

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: P830113

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830113
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)
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
Description: 24000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

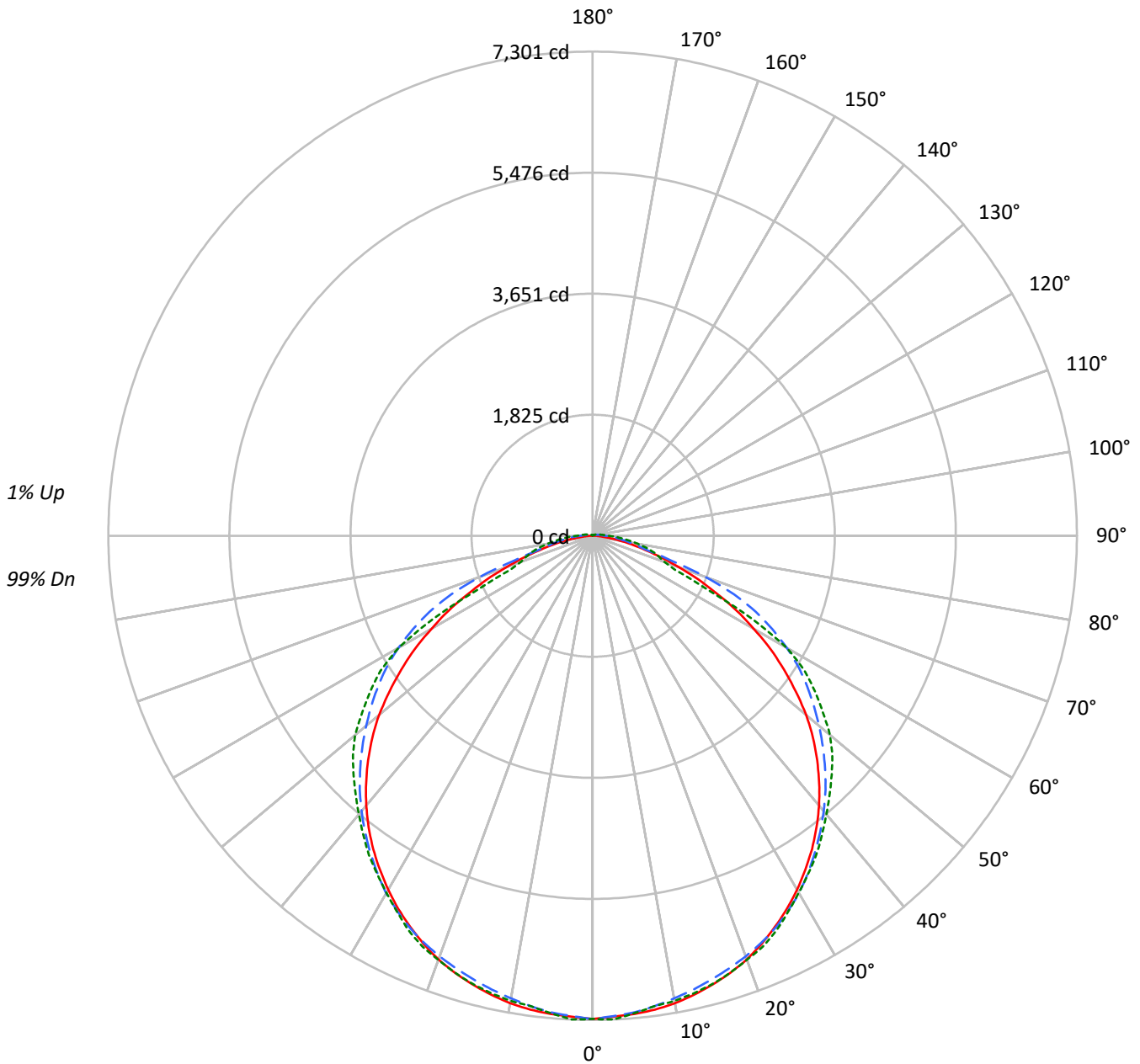
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20593.9 lumens
Efficiency: N/A
Efficacy: 149.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 138
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

TEST NUMBER: P830113
CATALOG NUMBER: OHBL-24SE-MCL-UNV-L940-CD

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	119	119	119	119	116	116	116	116	110	110	110	106	106	106	101	101	101				99																
1	109	104	100	96	106	102	98	95	97	94	91	93	91	88	90	87	86				83																
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72				70																
3	91	80	72	66	88	79	71	65	75	69	64	72	67	63	70	65	61				59																
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	62	57	53				51																
5	76	64	55	48	74	62	54	48	60	53	47	58	52	46	56	50	46				44																
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40				38																
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36				34																
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	42	36	32				30																
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29				27																
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26				24																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12445	12445	12445
5°	12363	12258	12282
10°	12318	12067	12138
15°	12240	11923	12049
20°	12162	11830	11934
25°	12015	11736	11820
30°	11855	11592	11588
35°	11665	11365	11455
40°	11417	11131	11277
45°	11073	10861	11192
50°	10607	10554	11090
55°	9866	10251	10662
60°	8897	9810	9840
65°	7632	9001	6223
70°	6147	7012	4498
75°	4609	4150	4546
80°	3208	3435	4311
85°	1826	3119	3988



TEST NUMBER: P830113

CATALOG NUMBER: OHBL-24SE-MCL-UNV-L940-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	687.0	3.3
10°-20°	1970.0	9.6
20°-30°	3008.9	14.6
30°-40°	3650.8	17.7
40°-50°	3826.4	18.6
50°-60°	3467.3	16.8
60°-70°	2324.7	11.3
70°-80°	1043.9	5.1
80°-90°	378.8	1.8
90°-100°	114.0	0.6
100°-110°	53.8	0.3
110°-120°	27.0	0.1
120°-130°	14.9	0.1
130°-140°	10.2	0.0
140°-150°	6.9	0.0
150°-160°	5.1	0.0
160°-170°	3.3	0.0
170°-180°	1.0	0.0
0°-30°	5665.9	27.5
0°-40°	9316.7	45.2
0°-60°	16610.4	80.7
0°-90°	20357.8	98.9
90°-120°	194.8	0.9
90°-150°	226.7	1.1
90°-180°	236.0	1.1
0°-180°	20593.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7286	7286	7286	7286	7286	
5°	7239	7264	7214	7236	7226	688
15°	7004	6976	6927	6988	6996	1977
25°	6507	6478	6523	6584	6564	2999
35°	5767	5781	5840	5902	5879	3605
45°	4786	4864	4955	5081	5097	3687
55°	3522	3692	3943	4101	4092	3144
65°	2067	2390	2714	2290	1870	2060
75°	813	1180	868	888	946	889
85°	140	269	344	416	436	171
90°	1	90	178	223	234	8
95°	1	56	122	148	153	1
105°	4	24	60	73	76	5
115°	8	13	31	39	41	8
125°	7	8	19	22	23	7
135°	10	10	12	17	18	8
145°	10	10	10	12	13	6
155°	10	12	12	12	10	5
165°	12	12	12	12	12	3
175°	12	12	10	10	10	1
180°	10	10	10	10	10	



TEST NUMBER: P830113

CATALOG NUMBER: OHBL-24SE-MCL-UNV-L940-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7286.2	7286.2	7286.2	7286.2	7286.2
2.5°	7256.7	7287.2	7249.3	7290.4	7300.9
5°	7238.8	7264.1	7213.5	7235.6	7226.1
7.5°	7206.1	7214.5	7154.5	7172.4	7153.4
10°	7157.6	7153.4	7082.8	7117.6	7121.8
12.5°	7086.0	7073.4	7010.2	7062.8	7063.9
15°	7003.8	6976.4	6926.9	6988.0	6996.5
17.5°	6909.0	6873.2	6840.5	6919.5	6906.9
20°	6798.4	6756.3	6749.9	6836.3	6804.7
22.5°	6661.4	6628.8	6643.5	6725.7	6705.7
25°	6506.6	6478.1	6523.4	6583.5	6564.5
27.5°	6343.3	6326.4	6378.0	6424.4	6387.5
30°	6164.2	6154.7	6223.2	6261.1	6214.7
32.5°	5969.3	5972.4	6037.7	6089.4	6046.2
35°	5767.0	5780.7	5839.7	5901.8	5878.7
37.5°	5544.7	5575.3	5634.2	5704.8	5680.6
40°	5309.8	5354.0	5419.3	5504.7	5482.5
42.5°	5055.9	5111.7	5196.0	5290.8	5288.7
45°	4786.2	4864.1	4954.7	5081.1	5097.0
47.5°	4505.9	4593.4	4708.2	4876.8	4901.0
50°	4201.5	4311.0	4454.3	4656.6	4671.3
52.5°	3862.2	4011.8	4201.5	4395.3	4377.4
55°	3521.9	3691.5	3943.3	4101.4	4091.9
57.5°	3182.7	3373.4	3678.9	3791.6	3790.6
60°	2803.4	3044.7	3378.7	3464.0	3379.7
62.5°	2452.6	2711.8	3058.4	2996.2	2707.6
65°	2067.0	2390.4	2713.9	2290.4	1870.0
67.5°	1724.6	2061.7	2305.1	1568.7	1343.2
70°	1380.1	1752.0	1797.3	1164.1	1148.3
72.5°	1074.6	1470.7	1240.0	996.6	1047.2
75°	813.3	1179.9	868.1	888.1	946.1
77.5°	593.1	906.0	675.3	778.6	826.0
80°	407.7	641.6	551.0	654.2	686.9
82.5°	256.0	423.5	441.4	526.8	560.5
85°	140.1	268.6	344.5	416.1	436.2
87.5°	57.9	162.2	263.4	321.3	338.2
90°	1.1	89.5	178.0	223.3	233.9
92.5°	1.1	68.5	145.4	180.2	187.5
95°	1.1	55.8	122.2	148.5	152.8
97.5°	2.1	44.2	102.2	123.3	127.5
100°	3.2	36.9	85.3	103.2	106.4
102.5°	4.2	29.5	71.6	86.4	89.5
105°	4.2	24.2	60.1	72.7	75.9



TEST NUMBER: P830113

CATALOG NUMBER: OHBL-24SE-MCL-UNV-L940-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	7.4	14.7	35.8	45.3	47.4
115°	8.4	12.6	30.6	39.0	41.1
117.5°	8.4	10.5	26.3	32.7	34.8
120°	8.4	9.5	23.2	28.4	29.5
122.5°	8.4	8.4	20.0	25.3	26.3
125°	7.4	8.4	19.0	22.1	23.2
127.5°	8.4	8.4	16.9	20.0	21.1
130°	8.4	9.5	14.7	19.0	19.0
132.5°	9.5	10.5	13.7	17.9	17.9
135°	9.5	10.5	11.6	16.9	17.9
137.5°	10.5	10.5	10.5	15.8	16.9
140°	10.5	10.5	9.5	13.7	14.7
142.5°	9.5	10.5	9.5	12.6	13.7
145°	9.5	10.5	10.5	11.6	12.6
147.5°	10.5	10.5	10.5	10.5	11.6
150°	10.5	10.5	10.5	10.5	10.5
152.5°	10.5	10.5	10.5	10.5	10.5
155°	10.5	11.6	11.6	11.6	10.5
157.5°	10.5	11.6	11.6	11.6	11.6
160°	10.5	11.6	11.6	11.6	11.6
162.5°	11.6	11.6	11.6	11.6	11.6
165°	11.6	11.6	11.6	11.6	11.6
167.5°	11.6	12.6	11.6	11.6	11.6
170°	11.6	11.6	11.6	10.5	10.5
172.5°	11.6	11.6	11.6	10.5	10.5
175°	11.6	11.6	10.5	9.5	9.5
177.5°	12.6	11.6	10.5	9.5	8.4
180°	10.5	10.5	10.5	10.5	10.5



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	5.3	20.0	51.6	62.2	64.3
110°	6.3	16.9	43.2	52.7	54.8



(END OF REPORT)