

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: P826550

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P826550
REPORT IS A COMBINATION OF REPORTS P826306 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-24SE-MCL-UNV-L830-CD-UPL36
Description:
Light Source: -
Ballast/Driver: -

Summary

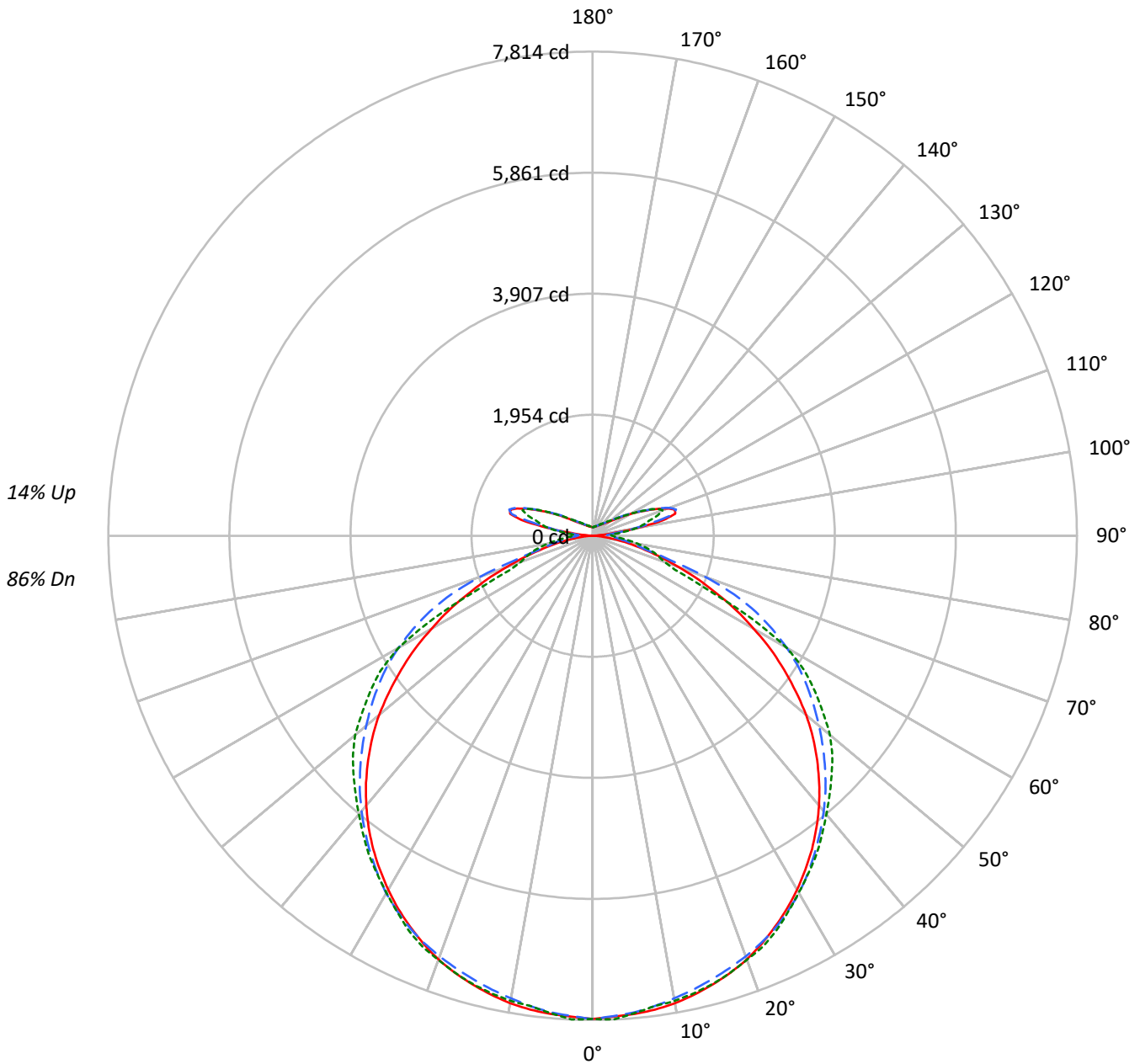
Lumens per Lamp: N/A
Luminaire Lumens: 25374.5 lumens
Efficiency: N/A
Efficacy: 152.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 166.8
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: P826550

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

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	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	82	80	79	77	75	72																			
2	97	89	82	77	93	86	80	75	80	75	71	74	71	67	70	66	64	61																			
3	88	78	70	64	84	75	68	62	70	64	60	66	61	57	62	58	54	51																			
4	81	69	61	54	77	67	59	53	63	56	51	59	53	49	55	50	47	44																			
5	74	62	53	46	71	60	52	46	56	49	44	53	47	42	49	44	40	38																			
6	68	55	47	40	66	54	46	40	51	44	38	48	41	37	45	40	36	33																			
7	63	50	42	36	61	49	41	35	46	39	34	43	37	33	41	36	31	29																			
8	59	46	37	32	56	44	37	31	42	35	30	40	34	29	37	32	28	26																			
9	55	42	34	28	53	41	33	28	38	32	27	36	30	26	34	29	25	23																			
10	51	38	31	26	49	37	30	25	36	29	25	34	28	24	32	27	23	21																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13319	13319	13319
5°	13168	13120	13209
10°	13056	12915	13118
15°	12909	12761	13086
20°	12761	12661	13028
25°	12539	12561	12974
30°	12301	12406	12792
35°	12027	12164	12726
40°	11690	11914	12616
45°	11248	11624	12620
50°	10676	11296	12622
55°	9822	10971	12268
60°	8736	10499	11480
65°	7362	9633	7390
70°	5786	7505	5475
75°	4183	4442	5738
80°	2738	3676	5784
85°	1372	3338	6083



TEST NUMBER: P826550

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	735.3	2.9
10°-20°	2108.5	8.3
20°-30°	3220.3	12.7
30°-40°	3907.4	15.4
40°-50°	4095.3	16.1
50°-60°	3710.9	14.6
60°-70°	2488.0	9.8
70°-80°	1117.2	4.4
80°-90°	412.6	1.6
90°-100°	378.0	1.5
100°-110°	1217.1	4.8
110°-120°	988.6	3.9
120°-130°	470.1	1.9
130°-140°	240.9	0.9
140°-150°	141.8	0.6
150°-160°	84.3	0.3
160°-170°	44.5	0.2
170°-180°	13.6	0.1
0°-30°	6064.1	23.9
0°-40°	9971.5	39.3
0°-60°	17777.7	70.1
0°-90°	21795.5	85.9
90°-120°	2583.7	10.2
90°-150°	3436.5	13.5
90°-180°	3579.0	14.1
0°-180°	25374.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7798	7798	7798	7798	7798	
5°	7747	7774	7720	7744	7734	737
15°	7496	7467	7414	7479	7488	2116
25°	6964	6933	6982	7046	7026	3210
35°	6172	6187	6250	6317	6292	3858
45°	5122	5206	5303	5438	5455	3946
55°	3769	3951	4220	4390	4379	3365
65°	2212	2558	2904	2451	2001	2204
75°	870	1263	929	951	1012	951
85°	150	288	369	445	467	183
90°	9	141	249	306	318	14
95°	59	175	284	354	374	216
105°	1379	1398	1354	1037	948	1312
115°	968	959	986	1001	994	977
125°	480	498	520	515	507	452
135°	289	297	306	314	316	229
145°	213	219	223	227	229	136
155°	175	179	182	184	182	82
165°	153	155	156	157	158	44
175°	141	141	141	140	140	14
180°	138	138	138	138	138	



TEST NUMBER: P826550

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7798.1	7798.1	7798.1	7798.1	7798.1
2.5°	7766.6	7799.3	7758.7	7802.7	7814.0
5°	7747.4	7774.5	7720.4	7744.1	7733.9
7.5°	7712.4	7721.5	7657.3	7676.4	7656.1
10°	7660.6	7656.1	7580.6	7617.8	7622.3
12.5°	7583.9	7570.4	7502.8	7559.1	7560.3
15°	7496.0	7466.7	7413.6	7479.1	7488.1
17.5°	7394.5	7356.1	7321.2	7405.8	7392.2
20°	7276.1	7231.0	7224.3	7316.7	7282.9
22.5°	7129.5	7094.6	7110.4	7198.3	7176.9
25°	6963.8	6933.4	6981.9	7046.1	7025.8
27.5°	6789.1	6771.0	6826.2	6875.9	6836.3
30°	6597.4	6587.2	6660.5	6701.0	6651.4
32.5°	6388.7	6392.1	6462.1	6517.2	6471.1
35°	6172.3	6186.9	6250.1	6316.6	6291.8
37.5°	5934.3	5967.0	6030.2	6105.7	6079.8
40°	5682.9	5730.3	5800.2	5891.4	5867.8
42.5°	5411.2	5470.9	5561.1	5662.6	5660.3
45°	5122.5	5205.9	5302.9	5438.2	5455.1
47.5°	4822.5	4916.1	5039.1	5219.5	5245.4
50°	4496.7	4614.0	4767.3	4983.8	4999.6
52.5°	4133.6	4293.8	4496.7	4704.1	4685.0
55°	3769.4	3951.0	4220.4	4389.6	4379.4
57.5°	3406.3	3610.5	3937.5	4058.1	4056.9
60°	3000.4	3258.6	3616.0	3707.4	3617.2
62.5°	2624.9	2902.3	3273.3	3206.8	2897.8
65°	2212.3	2558.5	2904.5	2451.3	2001.4
67.5°	1845.8	2206.6	2467.1	1678.9	1437.6
70°	1477.1	1875.2	1923.6	1245.9	1229.1
72.5°	1150.1	1574.0	1327.2	1066.7	1120.8
75°	870.4	1262.9	929.1	950.6	1012.5
77.5°	634.8	969.7	722.8	833.2	884.0
80°	436.3	686.7	589.7	700.2	735.1
82.5°	274.0	453.3	472.4	563.8	599.8
85°	150.0	287.5	368.7	445.4	466.8
87.5°	62.0	173.6	281.9	343.9	362.0
90°	8.6	141.4	249.2	306.1	318.2
92.5°	24.4	129.2	227.2	282.1	295.6
95°	58.8	175.1	284.4	354.4	373.8
97.5°	350.3	421.4	434.1	520.0	546.8
100°	750.6	806.2	685.9	709.7	731.8
102.5°	1175.1	1218.0	1014.7	868.6	844.0
105°	1378.9	1397.6	1354.1	1037.2	947.5



TEST NUMBER: P826550

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1133.9	1144.6	1156.9	1163.3	1135.7
115°	967.5	958.9	985.6	1001.1	994.1
117.5°	828.8	821.8	846.2	849.2	841.2
120°	698.6	699.7	723.7	716.2	709.9
122.5°	580.4	593.4	612.3	608.7	597.7
125°	479.7	497.6	520.0	515.0	506.9
127.5°	413.8	419.4	441.5	440.2	441.3
130°	357.1	365.6	381.5	387.9	386.0
132.5°	319.1	327.6	340.4	347.7	350.4
135°	289.3	296.9	305.5	314.0	316.0
137.5°	266.2	271.8	277.4	287.7	289.8
140°	245.8	251.3	255.8	264.1	265.2
142.5°	227.9	234.6	238.1	244.3	245.5
145°	213.0	218.8	223.4	227.3	229.4
147.5°	203.0	206.7	211.3	212.3	214.3
150°	192.7	195.5	199.2	201.1	202.0
152.5°	183.4	186.2	189.9	190.9	191.8
155°	175.0	178.9	181.7	183.6	182.5
157.5°	167.6	171.5	174.3	175.2	175.2
160°	162.0	165.0	167.8	167.8	168.7
162.5°	157.5	159.4	161.3	162.2	163.1
165°	152.9	154.8	155.7	156.6	157.5
167.5°	149.2	151.2	151.0	152.0	152.0
170°	145.4	146.4	147.3	146.2	147.1
172.5°	142.7	143.6	144.5	143.4	143.4
175°	140.8	140.8	140.6	139.5	140.4
177.5°	140.0	139.9	138.7	137.6	137.4
180°	137.8	137.8	137.8	137.8	137.8



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	1393.1	1411.7	1412.0	1261.4	<i>1101.7</i>
110°	1287.2	1310.6	1317.4	1274.5	<i>1203.2</i>



(END OF REPORT)