

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: P830095

Luminaire Tested: **OHBL-24SE-A-UNV-L830-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830095
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-A-UNV-L830-CD
Description: 24000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

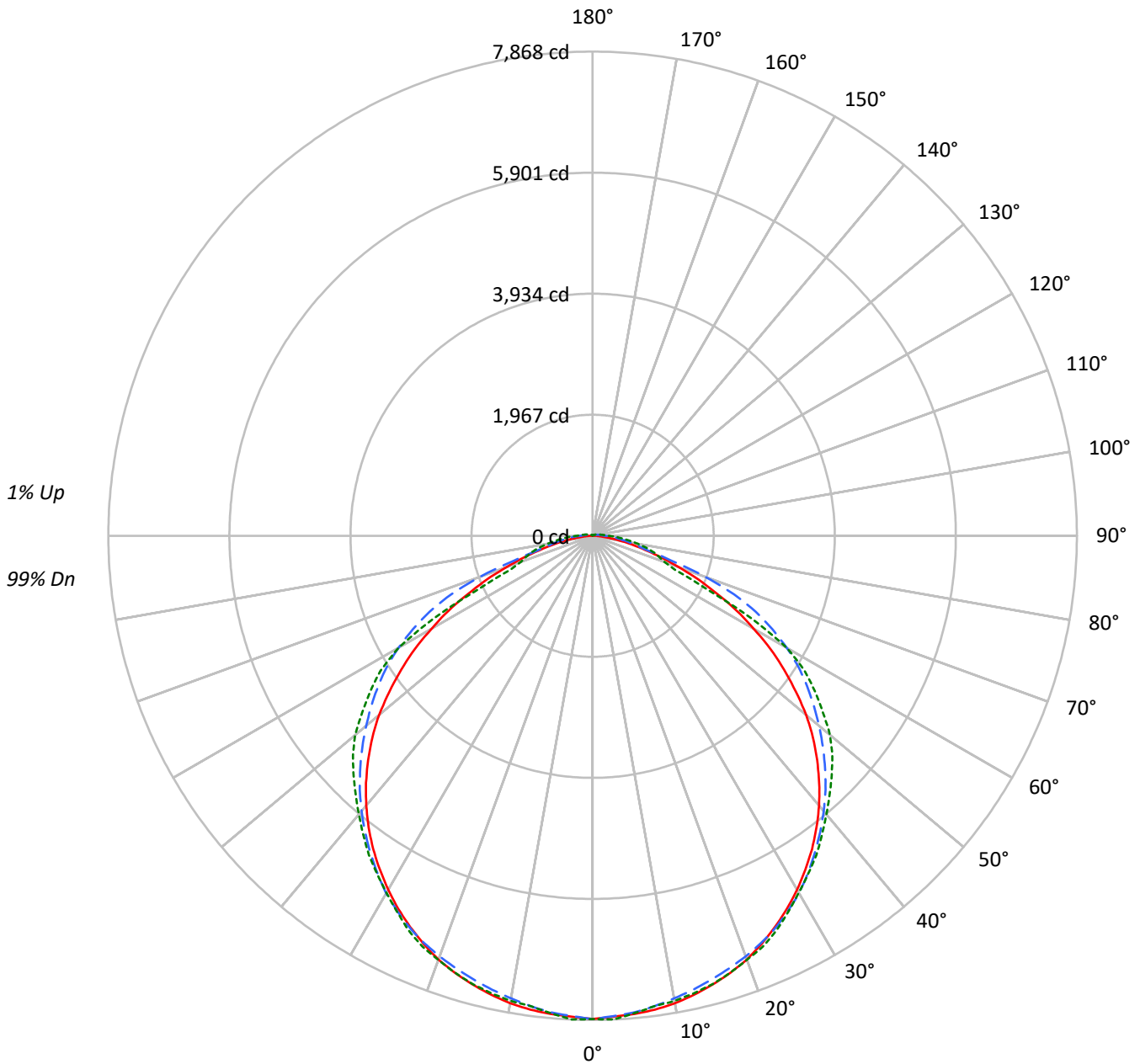
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22194.1 lumens
Efficiency: N/A
Efficacy: 160.8 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 (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

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13412	13412	13412
5°	13324	13211	13236
10°	13275	13005	13081
15°	13191	12849	12985
20°	13107	12749	12861
25°	12949	12648	12738
30°	12776	12492	12488
35°	12571	12248	12345
40°	12303	11996	12154
45°	11933	11705	12062
50°	11431	11374	11952
55°	10633	11047	11490
60°	9588	10572	10605
65°	8225	9700	6706
70°	6625	7557	4848
75°	4967	4473	4900
80°	3457	3701	4646
85°	1968	3361	4298



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	740.4	3.3
10°-20°	2123.1	9.6
20°-30°	3242.6	14.6
30°-40°	3934.4	17.7
40°-50°	4123.7	18.6
50°-60°	3736.7	16.8
60°-70°	2505.3	11.3
70°-80°	1125.0	5.1
80°-90°	408.2	1.8
90°-100°	122.9	0.6
100°-110°	58.0	0.3
110°-120°	29.1	0.1
120°-130°	16.0	0.1
130°-140°	11.0	0.0
140°-150°	7.4	0.0
150°-160°	5.5	0.0
160°-170°	3.5	0.0
170°-180°	1.1	0.0
0°-30°	6106.1	27.5
0°-40°	10040.6	45.2
0°-60°	17900.9	80.7
0°-90°	21939.4	98.9
90°-120°	209.9	0.9
90°-150°	244.4	1.1
90°-180°	255.0	1.1
0°-180°	22194.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7852	7852	7852	7852	7852	
5°	7801	7828	7774	7798	7788	742
15°	7548	7518	7465	7531	7540	2131
25°	7012	6981	7030	7095	7074	3232
35°	6215	6230	6293	6360	6335	3885
45°	5158	5242	5340	5476	5493	3973
55°	3796	3978	4250	4420	4410	3388
65°	2228	2576	2925	2468	2015	2220
75°	876	1272	936	957	1020	958
85°	151	290	371	448	470	184
90°	1	96	192	241	252	9
95°	1	60	132	160	165	2
105°	4	26	65	78	82	5
115°	9	14	33	42	44	8
125°	8	9	20	24	25	8
135°	10	11	12	18	19	8
145°	10	11	11	12	14	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	



TEST NUMBER: P830095

CATALOG NUMBER: OHBL-24SE-A-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7852.3	7852.3	7852.3	7852.3	7852.3
2.5°	7820.5	7853.4	7812.5	7856.8	7868.2
5°	7801.2	7828.4	7773.9	7797.8	7787.5
7.5°	7766.0	7775.1	7710.3	7729.6	7709.2
10°	7713.7	7709.2	7633.1	7670.6	7675.1
12.5°	7636.5	7622.9	7554.8	7611.6	7612.7
15°	7548.0	7518.5	7465.1	7530.9	7540.0
17.5°	7445.8	7407.2	7372.0	7457.1	7443.5
20°	7326.6	7281.2	7274.3	7367.5	7333.4
22.5°	7179.0	7143.8	7159.7	7248.2	7226.7
25°	7012.1	6981.4	7030.2	7095.0	7074.5
27.5°	6836.1	6817.9	6873.6	6923.5	6883.8
30°	6643.1	6632.9	6706.7	6747.5	6697.6
32.5°	6433.0	6436.4	6506.8	6562.5	6515.9
35°	6215.0	6229.8	6293.4	6360.4	6335.4
37.5°	5975.5	6008.4	6072.0	6148.1	6121.9
40°	5722.3	5770.0	5840.4	5932.3	5908.5
42.5°	5448.7	5508.8	5599.7	5701.9	5699.6
45°	5158.0	5242.0	5339.7	5475.9	5492.9
47.5°	4856.0	4950.2	5074.0	5255.7	5281.8
50°	4527.9	4646.0	4800.4	5018.4	5034.3
52.5°	4162.3	4323.5	4527.9	4736.8	4717.5
55°	3795.6	3978.4	4249.7	4420.0	4409.8
57.5°	3430.0	3635.5	3964.7	4086.2	4085.1
60°	3021.2	3281.2	3641.1	3733.1	3642.3
62.5°	2643.2	2922.5	3296.0	3229.0	2917.9
65°	2227.6	2576.2	2924.7	2468.3	2015.3
67.5°	1858.6	2221.9	2484.2	1690.6	1447.6
70°	1487.3	1888.1	1937.0	1254.6	1237.6
72.5°	1158.1	1585.0	1336.3	1074.1	1128.6
75°	876.5	1271.6	935.5	957.1	1019.6
77.5°	639.2	976.4	727.8	839.0	890.1
80°	439.4	691.4	593.8	705.1	740.3
82.5°	275.9	456.4	475.7	567.7	604.0
85°	151.0	289.5	371.3	448.5	470.0
87.5°	62.4	174.8	283.8	346.3	364.5
90°	1.1	96.5	191.9	240.7	252.1
92.5°	1.1	73.8	156.7	194.1	202.1
95°	1.1	60.2	131.7	160.1	164.6
97.5°	2.3	47.7	110.1	132.8	137.4
100°	3.4	39.7	92.0	111.3	114.7
102.5°	4.5	31.8	77.2	93.1	96.5
105°	4.5	26.1	64.7	78.3	81.7



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CATALOG NUMBER: OHBL-24SE-A-UNV-L830-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	7.9	15.9	38.6	48.8	51.1
115°	9.1	13.6	32.9	42.0	44.3
117.5°	9.1	11.4	28.4	35.2	37.5
120°	9.1	10.2	25.0	30.7	31.8
122.5°	9.1	9.1	21.6	27.2	28.4
125°	7.9	9.1	20.4	23.8	25.0
127.5°	9.1	9.1	18.2	21.6	22.7
130°	9.1	10.2	15.9	20.4	20.4
132.5°	10.2	11.4	14.8	19.3	19.3
135°	10.2	11.4	12.5	18.2	19.3
137.5°	11.4	11.4	11.4	17.0	18.2
140°	11.4	11.4	10.2	14.8	15.9
142.5°	10.2	11.4	10.2	13.6	14.8
145°	10.2	11.4	11.4	12.5	13.6
147.5°	11.4	11.4	11.4	11.4	12.5
150°	11.4	11.4	11.4	11.4	11.4
152.5°	11.4	11.4	11.4	11.4	11.4
155°	11.4	12.5	12.5	12.5	11.4
157.5°	11.4	12.5	12.5	12.5	12.5
160°	11.4	12.5	12.5	12.5	12.5
162.5°	12.5	12.5	12.5	12.5	12.5
165°	12.5	12.5	12.5	12.5	12.5
167.5°	12.5	13.6	12.5	12.5	12.5
170°	12.5	12.5	12.5	11.4	11.4
172.5°	12.5	12.5	12.5	11.4	11.4
175°	12.5	12.5	11.4	10.2	10.2
177.5°	13.6	12.5	11.4	10.2	9.1
180°	11.4	11.4	11.4	11.4	11.4



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	5.7	21.6	55.6	67.0	69.3
110°	6.8	18.2	46.6	56.8	59.0



(END OF REPORT)