

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: P826531

Luminaire Tested: **OHBL-24HE-MCL-UNV-L830-CD-UPL24**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P826531
REPORT IS A COMBINATION OF REPORTS P826240 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-24HE-MCL-UNV-L830-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

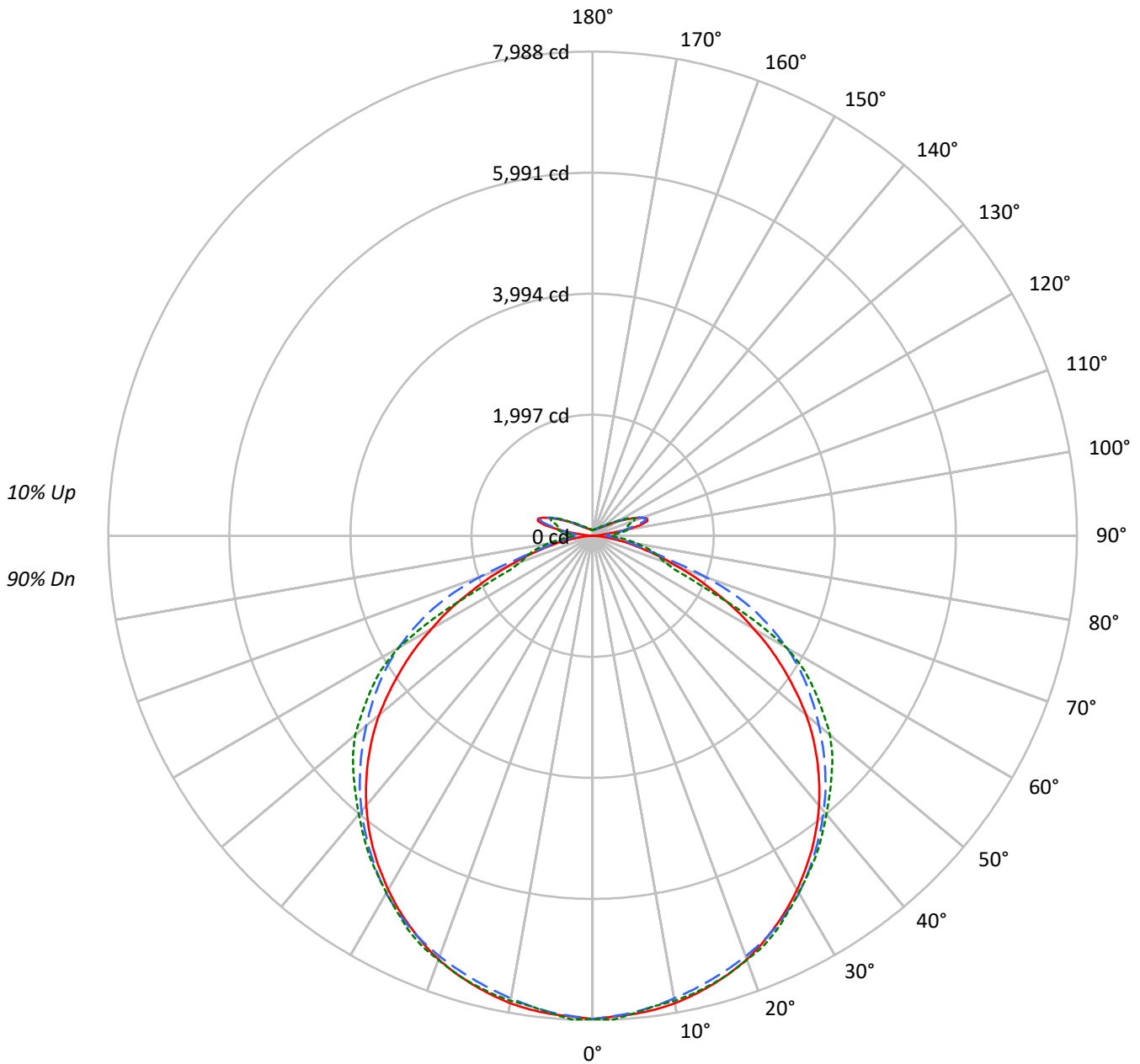
Lumens per Lamp: N/A
Luminaire Lumens: 24783.8 lumens
Efficiency: N/A
Efficacy: 164.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 150.4
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: P826531

CATALOG NUMBER: OHBL-24HE-MCL-UNV-L830-CD-UPL24

Luminous Intensity Polar Plot





TEST NUMBER: P826531

CATALOG NUMBER: OHBL-24HE-MCL-UNV-L830-CD-UPL24

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	117	117	117	117	113	113	113	113	105	105	105	99	99	99	93	93	93	90																			
1	107	102	98	94	103	99	95	92	93	90	87	87	85	83	82	80	79	76																			
2	97	89	83	77	94	87	81	76	82	77	72	77	73	69	72	69	66	64																			
3	89	79	71	64	86	76	69	63	72	66	61	68	63	59	64	60	56	54																			
4	81	70	61	55	78	68	60	54	64	57	52	60	55	50	57	52	48	46																			
5	75	62	53	47	72	60	52	46	57	50	45	54	48	43	51	46	42	40																			
6	69	56	47	41	66	54	46	40	52	45	39	49	43	38	47	41	37	35																			
7	64	51	42	36	62	49	41	36	47	40	35	45	38	34	42	37	33	31																			
8	59	46	38	32	57	45	37	32	43	36	31	41	35	30	39	33	29	27																			
9	55	42	34	29	53	41	34	28	39	33	28	38	31	27	36	30	26	25																			
10	52	39	31	26	50	38	31	26	36	30	25	35	29	25	33	28	24	22																			

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: P826531

CATALOG NUMBER: OHBL-24HE-MCL-UNV-L830-CD-UPL24

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	751.7	3.0
10°-20°	2155.4	8.7
20°-30°	3292.0	13.3
30°-40°	3994.3	16.1
40°-50°	4186.4	16.9
50°-60°	3793.5	15.3
60°-70°	2543.4	10.3
70°-80°	1142.1	4.6
80°-90°	420.2	1.7
90°-100°	340.5	1.4
100°-110°	807.9	3.3
110°-120°	672.0	2.7
120°-130°	324.5	1.3
130°-140°	165.4	0.7
140°-150°	96.9	0.4
150°-160°	57.7	0.2
160°-170°	30.6	0.1
170°-180°	9.4	0.0
0°-30°	6199.0	25.0
0°-40°	10193.3	41.1
0°-60°	18173.2	73.3
0°-90°	22278.9	89.9
90°-120°	1820.4	7.3
90°-150°	2407.2	9.7
90°-180°	2505.0	10.1
0°-180°	24783.8	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°	6	130	238	302	320	13
95°	50	164	294	375	407	155
105°	938	950	851	639	597	891
115°	653	664	684	691	688	658
125°	323	340	358	361	360	303
135°	196	201	209	217	220	155
145°	145	150	153	155	157	93
155°	120	122	124	125	124	56
165°	106	107	108	108	108	30
175°	96	97	96	96	96	9
180°	95	95	95	95	95	



TEST NUMBER: P826531

CATALOG NUMBER: OHBL-24HE-MCL-UNV-L830-CD-UPL24

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°	5.8	129.6	238.5	302.1	320.1
92.5°	16.9	116.8	226.0	292.0	312.2
95°	50.4	164.3	293.8	374.7	407.2
97.5°	252.6	319.2	403.1	487.5	522.9
100°	517.1	585.7	533.5	578.2	590.1
102.5°	798.4	821.4	653.4	610.1	606.1
105°	938.0	949.6	851.1	638.8	596.7



TEST NUMBER: P826531

CATALOG NUMBER: OHBL-24HE-MCL-UNV-L830-CD-UPL24

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	760.0	779.2	787.3	776.4	748.8
115°	653.2	664.3	683.9	691.2	688.0
117.5°	560.1	563.4	584.4	590.3	593.6
120°	465.2	476.5	500.0	501.0	496.6
122.5°	391.7	402.8	421.1	425.0	420.6
125°	322.6	340.5	358.5	361.1	359.5
127.5°	275.4	287.4	306.0	310.3	310.6
130°	240.9	249.5	264.6	270.1	271.1
132.5°	216.0	223.7	233.7	242.0	241.1
135°	196.4	201.4	209.0	216.6	219.7
137.5°	181.8	184.6	190.2	198.8	199.9
140°	167.9	171.6	175.0	181.6	183.6
142.5°	154.6	159.5	162.0	167.4	168.5
145°	145.3	150.2	153.0	155.0	157.2
147.5°	138.1	141.8	143.7	145.5	146.7
150°	131.6	133.4	136.2	137.2	138.1
152.5°	125.1	126.9	129.7	130.6	130.6
155°	119.5	122.5	124.3	125.3	124.1
157.5°	114.8	117.8	119.7	120.6	120.6
160°	111.1	113.2	115.0	115.9	115.9
162.5°	108.5	109.4	110.4	111.3	111.3
165°	105.7	106.6	107.6	107.6	107.6
167.5°	102.9	104.1	103.8	104.8	104.8
170°	100.1	101.1	101.1	100.9	100.9
172.5°	98.3	99.2	99.2	98.1	99.0
175°	96.4	97.3	96.2	95.9	95.9
177.5°	97.6	96.4	95.3	94.1	93.0
180°	95.3	95.3	95.3	95.3	95.3



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	942.8	962.7	924.7	746.4	635.2
110°	871.4	891.3	878.3	816.9	728.1



(END OF REPORT)