

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: P828050

Luminaire Tested: **OHBL-24SE-MCL-UNV-L935-CD-UPL36**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828050  
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-L935-CD-UPL36  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

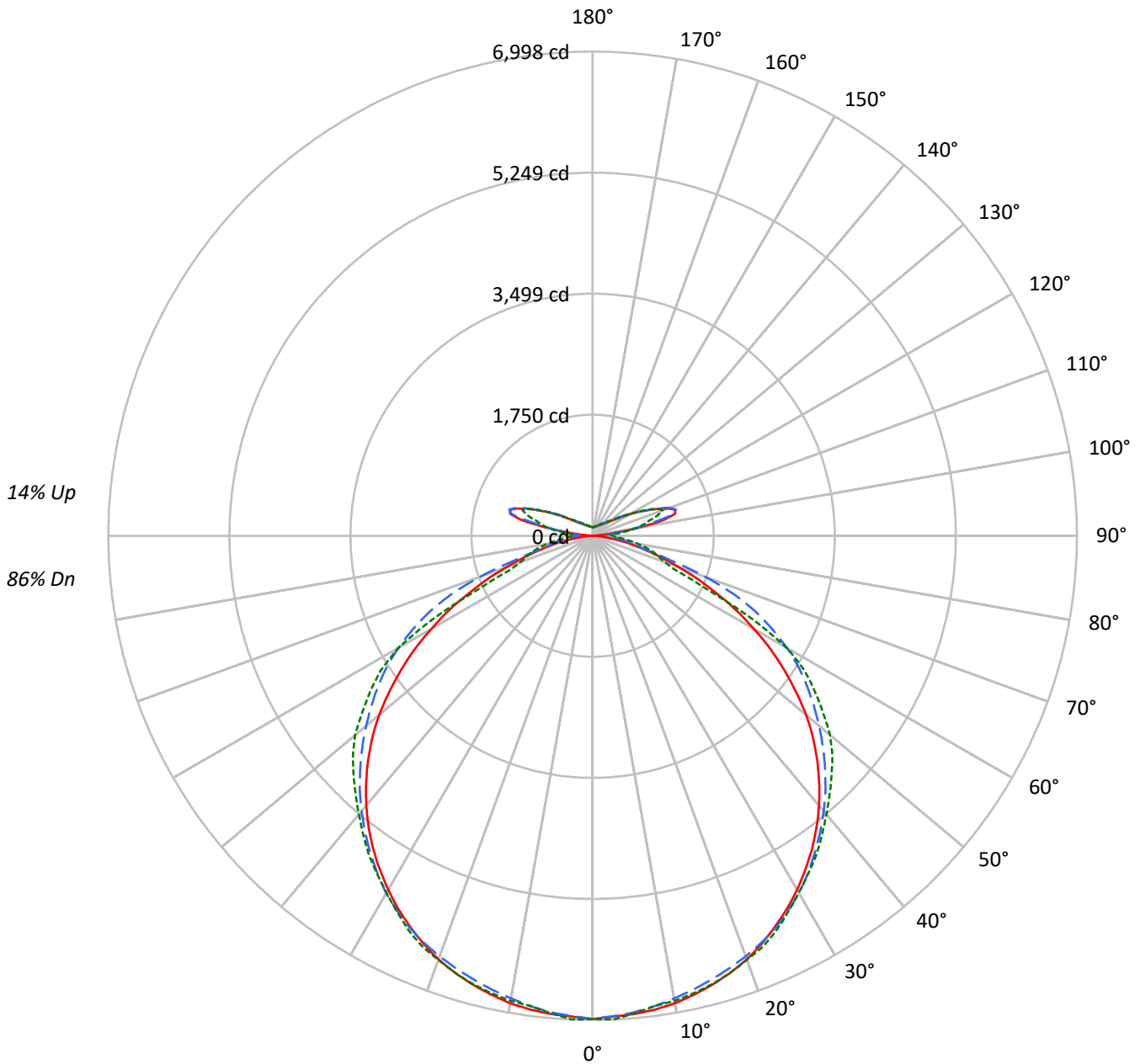
Lumens per Lamp: N/A  
Luminaire Lumens: 22723.5 lumens  
Efficiency: N/A  
Efficacy: 136.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 166.8  
Input Voltage (V): NR  
Input Current (Ain): 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

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				20	
RC	80				70				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				86
1	106	101	97	94	102	98	94	91	91	88	85	85	82	80	79	77	75	72				72
2	97	89	82	77	93	86	80	75	80	75	71	74	71	67	70	66	64	61				61
3	88	78	70	64	84	75	68	62	70	64	60	66	61	57	62	58	54	51				51
4	81	69	61	54	77	67	59	53	63	56	51	59	53	49	55	50	47	44				44
5	74	62	53	46	71	60	52	46	56	49	44	53	47	42	49	44	40	38				38
6	68	55	47	40	66	54	46	40	51	44	38	48	41	37	45	40	36	33				33
7	63	50	42	36	61	49	41	35	46	39	34	43	37	33	41	36	31	29				29
8	59	46	37	32	56	44	37	31	42	35	30	40	34	29	37	32	28	26				26
9	55	42	34	28	53	41	33	28	38	32	27	36	30	26	34	29	25	23				23
10	51	38	31	26	49	37	30	25	36	29	25	34	28	24	32	27	23	21				21

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

	0°	45°	90°
0°	11928	11928	11928
5°	11792	11749	11829
10°	11692	11566	11747
15°	11560	11428	11719
20°	11427	11338	11667
25°	11229	11249	11618
30°	11016	11110	11456
35°	10771	10893	11396
40°	10468	10669	11298
45°	10073	10410	11302
50°	9561	10116	11303
55°	8795	9825	10987
60°	7823	9402	10280
65°	6593	8627	6618
70°	5182	6721	4903
75°	3746	3978	5139
80°	2453	3292	5180
85°	1228	2989	5447



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	658.5	2.9
10°-20°	1888.2	8.3
20°-30°	2883.9	12.7
30°-40°	3499.1	15.4
40°-50°	3667.4	16.1
50°-60°	3323.2	14.6
60°-70°	2228.1	9.8
70°-80°	1000.5	4.4
80°-90°	369.5	1.6
90°-100°	338.6	1.5
100°-110°	1090.0	4.8
110°-120°	885.3	3.9
120°-130°	421.0	1.9
130°-140°	215.7	0.9
140°-150°	127.0	0.6
150°-160°	75.5	0.3
160°-170°	39.9	0.2
170°-180°	12.2	0.1
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0°-30°	5430.5	23.9
0°-40°	8929.7	39.3
0°-60°	15920.3	70.1
0°-90°	19518.4	85.9
90°-120°	2313.8	10.2
90°-150°	3077.5	13.5
90°-180°	3205.0	14.1
0°-180°	22723.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6983	6983	6983	6983	6983	
5°	6938	6962	6914	6935	6926	660
15°	6713	6687	6639	6698	6706	1895
25°	6236	6209	6252	6310	6292	2875
35°	5527	5540	5597	5657	5634	3455
45°	4587	4662	4749	4870	4885	3534
55°	3376	3538	3780	3931	3922	3013
65°	1981	2291	2601	2195	1792	1974
75°	780	1131	832	851	907	852
85°	134	258	330	399	418	164
90°	8	127	223	274	285	13
95°	53	157	255	317	335	194
105°	1235	1252	1213	929	848	1175
115°	866	859	883	896	890	875
125°	430	446	466	461	454	405
135°	259	266	274	281	283	205
145°	191	196	200	204	205	122
155°	157	160	163	164	163	73
165°	137	139	139	140	141	39
175°	126	126	126	125	126	12
180°	123	123	123	123	123	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6983.4	6983.4	6983.4	6983.4	6983.4
2.5°	6955.2	6984.4	6948.1	6987.5	6997.6
5°	6938.0	6962.3	6913.8	6935.0	6925.9
7.5°	6906.7	6914.8	6857.3	6874.4	6856.2
10°	6860.2	6856.2	6788.6	6821.9	6825.9
12.5°	6791.6	6779.5	6718.9	6769.3	6770.4
15°	6712.8	6686.6	6639.1	6697.7	6705.8
17.5°	6621.9	6587.6	6556.3	6632.1	6619.9
20°	6515.9	6475.5	6469.5	6552.2	6522.0
22.5°	6384.7	6353.3	6367.5	6446.2	6427.1
25°	6236.2	6209.0	6252.4	6309.9	6291.8
27.5°	6079.8	6063.6	6113.0	6157.5	6122.1
30°	5908.1	5899.0	5964.6	6000.9	5956.5
32.5°	5721.2	5724.3	5786.9	5836.3	5795.0
35°	5527.4	5540.5	5597.1	5656.7	5634.4
37.5°	5314.3	5343.6	5400.2	5467.8	5444.6
40°	5089.2	5131.6	5194.2	5275.9	5254.8
42.5°	4845.8	4899.3	4980.1	5071.0	5068.9
45°	4587.3	4662.0	4748.8	4870.0	4885.2
47.5°	4318.7	4402.5	4512.6	4674.2	4697.3
50°	4026.9	4131.9	4269.3	4463.1	4477.2
52.5°	3701.8	3845.2	4026.9	4212.7	4195.5
55°	3375.6	3538.2	3779.5	3931.0	3921.8
57.5°	3050.4	3233.2	3526.1	3634.1	3633.1
60°	2686.9	2918.2	3238.2	3320.1	3239.2
62.5°	2350.7	2599.1	2931.3	2871.8	2595.1
65°	1981.2	2291.2	2601.1	2195.2	1792.3
67.5°	1653.0	1976.1	2209.3	1503.5	1287.4
70°	1322.8	1679.2	1722.7	1115.8	1100.7
72.5°	1029.9	1409.6	1188.5	955.2	1003.7
75°	779.5	1130.9	832.0	851.2	906.8
77.5°	568.5	868.4	647.3	746.2	791.7
80°	390.8	614.9	528.1	627.1	658.3
82.5°	245.3	405.9	423.1	504.9	537.2
85°	134.3	257.5	330.2	398.8	418.0
87.5°	55.5	155.5	252.4	308.0	324.2
90°	7.7	126.7	223.2	274.1	285.0
92.5°	21.8	115.7	203.5	252.7	264.8
95°	52.7	156.8	254.7	317.3	334.8
97.5°	313.7	377.4	388.8	465.7	489.7
100°	672.2	722.0	614.2	635.6	655.3
102.5°	1052.3	1090.8	908.7	777.8	755.8
105°	1234.8	1251.6	1212.6	928.8	848.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1015.4	1025.0	1036.0	1041.8	1017.1
115°	866.4	858.8	882.6	896.5	890.2
117.5°	742.3	735.9	757.8	760.5	753.3
120°	625.6	626.6	648.1	641.4	635.8
122.5°	519.8	531.4	548.3	545.1	535.2
125°	429.6	445.6	465.7	461.2	453.9
127.5°	370.6	375.6	395.3	394.2	395.2
130°	319.8	327.4	341.7	347.3	345.7
132.5°	285.8	293.4	304.8	311.3	313.8
135°	259.1	265.9	273.6	281.2	283.0
137.5°	238.4	243.4	248.4	257.7	259.5
140°	220.1	225.1	229.1	236.5	237.5
142.5°	204.1	210.1	213.2	218.8	219.8
145°	190.8	195.9	200.1	203.6	205.4
147.5°	181.8	185.1	189.2	190.1	191.9
150°	172.6	175.1	178.4	180.1	180.9
152.5°	164.2	166.8	170.1	170.9	171.8
155°	156.8	160.3	162.8	164.4	163.4
157.5°	150.1	153.6	156.1	156.9	156.9
160°	145.1	147.8	150.3	150.3	151.1
162.5°	141.1	142.8	144.4	145.3	146.1
165°	136.9	138.6	139.4	140.3	141.1
167.5°	133.6	135.4	135.3	136.1	136.1
170°	130.3	131.1	131.9	130.9	131.8
172.5°	127.8	128.6	129.4	128.4	128.4
175°	126.1	126.1	125.9	124.9	125.8
177.5°	125.4	125.3	124.2	123.3	123.1
180°	123.4	123.4	123.4	123.4	123.4



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	1247.6	1264.2	1264.5	1129.6	986.6
110°	1152.8	1173.7	1179.8	1141.3	1077.5



(END OF REPORT)