

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: P828649

Luminaire Tested: **OHBL-24SE-MCL-UNV-L950-CD-UPL24**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828649  
REPORT IS A COMBINATION OF REPORTS P826246 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-24SE-MCL-UNV-L950-CD-UPL24  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

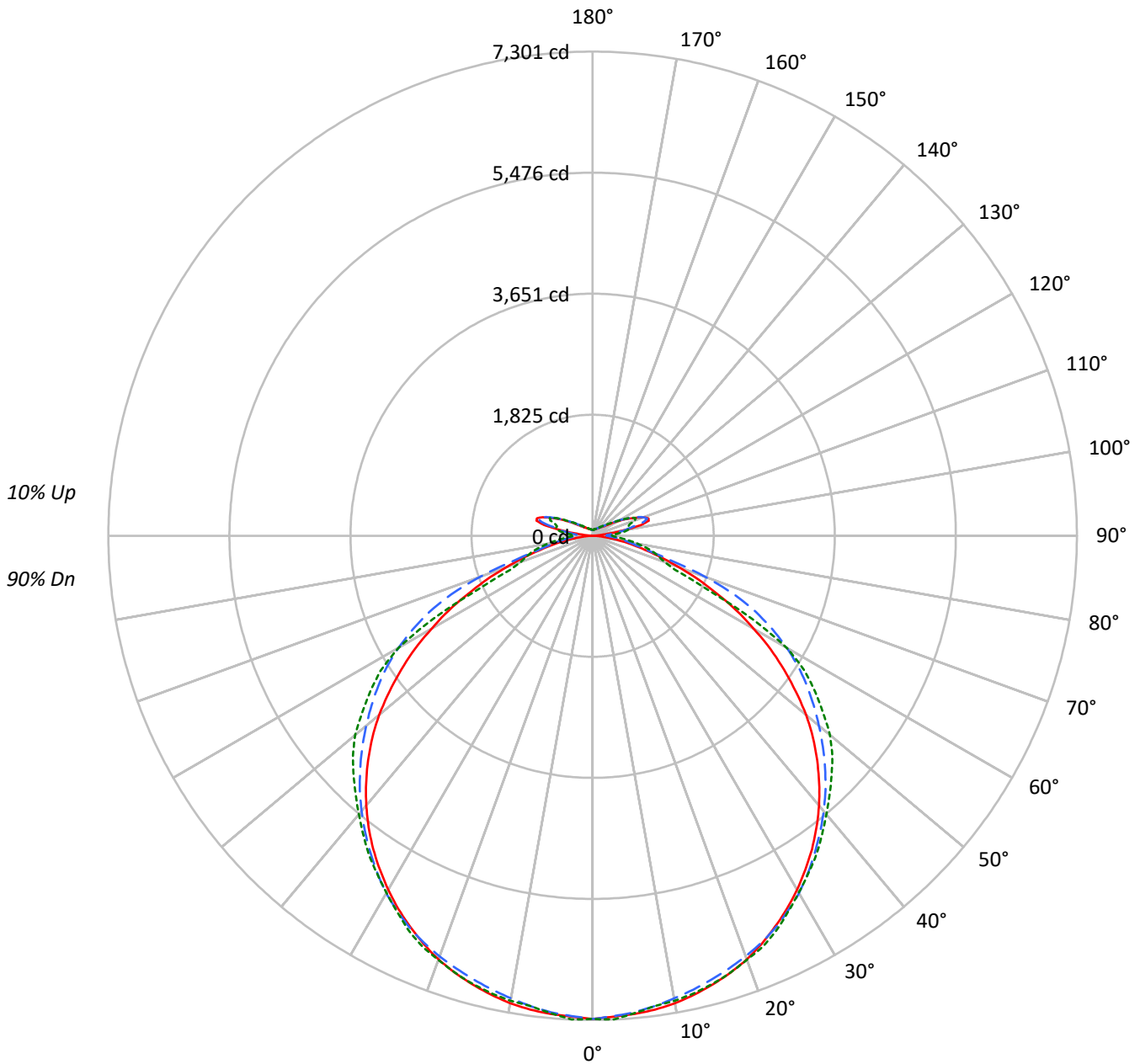
Lumens per Lamp: N/A  
Luminaire Lumens: 22698.0 lumens  
Efficiency: N/A  
Efficacy: 146.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 155.4  
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				
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	117	117	117	117	113	113	113	113	105	105	105	99	99	99	93	93	93	93	93	93	90
1	107	102	98	94	103	99	95	92	93	90	87	87	85	83	82	80	78	78	78	78	76
2	97	89	83	77	94	87	81	76	81	77	72	77	73	69	72	69	66	66	66	66	63
3	89	79	71	64	85	76	69	63	72	66	61	68	63	58	64	60	56	56	56	56	54
4	81	70	61	55	78	68	60	54	64	57	52	60	55	50	57	52	48	48	48	48	46
5	75	62	53	47	72	60	52	46	57	50	45	54	48	43	51	46	42	42	42	42	40
6	69	56	47	41	66	54	46	40	52	44	39	49	43	38	46	41	37	37	37	37	35
7	64	51	42	36	62	49	41	36	47	40	35	45	38	34	42	37	33	33	33	33	31
8	59	46	38	32	57	45	37	32	43	36	31	41	35	30	39	33	29	29	29	29	27
9	55	42	34	29	53	41	34	28	39	33	28	38	31	27	36	30	26	26	26	26	24
10	52	39	31	26	50	38	31	26	36	30	25	35	29	25	33	28	24	24	24	24	22

**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	3.0
10°-20°	1970.0	8.7
20°-30°	3008.8	13.3
30°-40°	3650.7	16.1
40°-50°	3826.3	16.9
50°-60°	3467.2	15.3
60°-70°	2324.6	10.2
70°-80°	1043.9	4.6
80°-90°	384.2	1.7
90°-100°	315.6	1.4
100°-110°	753.6	3.3
110°-120°	627.3	2.8
120°-130°	302.9	1.3
130°-140°	154.3	0.7
140°-150°	90.4	0.4
150°-160°	53.8	0.2
160°-170°	28.5	0.1
170°-180°	8.7	0.0
0°-30°	5665.9	25.0
0°-40°	9316.6	41.0
0°-60°	16610.2	73.2
0°-90°	20362.8	89.7
90°-120°	1696.5	7.5
90°-150°	2244.1	9.9
90°-180°	2335.0	10.3
0°-180°	22698.0	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°	5	119	219	277	294	12
95°	47	152	272	347	377	145
105°	876	887	794	595	556	832
115°	610	620	638	645	642	615
125°	301	318	335	337	335	283
135°	183	188	195	202	205	145
145°	136	140	143	145	146	86
155°	111	114	116	117	116	52
165°	98	99	100	100	100	28
175°	90	91	90	90	90	9
180°	89	89	89	89	89	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7286.0	7286.0	7286.0	7286.0	<i>7286.0</i>
2.5°	<i>7256.6</i>	<i>7287.1</i>	<i>7249.2</i>	<i>7290.3</i>	<i>7300.8</i>
5°	7238.6	7263.9	7213.3	7235.5	<i>7226.0</i>
7.5°	7206.0	7214.4	7154.4	7172.3	<i>7153.4</i>
10°	7157.5	7153.4	7082.8	7117.5	<i>7121.7</i>
12.5°	7085.9	7073.3	7010.1	7062.7	<i>7063.8</i>
15°	7003.7	6976.3	6926.8	6987.9	<i>6996.3</i>
17.5°	6908.9	6873.0	6840.4	6919.5	<i>6906.8</i>
20°	6798.3	6756.1	6749.8	6836.2	<i>6804.6</i>
22.5°	6661.3	6628.6	6643.4	6725.6	<i>6705.6</i>
25°	6506.5	6478.1	6523.4	6583.3	<i>6564.4</i>
27.5°	6343.2	6326.3	6377.9	6424.3	<i>6387.4</i>
30°	6164.1	6154.6	6223.0	6261.0	<i>6214.6</i>
32.5°	5969.2	5972.3	6037.7	6089.2	<i>6046.1</i>
35°	5766.9	5780.6	5839.6	5901.8	<i>5878.6</i>
37.5°	5544.6	5575.1	5634.2	5704.8	<i>5680.5</i>
40°	5309.7	5354.0	5419.2	5504.5	<i>5482.5</i>
42.5°	5055.8	5111.6	5195.9	5290.7	<i>5288.6</i>
45°	4786.1	4864.0	4954.6	5081.0	<i>5096.9</i>
47.5°	4505.8	4593.3	4708.1	4876.7	<i>4900.9</i>
50°	4201.4	4311.0	4454.3	4656.5	<i>4671.3</i>
52.5°	3862.2	4011.8	4201.4	4395.2	<i>4377.3</i>
55°	3521.9	3691.5	3943.3	4101.3	<i>4091.8</i>
57.5°	3182.6	3373.4	3678.9	3791.6	<i>3790.5</i>
60°	2803.3	3044.6	3378.6	3464.0	<i>3379.6</i>
62.5°	2452.5	2711.7	3058.4	2996.2	<i>2707.5</i>
65°	2067.0	2390.5	2713.8	2290.3	<i>1870.0</i>
67.5°	1724.6	2061.7	2305.1	1568.7	<i>1343.2</i>
70°	1380.1	1752.0	1797.3	1164.1	<i>1148.4</i>
72.5°	1074.5	1470.7	1240.0	996.6	<i>1047.2</i>
75°	813.3	1179.9	868.1	888.1	<i>946.0</i>
77.5°	593.1	906.0	675.3	778.5	<i>826.0</i>
80°	407.7	641.6	551.0	654.3	<i>686.9</i>
82.5°	256.0	423.5	441.4	526.8	<i>560.4</i>
85°	140.2	268.7	344.5	416.1	<i>436.1</i>
87.5°	57.9	162.2	263.4	321.3	<i>338.2</i>
90°	5.4	119.1	218.9	277.3	<i>293.9</i>
92.5°	15.8	107.6	208.0	268.8	<i>287.5</i>
95°	47.1	152.3	271.8	346.7	<i>377.1</i>
97.5°	236.0	297.3	374.3	452.8	<i>485.7</i>
100°	483.1	546.4	496.5	537.9	<i>549.0</i>
102.5°	745.8	766.8	609.0	568.1	<i>564.3</i>
105°	876.2	886.7	793.9	595.2	<i>555.7</i>



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	709.9	727.7	734.9	724.3	698.6
115°	610.1	620.3	638.3	645.0	641.9
117.5°	523.1	526.1	545.4	550.9	553.8
120°	434.5	445.1	466.6	467.5	463.3
122.5°	365.8	376.2	393.0	396.6	392.4
125°	301.3	318.0	334.6	336.8	335.3
127.5°	257.1	268.4	285.5	289.5	289.7
130°	224.9	232.9	246.9	252.0	252.8
132.5°	201.6	208.8	218.1	225.7	224.8
135°	183.4	187.9	195.0	202.1	204.8
137.5°	169.6	172.2	177.5	185.4	186.4
140°	156.6	160.1	163.4	169.4	171.3
142.5°	144.2	148.8	151.2	156.1	157.2
145°	135.5	140.1	142.7	144.6	146.5
147.5°	128.8	132.2	134.0	135.7	136.8
150°	122.7	124.4	127.0	127.9	128.8
152.5°	116.6	118.3	120.9	121.8	121.8
155°	111.4	114.2	115.9	116.8	115.7
157.5°	107.0	109.8	111.5	112.4	112.4
160°	103.6	105.5	107.2	108.1	108.1
162.5°	101.1	102.0	102.9	103.7	103.7
165°	98.5	99.4	100.2	100.2	100.2
167.5°	95.9	96.9	96.8	97.6	97.6
170°	93.3	94.2	94.2	94.0	94.0
172.5°	91.6	92.4	92.4	91.4	92.2
175°	89.8	90.7	89.6	89.5	89.5
177.5°	90.9	89.8	88.8	87.7	86.7
180°	88.8	88.8	88.8	88.8	88.8



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	880.8	899.0	862.8	696.0	592.0
110°	814.1	832.4	819.6	762.2	679.0



(END OF REPORT)