

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: P830159

Luminaire Tested: **OHBL-24SE-W-UNV-L930-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830159
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-L930-CD
Description: 24000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 3000K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

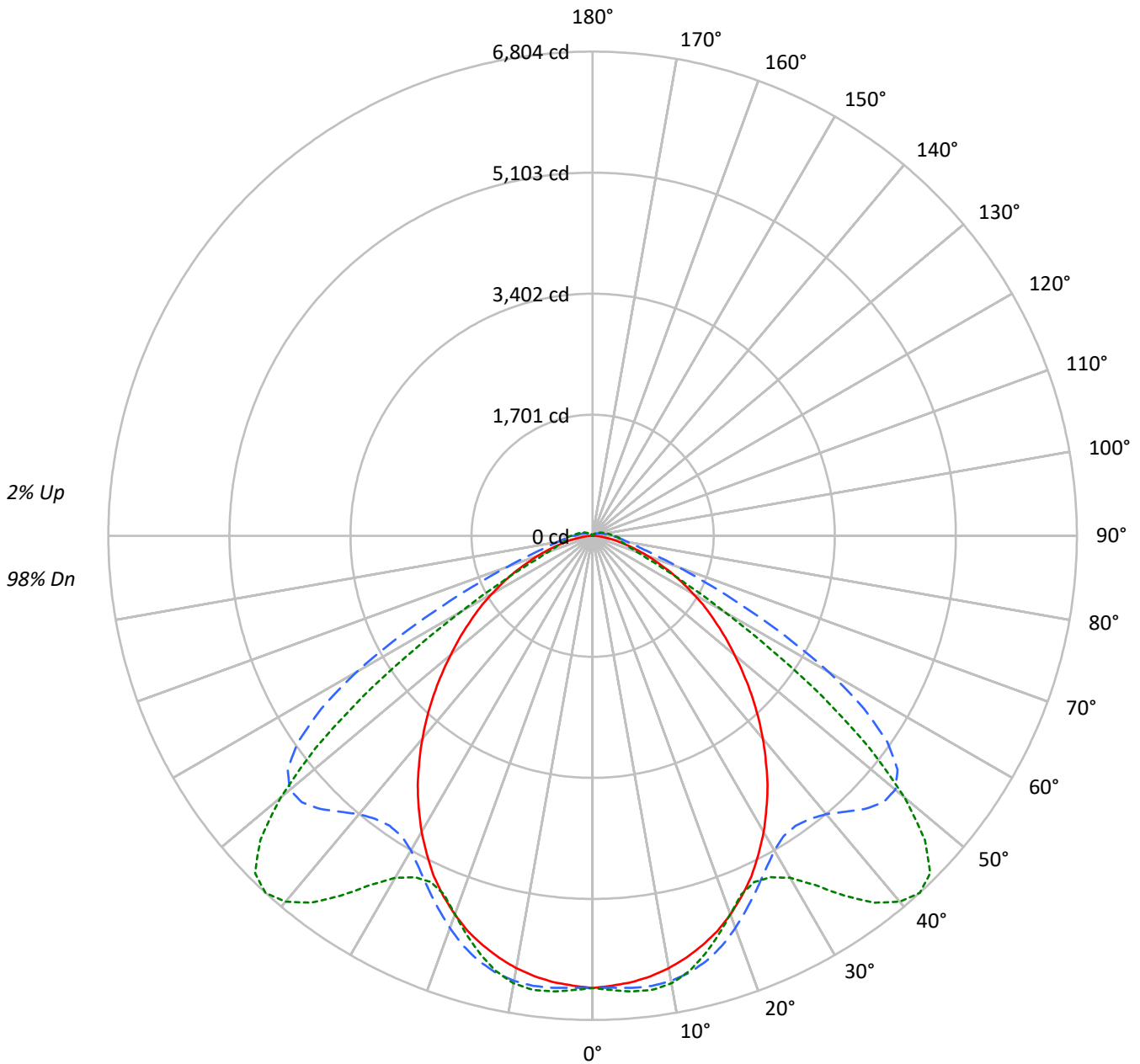
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19029.0 lumens
Efficiency: N/A
Efficacy: 137.9 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°	10855	10855	10855
5°	10754	10840	10925
10°	10619	10823	10885
15°	10412	10644	10484
20°	10128	10278	9919
25°	9748	9835	9668
30°	9243	9506	10344
35°	8667	9682	12029
40°	7998	10485	13809
45°	7299	11894	14726
50°	6570	13151	13578
55°	5885	13134	10261
60°	5187	11112	6188
65°	4450	7672	3682
70°	3616	4959	2594
75°	2751	3553	2319
80°	1974	3120	2461
85°	1340	3426	3422



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	607.3	3.2
10°-20°	1719.8	9.0
20°-30°	2516.6	13.2
30°-40°	3268.3	17.2
40°-50°	3991.0	21.0
50°-60°	3514.7	18.5
60°-70°	1831.5	9.6
70°-80°	785.4	4.1
80°-90°	377.2	2.0
90°-100°	177.2	0.9
100°-110°	110.2	0.6
110°-120°	65.1	0.3
120°-130°	35.4	0.2
130°-140°	17.7	0.1
140°-150°	8.5	0.0
150°-160°	3.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4843.7	25.5
0°-40°	8112.0	42.6
0°-60°	15617.7	82.1
0°-90°	18611.8	97.8
90°-120°	352.5	1.9
90°-150°	414.2	2.2
90°-180°	417.0	2.2
0°-180°	19029.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6355	6355	6355	6355	6355	
5°	6296	6344	6379	6435	6428	597
15°	5958	6125	6184	6137	6088	1678
25°	5279	5561	5467	5364	5370	2423
35°	4285	4737	4975	5801	6173	2671
45°	3155	3970	5426	6569	6706	2433
55°	2101	3477	5053	4430	3938	1885
65°	1205	2409	2313	1286	1106	1192
75°	485	1127	743	509	483	529
85°	103	402	378	370	374	115
90°	1	145	250	285	292	7
95°	3	85	199	233	240	2
105°	6	48	129	155	158	6
115°	8	27	80	97	100	8
125°	10	14	47	60	62	8
135°	8	8	22	37	38	6
145°	11	8	10	18	21	6
155°	11	11	8	8	8	3
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CATALOG NUMBER: OHBL-24SE-W-UNV-L930-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6355.3	6355.3	6355.3	6355.3	6355.3
2.5°	6327.9	6355.3	6356.7	6395.1	6391.0
5°	6296.4	6344.4	6378.6	6434.9	6428.0
7.5°	6244.3	6319.7	6380.0	6441.7	6436.2
10°	6170.2	6273.1	6352.6	6403.3	6386.9
12.5°	6074.3	6210.0	6288.2	6299.1	6267.6
15°	5957.7	6125.0	6183.9	6137.3	6088.0
17.5°	5826.1	6022.1	6042.7	5941.2	5879.5
20°	5661.5	5885.0	5864.5	5724.6	5656.0
22.5°	5479.2	5734.2	5668.4	5521.7	5455.9
25°	5279.0	5561.4	5466.8	5364.0	5369.5
27.5°	5044.5	5365.4	5273.5	5320.1	5407.9
30°	4805.9	5159.7	5103.5	5375.0	5547.7
32.5°	4544.0	4948.5	4999.3	5535.4	5817.8
35°	4284.9	4737.4	4974.6	5801.4	6173.0
37.5°	3998.3	4523.5	5014.3	6108.5	6497.9
40°	3720.0	4315.0	5104.8	6384.1	6713.2
42.5°	3436.1	4128.6	5257.0	6547.3	6803.7
45°	3155.0	3969.5	5425.7	6569.2	6706.4
47.5°	2874.0	3835.1	5542.2	6395.1	6332.0
50°	2602.5	3715.9	5550.5	5976.9	5719.1
52.5°	2348.8	3606.2	5399.6	5310.5	4910.1
55°	2100.6	3477.3	5052.7	4430.2	3938.0
57.5°	1874.4	3299.0	4518.0	3484.1	2946.6
60°	1634.4	3057.7	3826.9	2549.0	2125.3
62.5°	1413.7	2757.4	3052.2	1774.3	1527.5
65°	1205.3	2409.1	2313.2	1286.2	1106.5
67.5°	984.5	2048.5	1707.1	937.9	822.7
70°	811.7	1714.0	1271.1	729.5	662.3
72.5°	634.8	1395.8	950.2	592.3	555.3
75°	485.4	1127.1	743.2	508.7	482.6
77.5°	357.9	891.3	597.8	449.7	425.1
80°	250.9	702.0	500.5	401.8	392.2
82.5°	168.7	543.0	426.4	382.6	383.9
85°	102.8	401.8	378.4	370.2	374.3
87.5°	49.4	285.2	325.0	337.3	341.4
90°	1.4	145.3	249.6	285.2	292.1
92.5°	0.0	111.1	219.4	255.0	261.9
95°	2.7	85.0	198.8	233.1	240.0
97.5°	2.7	69.9	178.3	213.9	218.0
100°	4.1	60.3	159.1	193.3	197.4
102.5°	4.1	53.5	142.6	172.8	175.5
105°	5.5	48.0	128.9	154.9	157.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	8.2	32.9	90.5	109.7	112.4
115°	8.2	27.4	79.5	97.4	100.1
117.5°	9.6	24.7	69.9	86.4	87.8
120°	9.6	20.6	60.3	76.8	78.2
122.5°	9.6	16.5	53.5	68.6	69.9
125°	9.6	13.7	46.6	60.3	61.7
127.5°	8.2	9.6	39.8	53.5	54.8
130°	8.2	8.2	32.9	46.6	49.4
132.5°	8.2	8.2	27.4	41.1	43.9
135°	8.2	8.2	21.9	37.0	38.4
137.5°	8.2	8.2	17.8	31.5	34.3
140°	8.2	8.2	13.7	27.4	28.8
142.5°	9.6	8.2	12.3	23.3	24.7
145°	11.0	8.2	9.6	17.8	20.6
147.5°	11.0	9.6	9.6	15.1	16.5
150°	11.0	11.0	8.2	11.0	13.7
152.5°	11.0	11.0	8.2	8.2	11.0
155°	11.0	11.0	8.2	8.2	8.2
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°	6.9	42.5	115.2	138.5	<i>141.2</i>
110°	6.9	37.0	101.5	123.4	<i>126.1</i>



(END OF REPORT)