

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: P828350

Luminaire Tested: **OHBL-24SE-MCL-UNV-L940-CD-UPL36**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828350  
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-L940-CD-UPL36  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

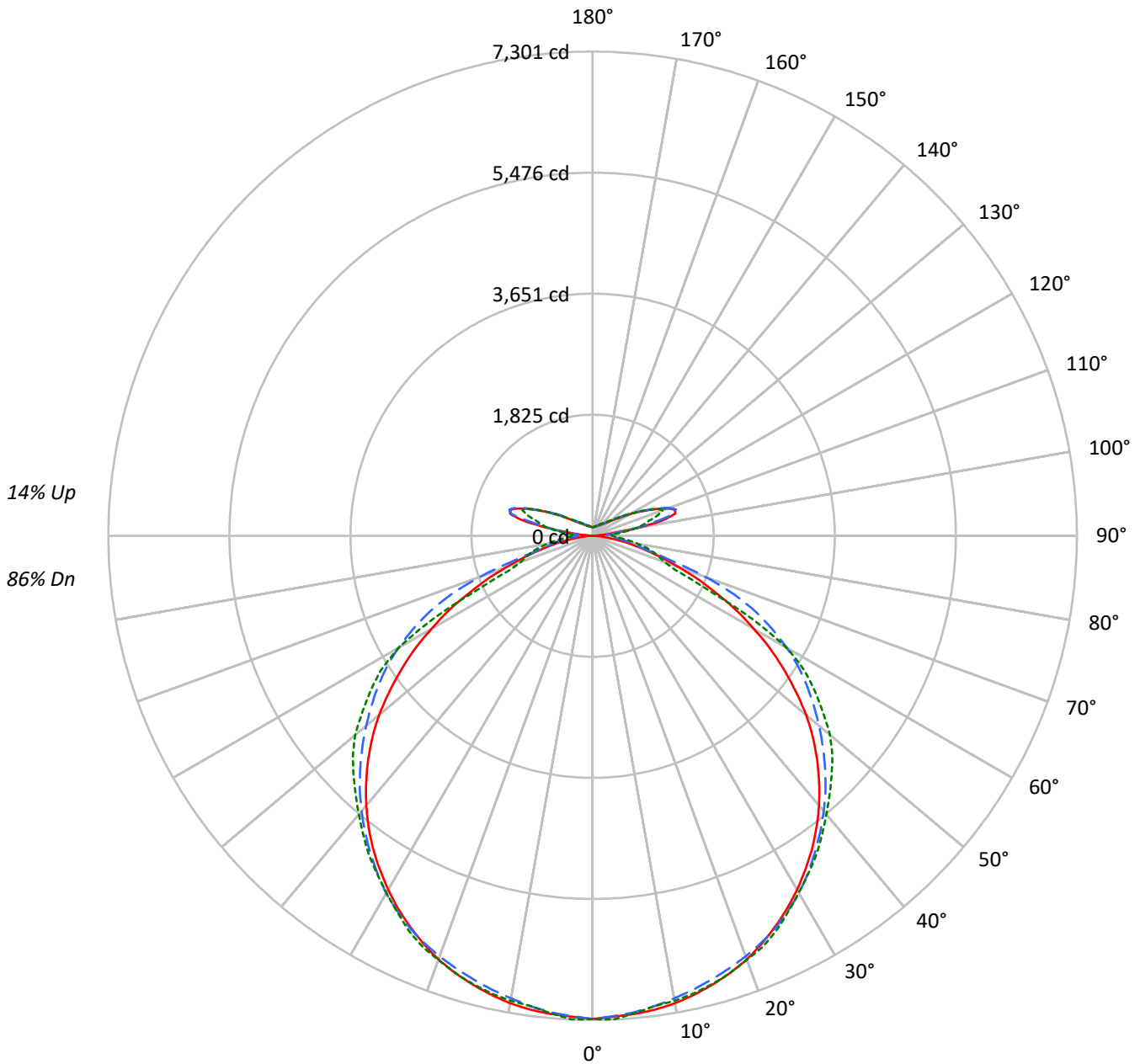
Lumens per Lamp: N/A  
Luminaire Lumens: 23708.1 lumens  
Efficiency: N/A  
Efficacy: 142.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 166.8  
Input Voltage (V): NR  
Input Current (A<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

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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°	12444	12444	12444
5°	12303	12258	12341
10°	12198	12067	12256
15°	12061	11923	12227
20°	11923	11830	12173
25°	11715	11736	12122
30°	11493	11591	11952
35°	11237	11365	11890
40°	10922	11131	11788
45°	10509	10861	11792
50°	9975	10554	11793
55°	9177	10251	11463
60°	8162	9810	10726
65°	6878	9001	6905
70°	5406	7012	5115
75°	3908	4150	5361
80°	2559	3435	5405
85°	1282	3119	5683



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	687.0	2.9
10°-20°	1970.0	8.3
20°-30°	3008.8	12.7
30°-40°	3650.7	15.4
40°-50°	3826.3	16.1
50°-60°	3467.2	14.6
60°-70°	2324.6	9.8
70°-80°	1043.9	4.4
80°-90°	385.5	1.6
90°-100°	353.2	1.5
100°-110°	1137.2	4.8
110°-120°	923.6	3.9
120°-130°	439.2	1.9
130°-140°	225.1	0.9
140°-150°	132.5	0.6
150°-160°	78.8	0.3
160°-170°	41.6	0.2
170°-180°	12.7	0.1
0°-30°	5665.9	23.9
0°-40°	9316.6	39.3
0°-60°	16610.2	70.1
0°-90°	20364.2	85.9
90°-120°	2414.0	10.2
90°-150°	3210.8	13.5
90°-180°	3344.0	14.1
0°-180°	23708.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7286	7286	7286	7286	7286	
5°	7239	7264	7213	7236	7226	688
15°	7004	6976	6927	6988	6996	1977
25°	6506	6478	6523	6583	6564	2999
35°	5767	5781	5840	5902	5879	3604
45°	4786	4864	4955	5081	5097	3687
55°	3522	3692	3943	4101	4092	3144
65°	2067	2390	2714	2290	1870	2059
75°	813	1180	868	888	946	889
85°	140	269	344	416	436	171
90°	8	132	233	286	297	13
95°	55	164	266	331	349	202
105°	1288	1306	1265	969	885	1225
115°	904	896	921	935	929	913
125°	448	465	486	481	474	422
135°	270	277	285	293	295	214
145°	199	204	209	212	214	127
155°	164	167	170	172	170	76
165°	143	145	146	146	147	41
175°	132	132	131	130	131	13
180°	129	129	129	129	129	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7286.0	7286.0	7286.0	7286.0	7286.0
2.5°	7256.6	7287.1	7249.2	7290.3	7300.8
5°	7238.6	7263.9	7213.3	7235.5	7226.0
7.5°	7206.0	7214.4	7154.4	7172.3	7153.4
10°	7157.5	7153.4	7082.8	7117.5	7121.7
12.5°	7085.9	7073.3	7010.1	7062.7	7063.8
15°	7003.7	6976.3	6926.8	6987.9	6996.3
17.5°	6908.9	6873.0	6840.4	6919.5	6906.8
20°	6798.3	6756.1	6749.8	6836.2	6804.6
22.5°	6661.3	6628.6	6643.4	6725.6	6705.6
25°	6506.5	6478.1	6523.4	6583.3	6564.4
27.5°	6343.2	6326.3	6377.9	6424.3	6387.4
30°	6164.1	6154.6	6223.0	6261.0	6214.6
32.5°	5969.2	5972.3	6037.7	6089.2	6046.1
35°	5766.9	5780.6	5839.6	5901.8	5878.6
37.5°	5544.6	5575.1	5634.2	5704.8	5680.5
40°	5309.7	5354.0	5419.2	5504.5	5482.5
42.5°	5055.8	5111.6	5195.9	5290.7	5288.6
45°	4786.1	4864.0	4954.6	5081.0	5096.9
47.5°	4505.8	4593.3	4708.1	4876.7	4900.9
50°	4201.4	4311.0	4454.3	4656.5	4671.3
52.5°	3862.2	4011.8	4201.4	4395.2	4377.3
55°	3521.9	3691.5	3943.3	4101.3	4091.8
57.5°	3182.6	3373.4	3678.9	3791.6	3790.5
60°	2803.3	3044.6	3378.6	3464.0	3379.6
62.5°	2452.5	2711.7	3058.4	2996.2	2707.5
65°	2067.0	2390.5	2713.8	2290.3	1870.0
67.5°	1724.6	2061.7	2305.1	1568.7	1343.2
70°	1380.1	1752.0	1797.3	1164.1	1148.4
72.5°	1074.5	1470.7	1240.0	996.6	1047.2
75°	813.3	1179.9	868.1	888.1	946.0
77.5°	593.1	906.0	675.3	778.5	826.0
80°	407.7	641.6	551.0	654.3	686.9
82.5°	256.0	423.5	441.4	526.8	560.4
85°	140.2	268.7	344.5	416.1	436.1
87.5°	57.9	162.2	263.4	321.3	338.2
90°	8.0	132.2	232.8	286.0	297.4
92.5°	22.8	120.7	212.3	263.6	276.2
95°	54.9	163.6	265.7	331.1	349.3
97.5°	327.3	393.8	405.6	485.8	510.9
100°	701.3	753.3	640.9	663.1	683.7
102.5°	1097.9	1138.0	948.0	811.5	788.6
105°	1288.3	1305.8	1265.1	969.1	885.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1059.4	1069.4	1080.9	1086.9	1061.2
115°	904.0	896.0	920.8	935.3	928.8
117.5°	774.4	767.8	790.6	793.5	786.0
120°	652.7	653.7	676.2	669.2	663.3
122.5°	542.3	554.4	572.1	568.7	558.4
125°	448.2	464.9	485.8	481.2	473.6
127.5°	386.6	391.9	412.5	411.2	412.3
130°	333.6	341.6	356.5	362.4	360.6
132.5°	298.1	306.1	318.0	324.8	327.4
135°	270.3	277.4	285.4	293.4	295.3
137.5°	248.7	254.0	259.2	268.8	270.7
140°	229.6	234.8	239.0	246.7	247.8
142.5°	212.9	219.2	222.5	228.2	229.4
145°	199.0	204.4	208.8	212.4	214.3
147.5°	189.6	193.1	197.5	198.3	200.2
150°	180.1	182.7	186.1	187.9	188.8
152.5°	171.4	174.0	177.5	178.3	179.2
155°	163.5	167.2	169.8	171.5	170.5
157.5°	156.6	160.2	162.8	163.7	163.7
160°	151.4	154.2	156.8	156.8	157.6
162.5°	147.2	148.9	150.7	151.5	152.4
165°	142.8	144.6	145.5	146.3	147.2
167.5°	139.4	141.3	141.1	142.0	142.0
170°	135.9	136.8	137.6	136.6	137.5
172.5°	133.3	134.2	135.0	134.0	134.0
175°	131.5	131.5	131.4	130.3	131.2
177.5°	130.9	130.7	129.6	128.6	128.4
180°	128.8	128.8	128.8	128.8	128.8



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	1301.6	1318.9	1319.3	1178.5	1029.3
110°	1202.7	1224.5	1230.9	1190.8	1124.2



(END OF REPORT)