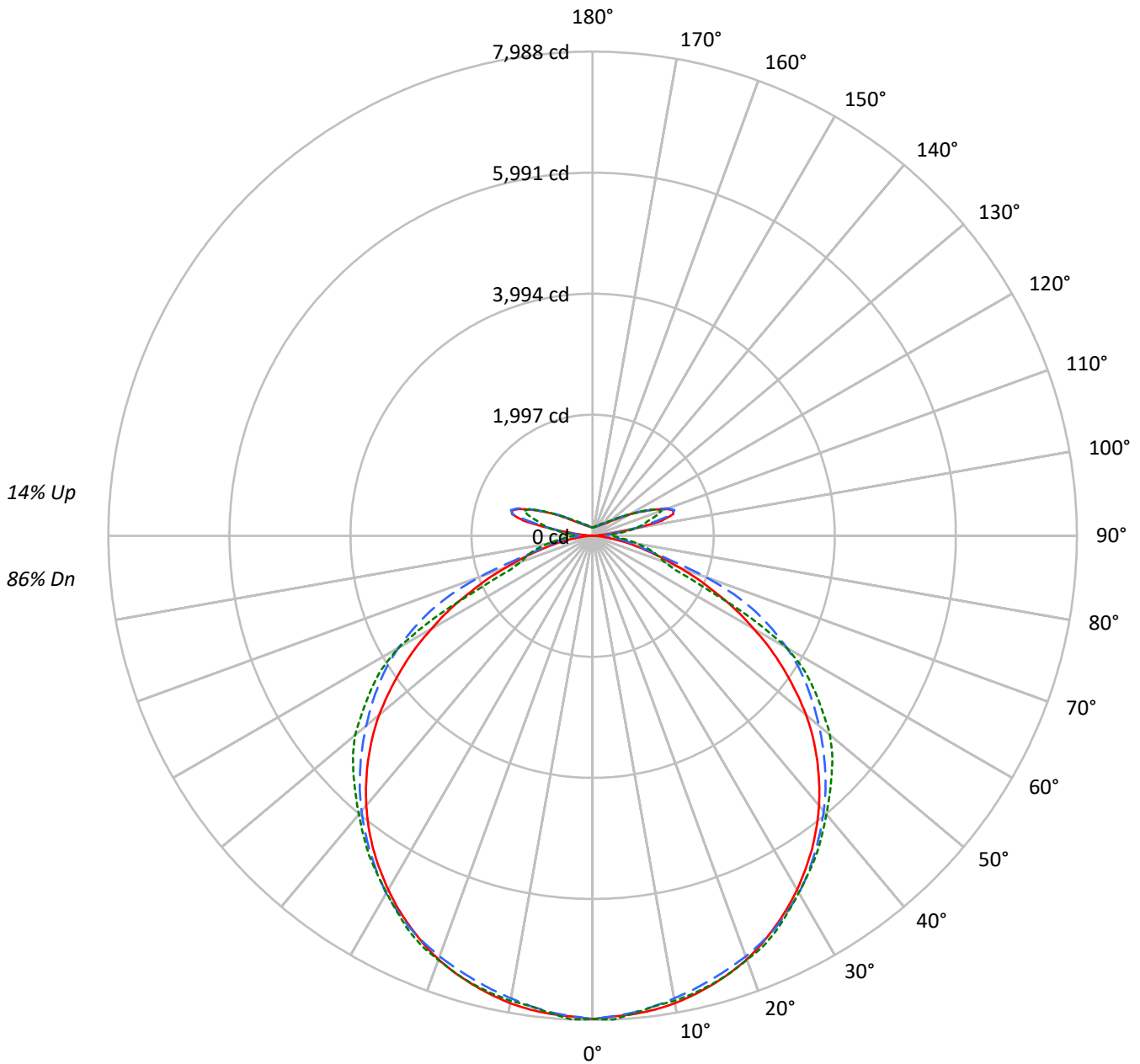
Lumens per Lamp: N/A  
Luminaire Lumens: 25864.9 lumens  
Efficiency: N/A  
Efficacy: 159.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')  
CIE Type: Semi-Direct

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: P826532

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

### Luminous Intensity Polar Plot





TEST NUMBER: P826532

CATALOG NUMBER: OHBL-24HE-MCL-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	116	116	116	116	111	111	111	111	103	103	103	96	96	96	89	89	89	86																			
1	106	101	97	94	102	98	94	91	91	88	85	85	83	80	79	77	76	73																			
2	97	89	82	77	93	86	80	75	80	75	71	75	71	67	70	67	64	61																			
3	88	78	70	64	84	75	68	62	70	65	60	66	61	57	62	58	54	52																			
4	81	69	61	54	77	67	59	53	63	56	51	59	53	49	55	50	47	44																			
5	74	62	53	47	71	60	52	46	56	49	44	53	47	42	50	45	41	38																			
6	68	55	47	41	66	54	46	40	51	44	38	48	42	37	45	40	36	33																			
7	63	50	42	36	61	49	41	35	46	39	34	43	37	33	41	36	32	29																			
8	59	46	37	32	57	44	37	31	42	35	30	40	34	29	37	32	28	26																			
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	29	25	24																			
10	51	39	31	26	49	38	30	25	36	29	25	34	28	24	32	27	23	21																			

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

	0°	45°	90°
0°	12607	12607	12607
5°	12472	12424	12503
10°	12374	12236	12416
15°	12242	12095	12386
20°	12110	12006	12332
25°	11908	11917	12280
30°	11691	11776	12109
35°	11439	11553	12045
40°	11129	11322	11942
45°	10719	11055	11945
50°	10186	10752	11947
55°	9383	10453	11613
60°	8360	10015	10866
65°	7060	9203	6995
70°	5566	7184	5181
75°	4040	4265	5431
80°	2664	3546	5475
85°	1351	3249	5758



TEST NUMBER: P826532

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

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	751.7	2.9
10°-20°	2155.4	8.3
20°-30°	3292.0	12.7
30°-40°	3994.3	15.4
40°-50°	4186.4	16.2
50°-60°	3793.5	14.7
60°-70°	2543.4	9.8
70°-80°	1142.1	4.4
80°-90°	421.6	1.6
90°-100°	380.8	1.5
100°-110°	1218.4	4.7
110°-120°	989.2	3.8
120°-130°	470.5	1.8
130°-140°	241.1	0.9
140°-150°	142.0	0.5
150°-160°	84.4	0.3
160°-170°	44.6	0.2
170°-180°	13.6	0.1
0°-30°	6199.0	24.0
0°-40°	10193.3	39.4
0°-60°	18173.2	70.3
0°-90°	22280.3	86.1
90°-120°	2588.4	10.0
90°-150°	3441.9	13.3
90°-180°	3585.0	13.9
0°-180°	25864.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7972	7972	7972	7972	7972	
5°	7920	7948	7892	7916	7906	753
15°	7663	7633	7579	7645	7655	2164
25°	7119	7088	7137	7203	7182	3281
35°	6310	6324	6389	6457	6432	3944
45°	5236	5322	5421	5559	5576	4034
55°	3853	4039	4314	4487	4477	3440
65°	2262	2615	2969	2506	2046	2253
75°	890	1291	950	972	1035	972
85°	153	294	377	455	477	187
90°	9	144	253	311	324	14
95°	59	176	287	358	377	216
105°	1379	1398	1355	1039	949	1312
115°	968	959	986	1002	995	977
125°	480	498	520	516	507	452
135°	290	297	306	314	316	229
145°	213	219	224	228	230	136
155°	175	179	182	184	183	82
165°	153	155	156	157	158	44
175°	141	141	141	140	141	14
180°	138	138	138	138	138	



TEST NUMBER: P826532

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

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7971.7	7971.7	7971.7	7971.7	7971.7
2.5°	7939.4	7972.8	7931.3	7976.3	7987.8
5°	7919.8	7947.5	7892.1	7916.3	7906.0
7.5°	7884.0	7893.3	7827.6	7847.2	7826.4
10°	7831.1	7826.4	7749.2	7787.3	7791.8
12.5°	7752.6	7738.9	7669.7	7727.3	7728.4
15°	7662.8	7632.8	7578.6	7645.4	7654.7
17.5°	7559.0	7519.8	7484.1	7570.5	7556.8
20°	7438.0	7391.9	7385.0	7479.5	7444.9
22.5°	7288.2	7252.5	7268.6	7358.5	7336.6
25°	7118.8	7087.6	7137.2	7202.9	7182.1
27.5°	6940.1	6921.7	6978.1	7028.9	6988.5
30°	6744.1	6733.8	6808.7	6850.2	6799.5
32.5°	6530.9	6534.4	6605.8	6662.3	6615.0
35°	6309.5	6324.5	6389.1	6457.1	6431.7
37.5°	6066.4	6099.8	6164.4	6241.5	6215.1
40°	5809.4	5857.8	5929.2	6022.6	5998.4
42.5°	5531.5	5592.6	5684.9	5788.6	5786.3
45°	5236.4	5321.8	5420.9	5559.2	5576.4
47.5°	4929.9	5025.6	5151.2	5335.6	5362.1
50°	4596.8	4716.6	4873.4	5094.7	5110.8
52.5°	4225.6	4389.2	4596.8	4808.8	4789.2
55°	3853.2	4038.9	4314.3	4487.2	4476.9
57.5°	3482.1	3690.8	4025.0	4148.3	4147.2
60°	3067.2	3331.1	3696.5	3789.9	3697.7
62.5°	2683.4	2966.9	3346.1	3278.2	2962.3
65°	2261.5	2615.3	2969.2	2505.8	2045.9
67.5°	1886.9	2255.8	2522.0	1716.3	1469.6
70°	1509.9	1916.9	1966.4	1273.7	1256.3
72.5°	1175.7	1609.1	1356.7	1090.4	1145.7
75°	889.8	1291.0	949.8	971.7	1035.1
77.5°	649.0	991.2	738.9	851.8	903.7
80°	446.1	701.9	602.8	715.8	751.5
82.5°	280.1	463.3	483.0	576.3	613.2
85°	153.3	294.0	376.9	455.3	477.2
87.5°	63.4	177.6	288.2	351.6	370.0
90°	8.6	143.6	253.4	311.4	323.8
92.5°	24.4	130.7	230.7	286.4	300.1
95°	58.8	176.4	287.3	358.0	377.4
97.5°	350.4	422.5	436.6	522.9	549.9
100°	750.7	807.2	688.0	712.2	734.3
102.5°	1175.3	1218.7	1016.4	870.6	846.2
105°	1379.1	1398.2	1355.4	1039.0	949.4



TEST NUMBER: P826532

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

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1134.1	1144.9	1157.7	1164.4	1136.9
115°	967.7	959.3	986.3	1002.0	995.0
117.5°	829.0	822.1	846.8	850.0	842.1
120°	698.8	699.9	724.3	716.9	710.7
122.5°	580.6	593.6	612.8	609.2	598.3
125°	479.9	497.8	520.5	515.5	507.4
127.5°	414.0	419.6	441.8	440.6	441.8
130°	357.2	365.8	381.8	388.3	386.5
132.5°	319.3	327.9	340.7	348.1	350.9
135°	289.5	297.2	305.8	314.3	316.5
137.5°	266.5	272.1	277.7	288.1	290.1
140°	246.0	251.6	256.0	264.4	265.5
142.5°	228.1	234.9	238.3	244.6	245.8
145°	213.2	219.1	223.7	227.6	229.8
147.5°	203.2	207.0	211.6	212.5	214.6
150°	193.0	195.8	199.5	201.4	202.3
152.5°	183.7	186.5	190.2	191.1	192.1
155°	175.3	179.2	182.0	183.9	182.8
157.5°	167.9	171.8	174.6	175.5	175.5
160°	162.3	165.3	168.1	168.1	169.0
162.5°	157.8	159.7	161.5	162.5	163.4
165°	153.2	155.0	156.0	156.9	157.8
167.5°	149.4	151.6	151.3	152.2	152.2
170°	145.7	146.7	147.6	146.5	147.4
172.5°	142.9	143.9	144.8	143.7	143.7
175°	141.1	141.1	140.9	139.7	140.6
177.5°	140.4	140.1	139.0	137.8	137.6
180°	138.1	138.1	138.1	138.1	138.1



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	1393.2	1412.1	1413.2	1262.9	<i>1103.3</i>
110°	1287.3	1311.0	1318.4	1275.7	<i>1204.5</i>



(END OF REPORT)