

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: P830161

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830161
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-24SE-W-UNV-L940-CD
Description: 24000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

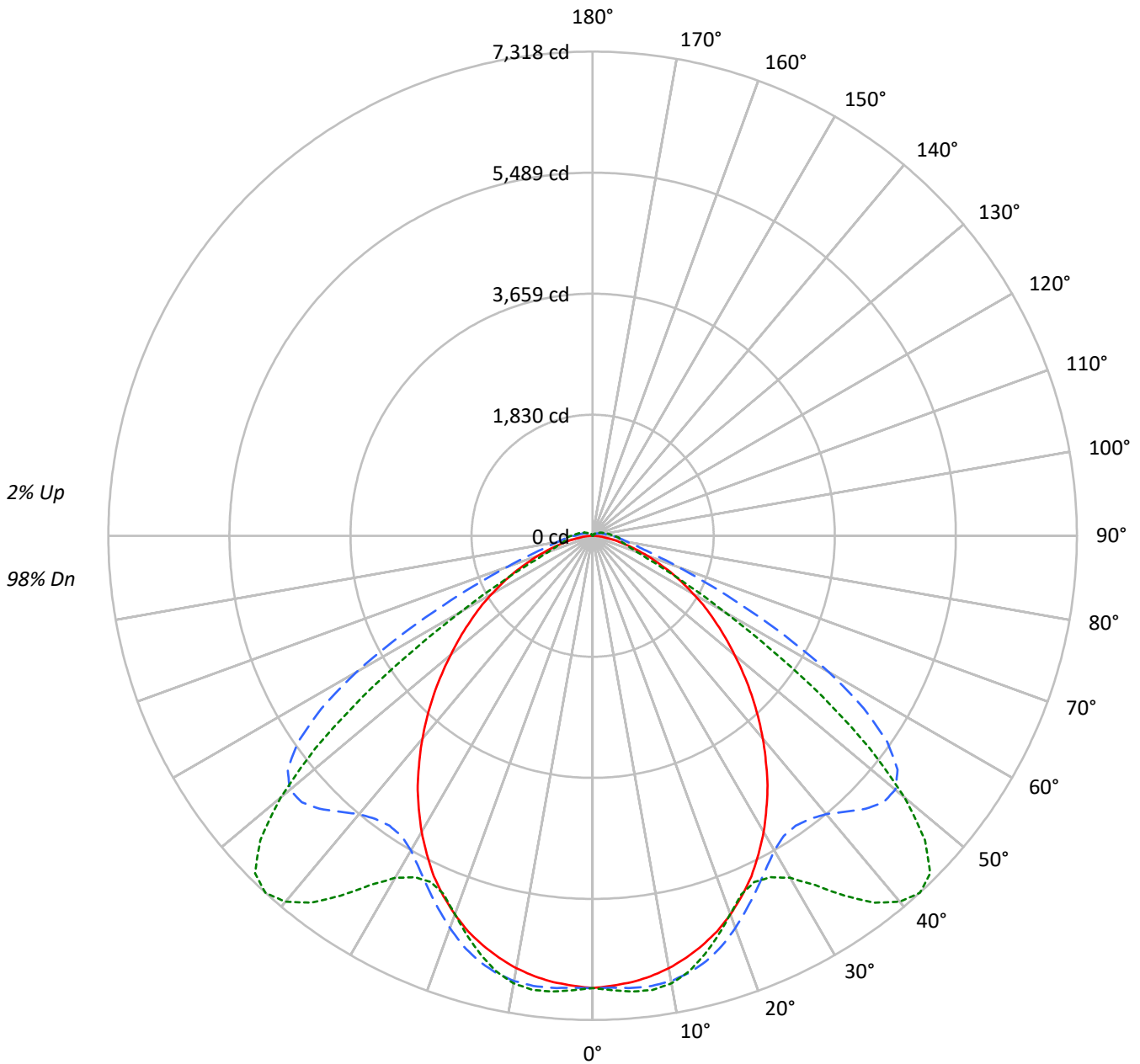
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20467.9 lumens
Efficiency: N/A
Efficacy: 148.3 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
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	105	105	105	100	100	100	100	100	100	98
1	109	104	100	96	106	102	98	95	97	94	91	93	90	88	89	87	85	85	85	85	83
2	99	91	85	79	96	89	83	78	85	80	76	82	77	74	78	75	72	72	72	72	70
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	69	65	61	61	61	61	59
4	83	71	62	56	80	69	61	55	67	60	54	64	58	53	62	57	52	52	52	52	50
5	76	63	54	48	74	62	54	47	60	52	47	57	51	46	55	50	45	45	45	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	40	40	40	38
7	65	51	43	36	63	50	42	36	49	41	36	47	40	35	45	40	35	35	35	35	33
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	31	31	31	29
9	56	43	34	29	55	42	34	29	41	34	28	39	33	28	38	32	28	28	28	28	26
10	52	39	31	26	51	39	31	26	38	31	26	36	30	26	35	30	25	25	25	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11676	11676	11676
5°	11567	11659	11751
10°	11422	11642	11708
15°	11199	11449	11277
20°	10894	11055	10670
25°	10485	10579	10399
30°	9942	10225	11126
35°	9322	10414	12938
40°	8603	11278	14853
45°	7851	12793	15840
50°	7067	14146	14605
55°	6330	14128	11037
60°	5579	11952	6656
65°	4787	8252	3961
70°	3889	5334	2791
75°	2959	3822	2494
80°	2124	3356	2647
85°	1441	3685	3681



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	653.3	3.2
10°-20°	1849.8	9.0
20°-30°	2706.9	13.2
30°-40°	3515.5	17.2
40°-50°	4292.8	21.0
50°-60°	3780.5	18.5
60°-70°	1970.0	9.6
70°-80°	844.8	4.1
80°-90°	405.7	2.0
90°-100°	190.6	0.9
100°-110°	118.5	0.6
110°-120°	70.0	0.3
120°-130°	38.1	0.2
130°-140°	19.1	0.1
140°-150°	9.2	0.0
150°-160°	3.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5209.9	25.5
0°-40°	8725.4	42.6
0°-60°	16798.7	82.1
0°-90°	20019.3	97.8
90°-120°	379.1	1.9
90°-150°	445.5	2.2
90°-180°	449.0	2.2
0°-180°	20467.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6836	6836	6836	6836	6836	
5°	6772	6824	6861	6922	6914	642
15°	6408	6588	6652	6601	6548	1804
25°	5678	5982	5880	5770	5776	2606
35°	4609	5096	5351	6240	6640	2873
45°	3394	4270	5836	7066	7214	2617
55°	2260	3740	5435	4765	4236	2028
65°	1296	2591	2488	1383	1190	1283
75°	522	1212	799	547	519	569
85°	111	432	407	398	403	123
90°	2	156	268	307	314	8
95°	3	91	214	251	258	2
105°	6	52	139	167	170	6
115°	9	30	86	105	108	9
125°	10	15	50	65	66	9
135°	9	9	24	40	41	7
145°	12	9	10	19	22	7
155°	12	12	9	9	9	4
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6835.9	6835.9	6835.9	6835.9	6835.9
2.5°	6806.4	6835.9	6837.4	6878.7	6874.3
5°	6772.5	6824.1	6861.0	6921.5	6914.1
7.5°	6716.5	6797.6	6862.5	6928.9	6923.0
10°	6636.8	6747.4	6833.0	6887.6	6869.9
12.5°	6533.6	6679.6	6763.7	6775.5	6741.5
15°	6408.2	6588.2	6651.6	6601.4	6548.3
17.5°	6266.6	6477.5	6499.7	6390.5	6324.2
20°	6089.7	6330.1	6307.9	6157.5	6083.8
22.5°	5893.5	6167.8	6097.0	5939.2	5868.4
25°	5678.2	5982.0	5880.2	5769.6	5775.5
27.5°	5426.0	5771.1	5672.3	5722.4	5816.8
30°	5169.4	5549.9	5489.4	5781.4	5967.3
32.5°	4887.7	5322.7	5377.3	5954.0	6257.8
35°	4608.9	5095.6	5350.8	6240.1	6639.8
37.5°	4300.7	4865.5	5393.5	6570.5	6989.3
40°	4001.3	4641.4	5490.9	6866.9	7220.9
42.5°	3696.0	4440.8	5654.6	7042.4	7318.2
45°	3393.6	4269.7	5836.0	7066.0	7213.5
47.5°	3091.3	4125.2	5961.4	6878.7	6810.9
50°	2799.3	3996.8	5970.2	6428.9	6151.6
52.5°	2526.4	3878.9	5808.0	5712.1	5281.4
55°	2259.5	3740.2	5434.8	4765.2	4235.8
57.5°	2016.1	3548.5	4859.6	3747.6	3169.5
60°	1758.0	3288.9	4116.3	2741.7	2286.0
62.5°	1520.6	2965.9	3283.0	1908.5	1643.0
65°	1296.4	2591.3	2488.1	1383.4	1190.2
67.5°	1058.9	2203.4	1836.2	1008.8	884.9
70°	873.1	1843.6	1367.2	784.6	712.4
72.5°	682.9	1501.4	1022.1	637.1	597.3
75°	522.1	1212.3	799.4	547.2	519.1
77.5°	384.9	958.7	643.0	483.8	457.2
80°	269.9	755.1	538.3	432.1	421.8
82.5°	181.4	584.0	458.7	411.5	413.0
85°	110.6	432.1	407.1	398.2	402.6
87.5°	53.1	306.8	349.5	362.8	367.2
90°	1.5	156.3	268.4	306.8	314.1
92.5°	0.0	119.5	236.0	274.3	281.7
95°	2.9	91.4	213.9	250.7	258.1
97.5°	2.9	75.2	191.7	230.1	234.5
100°	4.4	64.9	171.1	208.0	212.4
102.5°	4.4	57.5	153.4	185.8	188.8
105°	5.9	51.6	138.6	166.7	169.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	8.8	35.4	97.3	118.0	120.9
115°	8.8	29.5	85.5	104.7	107.7
117.5°	10.3	26.5	75.2	92.9	94.4
120°	10.3	22.1	64.9	82.6	84.1
122.5°	10.3	17.7	57.5	73.7	75.2
125°	10.3	14.7	50.1	64.9	66.4
127.5°	8.8	10.3	42.8	57.5	59.0
130°	8.8	8.8	35.4	50.1	53.1
132.5°	8.8	8.8	29.5	44.2	47.2
135°	8.8	8.8	23.6	39.8	41.3
137.5°	8.8	8.8	19.2	33.9	36.9
140°	8.8	8.8	14.7	29.5	31.0
142.5°	10.3	8.8	13.3	25.1	26.5
145°	11.8	8.8	10.3	19.2	22.1
147.5°	11.8	10.3	10.3	16.2	17.7
150°	11.8	11.8	8.8	11.8	14.7
152.5°	11.8	11.8	8.8	8.8	11.8
155°	11.8	11.8	8.8	8.8	8.8
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	7.4	45.7	123.9	149.0	151.9
110°	7.4	39.8	109.1	132.7	135.7



(END OF REPORT)