

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: P829250

Luminaire Tested: **OHB-24SE-MCL-UNV-L950-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829250
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: OHB-24SE-MCL-UNV-L950-CD
Description: 24000 LUMEN OHB SE LED LUMINAIRE WITH 90CRI, 5000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

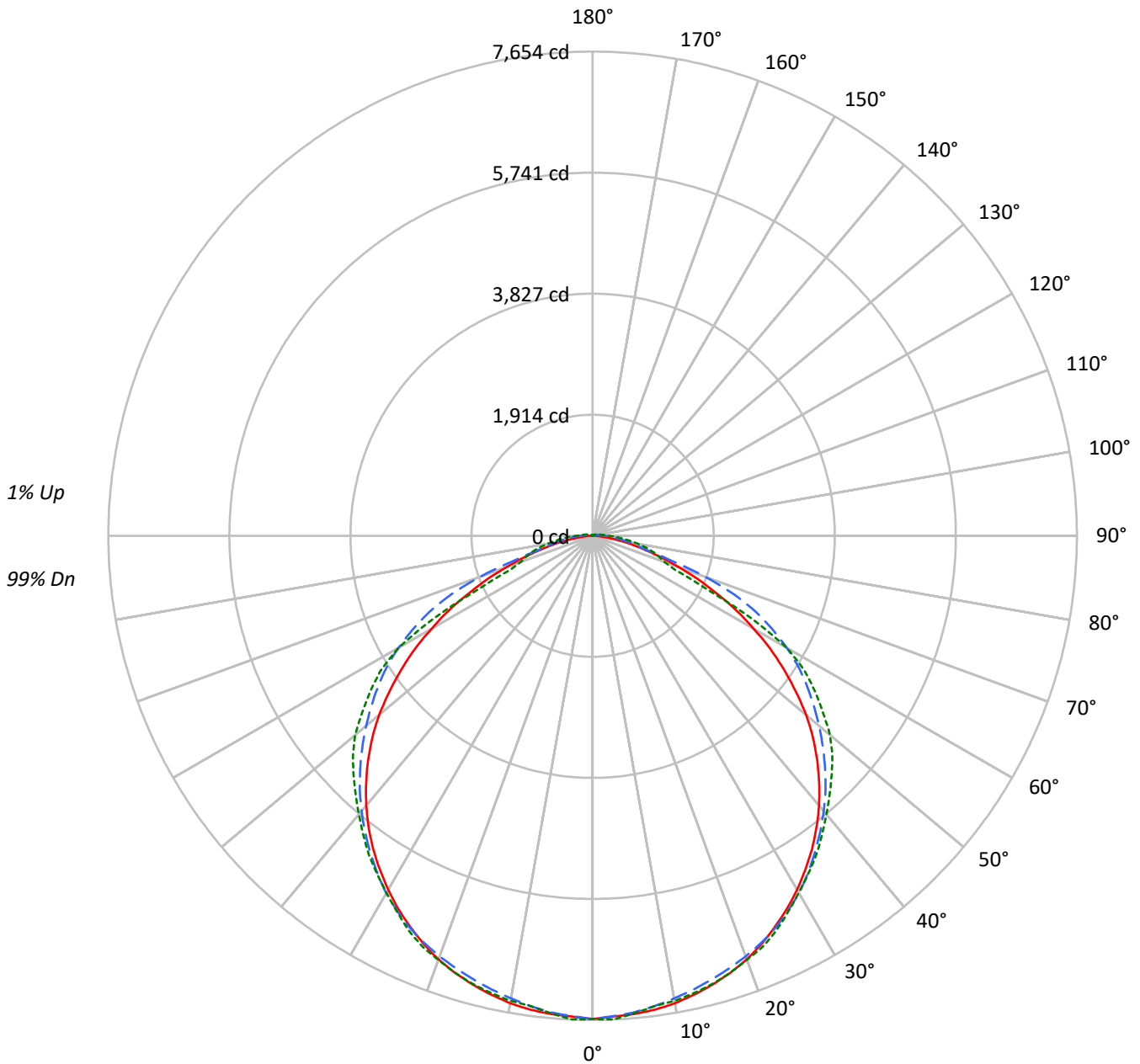
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21588.9 lumens
Efficiency: N/A
Efficacy: 147.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 1.93' x H: 0.17')
CIE Type: Direct

Input Watts (W): 146.6
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: P829250
CATALOG NUMBER: OHB-24SE-MCL-UNV-L950-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°	25516	25516	25516
5°	25256	25069	25182
10°	25071	24615	24886
15°	24819	24257	24703
20°	24565	24004	24468
25°	24169	23748	24235
30°	23744	23386	23758
35°	23250	22857	23487
40°	22635	22309	23122
45°	21822	21683	22947
50°	20756	20975	22739
55°	19145	20265	21860
60°	17084	19268	20176
65°	14455	17535	12759
70°	11424	13513	9223
75°	8325	7875	9321
80°	5522	6361	8839
85°	2836	5524	8176



TEST NUMBER: P829250

CATALOG NUMBER: OHB-24SE-MCL-UNV-L950-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	720.2	3.3
10°-20°	2065.2	9.6
20°-30°	3154.3	14.6
30°-40°	3827.2	17.7
40°-50°	4011.3	18.6
50°-60°	3634.8	16.8
60°-70°	2437.0	11.3
70°-80°	1094.3	5.1
80°-90°	397.1	1.8
90°-100°	119.5	0.6
100°-110°	56.4	0.3
110°-120°	28.3	0.1
120°-130°	15.6	0.1
130°-140°	10.7	0.0
140°-150°	7.2	0.0
150°-160°	5.3	0.0
160°-170°	3.4	0.0
170°-180°	1.1	0.0
0°-30°	5939.7	27.5
0°-40°	9766.9	45.2
0°-60°	17413.0	80.7
0°-90°	21341.4	98.9
90°-120°	204.2	0.9
90°-150°	237.7	1.1
90°-180°	248.0	1.1
0°-180°	21588.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7638	7638	7638	7638	7638	
5°	7588	7615	7562	7585	7575	722
15°	7342	7314	7262	7326	7334	2073
25°	6821	6791	6839	6902	6882	3144
35°	6046	6060	6122	6187	6163	3779
45°	5017	5099	5194	5327	5343	3865
55°	3692	3870	4134	4300	4290	3296
65°	2167	2506	2845	2401	1960	2159
75°	853	1237	910	931	992	932
85°	147	282	361	436	457	179
90°	1	94	187	234	245	9
95°	1	58	128	156	160	1
105°	4	25	63	76	80	5
115°	9	13	32	41	43	8
125°	8	9	20	23	24	8
135°	10	11	12	18	19	8
145°	10	11	11	12	13	7
155°	11	12	12	12	11	5
165°	12	12	12	12	12	3
175°	12	12	11	10	10	1
180°	11	11	11	11	11	



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CATALOG NUMBER: OHB-24SE-MCL-UNV-L950-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7638.2	7638.2	7638.2	7638.2	7638.2
2.5°	7607.3	7639.3	7599.6	7642.6	7653.7
5°	7588.5	7615.0	7562.0	7585.2	7575.3
7.5°	7554.3	7563.1	7500.2	7518.9	7499.0
10°	7503.5	7499.0	7425.1	7461.5	7465.9
12.5°	7428.4	7415.1	7348.8	7404.1	7405.2
15°	7342.2	7313.5	7261.6	7325.7	7334.5
17.5°	7242.8	7205.3	7171.0	7253.9	7240.6
20°	7126.9	7082.7	7076.1	7166.6	7133.5
22.5°	6983.3	6949.0	6964.5	7050.7	7029.7
25°	6820.9	6791.1	6838.6	6901.6	6881.7
27.5°	6649.7	6632.1	6686.2	6734.8	6696.1
30°	6462.0	6452.1	6523.8	6563.6	6515.0
32.5°	6257.7	6261.0	6329.5	6383.6	6338.3
35°	6045.6	6060.0	6121.8	6187.0	6162.7
37.5°	5812.6	5844.6	5906.5	5980.5	5955.1
40°	5566.3	5612.7	5681.2	5770.6	5747.4
42.5°	5300.1	5358.7	5447.0	5546.4	5544.2
45°	5017.4	5099.1	5194.1	5326.6	5343.2
47.5°	4723.6	4815.3	4935.7	5112.4	5137.8
50°	4404.4	4519.3	4669.5	4881.6	4897.0
52.5°	4048.8	4205.7	4404.4	4607.7	4588.9
55°	3692.1	3869.9	4133.9	4299.5	4289.6
57.5°	3336.5	3536.4	3856.7	3974.8	3973.7
60°	2938.9	3191.8	3541.9	3631.4	3543.0
62.5°	2571.1	2842.8	3206.1	3141.0	2838.4
65°	2166.9	2505.9	2845.0	2401.0	1960.4
67.5°	1807.9	2161.4	2416.5	1644.5	1408.1
70°	1446.8	1836.7	1884.1	1220.4	1203.8
72.5°	1126.5	1541.8	1299.9	1044.8	1097.8
75°	852.6	1237.0	910.0	931.0	991.8
77.5°	621.8	949.8	707.9	816.2	865.9
80°	427.4	672.6	577.6	685.8	720.1
82.5°	268.4	444.0	462.8	552.2	587.6
85°	146.9	281.6	361.1	436.2	457.2
87.5°	60.7	170.1	276.1	336.8	354.5
90°	1.1	93.9	186.6	234.1	245.2
92.5°	1.1	71.8	152.4	188.9	196.6
95°	1.1	58.5	128.1	155.7	160.1
97.5°	2.2	46.4	107.1	129.2	133.6
100°	3.3	38.7	89.5	108.2	111.5
102.5°	4.4	30.9	75.1	90.6	93.9
105°	4.4	25.4	63.0	76.2	79.5



TEST NUMBER: P829250

CATALOG NUMBER: OHB-24SE-MCL-UNV-L950-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	7.7	15.5	37.6	47.5	49.7
115°	8.8	13.3	32.0	40.9	43.1
117.5°	8.8	11.0	27.6	34.2	36.4
120°	8.8	9.9	24.3	29.8	30.9
122.5°	8.8	8.8	21.0	26.5	27.6
125°	7.7	8.8	19.9	23.2	24.3
127.5°	8.8	8.8	17.7	21.0	22.1
130°	8.8	9.9	15.5	19.9	19.9
132.5°	9.9	11.0	14.4	18.8	18.8
135°	9.9	11.0	12.1	17.7	18.8
137.5°	11.0	11.0	11.0	16.6	17.7
140°	11.0	11.0	9.9	14.4	15.5
142.5°	9.9	11.0	9.9	13.3	14.4
145°	9.9	11.0	11.0	12.1	13.3
147.5°	11.0	11.0	11.0	11.0	12.1
150°	11.0	11.0	11.0	11.0	11.0
152.5°	11.0	11.0	11.0	11.0	11.0
155°	11.0	12.1	12.1	12.1	11.0
157.5°	11.0	12.1	12.1	12.1	12.1
160°	11.0	12.1	12.1	12.1	12.1
162.5°	12.1	12.1	12.1	12.1	12.1
165°	12.1	12.1	12.1	12.1	12.1
167.5°	12.1	13.3	12.1	12.1	12.1
170°	12.1	12.1	12.1	11.0	11.0
172.5°	12.1	12.1	12.1	11.0	11.0
175°	12.1	12.1	11.0	9.9	9.9
177.5°	13.3	12.1	11.0	9.9	8.8
180°	11.0	11.0	11.0	11.0	11.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	5.5	21.0	54.1	65.2	67.4
110°	6.6	17.7	45.3	55.2	57.4



(END OF REPORT)