

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: P830158

Luminaire Tested: **OHBL-24SE-W-UNV-L850-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830158
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-L850-CD
Description: 24000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

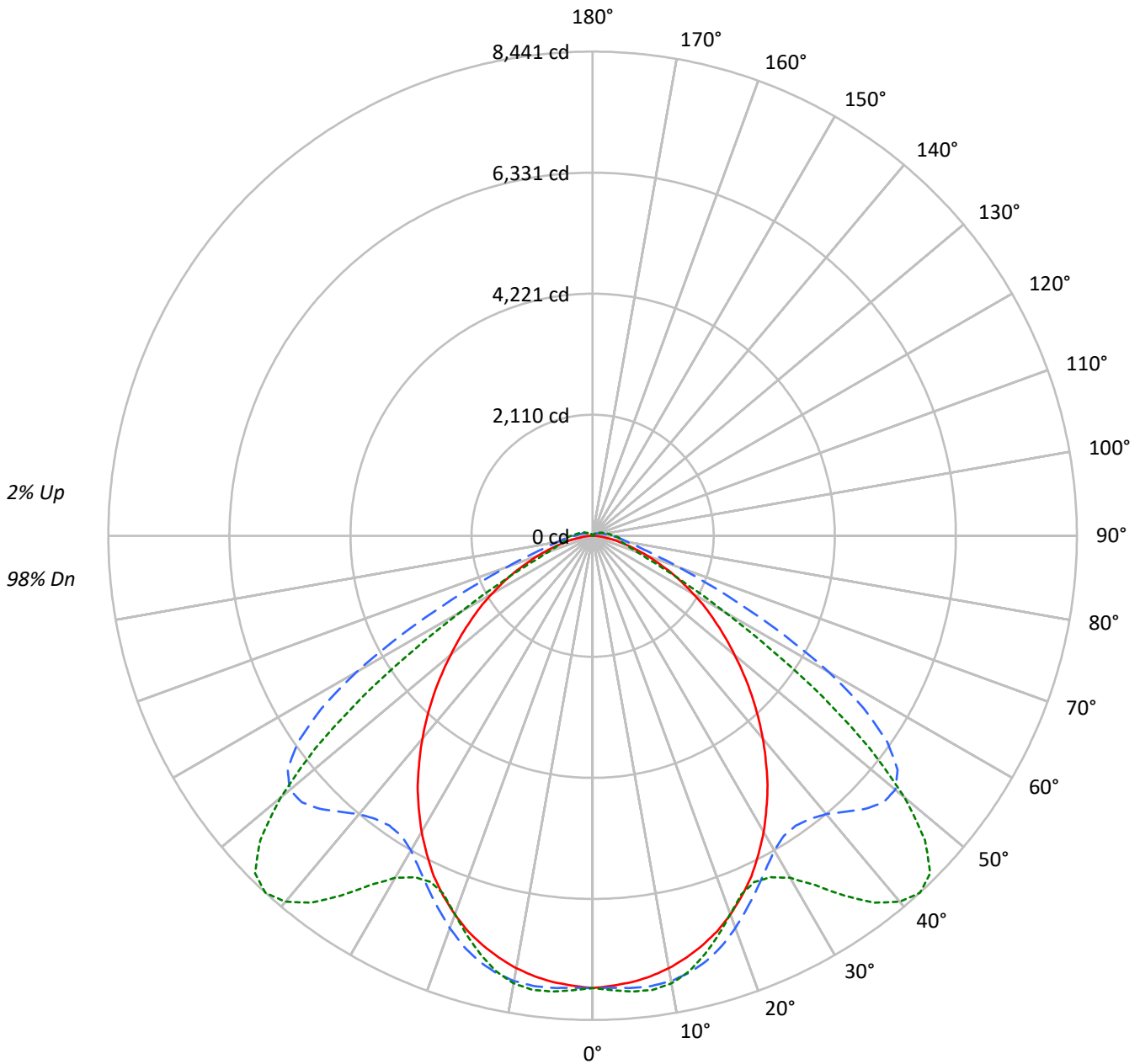
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23608.9 lumens
Efficiency: N/A
Efficacy: 171.1 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									
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	105	105	105	100	100	100	98																			
1	109	104	100	96	106	102	98	95	97	94	91	93	90	88	89	87	85	83																			
2	99	91	85	79	96	89	83	78	85	80	76	82	77	74	78	75	72	70																			
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	69	65	61	59																			
4	83	71	62	56	80	69	61	55	67	60	54	64	58	53	62	57	52	50																			
5	76	63	54	48	74	62	54	47	60	52	47	57	51	46	55	50	45	43																			
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	38																			
7	65	51	43	36	63	50	42	36	49	41	36	47	40	35	45	40	35	33																			
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29																			
9	56	43	34	29	55	42	34	29	41	34	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	39	31	26	38	31	26	36	30	26	35	30	25	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13467	13467	13467
5°	13342	13449	13555
10°	13174	13428	13505
15°	12918	13206	13007
20°	12566	12752	12307
25°	12094	12202	11995
30°	11468	11794	12834
35°	10753	12012	14924
40°	9923	13009	17133
45°	9056	14756	18270
50°	8151	16317	16846
55°	7301	16296	12730
60°	6436	13786	7677
65°	5521	9519	4569
70°	4486	6153	3219
75°	3413	4408	2877
80°	2449	3870	3053
85°	1663	4250	4246



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	753.5	3.2
10°-20°	2133.7	9.0
20°-30°	3122.3	13.2
30°-40°	4054.9	17.2
40°-50°	4951.6	21.0
50°-60°	4360.6	18.5
60°-70°	2272.4	9.6
70°-80°	974.5	4.1
80°-90°	468.0	2.0
90°-100°	219.9	0.9
100°-110°	136.6	0.6
110°-120°	80.8	0.3
120°-130°	43.9	0.2
130°-140°	22.0	0.1
140°-150°	10.6	0.0
150°-160°	3.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	6009.5	25.5
0°-40°	10064.4	42.6
0°-60°	19376.6	82.1
0°-90°	23091.4	97.8
90°-120°	437.3	1.9
90°-150°	513.9	2.2
90°-180°	518.0	2.2
0°-180°	23608.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7885	7885	7885	7885	7885	
5°	7812	7871	7914	7984	7975	741
15°	7392	7599	7672	7614	7553	2081
25°	6550	6900	6783	6655	6662	3006
35°	5316	5878	6172	7198	7659	3313
45°	3914	4925	6732	8150	8320	3018
55°	2606	4314	6269	5496	4886	2339
65°	1495	2989	2870	1596	1373	1479
75°	602	1398	922	631	599	657
85°	128	498	470	459	464	142
90°	2	180	310	354	362	9
95°	3	106	247	289	298	3
105°	7	60	160	192	196	7
115°	10	34	99	121	124	11
125°	12	17	58	75	77	10
135°	10	10	27	46	48	8
145°	14	10	12	22	26	8
155°	14	14	10	10	10	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°	7885.0	7885.0	7885.0	7885.0	7885.0
2.5°	7851.0	7885.0	7886.7	7934.3	7929.2
5°	7811.8	7871.4	7913.9	7983.6	7975.1
7.5°	7747.2	7840.7	7915.6	7992.1	7985.3
10°	7655.3	7782.9	7881.6	7944.5	7924.1
12.5°	7536.2	7704.6	7801.6	7815.2	7776.1
15°	7391.6	7599.2	7672.3	7614.5	7553.2
17.5°	7228.3	7471.6	7497.1	7371.2	7294.7
20°	7024.2	7301.5	7276.0	7102.4	7017.4
22.5°	6797.9	7114.3	7032.7	6850.7	6769.0
25°	6549.5	6900.0	6782.6	6655.0	6661.8
27.5°	6258.6	6656.7	6542.7	6600.6	6709.5
30°	5962.6	6401.5	6331.8	6668.6	6883.0
32.5°	5637.7	6139.6	6202.5	6867.7	7218.1
35°	5316.2	5877.6	6171.9	7197.7	7658.7
37.5°	4960.6	5612.2	6221.2	7578.8	8061.9
40°	4615.3	5353.6	6333.5	7920.7	8329.0
42.5°	4263.2	5122.3	6522.3	8123.1	8441.3
45°	3914.4	4924.9	6731.6	8150.4	8320.5
47.5°	3565.7	4758.2	6876.2	7934.3	7856.1
50°	3228.8	4610.2	6886.4	7415.4	7095.6
52.5°	2914.1	4474.1	6699.3	6588.7	6091.9
55°	2606.2	4314.2	6268.9	5496.5	4885.8
57.5°	2325.5	4093.0	5605.4	4322.7	3655.8
60°	2027.8	3793.6	4748.0	3162.5	2636.8
62.5°	1753.9	3421.1	3786.8	2201.3	1895.1
65°	1495.3	2989.0	2869.9	1595.7	1372.9
67.5°	1221.4	2541.6	2118.0	1163.6	1020.7
70°	1007.1	2126.5	1577.0	905.0	821.7
72.5°	787.6	1731.8	1178.9	734.9	689.0
75°	602.2	1398.4	922.0	631.1	598.8
77.5°	444.0	1105.8	741.7	558.0	527.4
80°	311.3	871.0	620.9	498.4	486.5
82.5°	209.2	673.7	529.1	474.6	476.3
85°	127.6	498.4	469.5	459.3	464.4
87.5°	61.2	353.8	403.2	418.5	423.6
90°	1.7	180.3	309.6	353.8	362.4
92.5°	0.0	137.8	272.2	316.4	324.9
95°	3.4	105.5	246.7	289.2	297.7
97.5°	3.4	86.8	221.2	265.4	270.5
100°	5.1	74.9	197.3	239.9	245.0
102.5°	5.1	66.3	176.9	214.3	217.8
105°	6.8	59.5	159.9	192.2	195.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	10.2	40.8	112.3	136.1	139.5
115°	10.2	34.0	98.7	120.8	124.2
117.5°	11.9	30.6	86.8	107.2	108.9
120°	11.9	25.5	74.9	95.3	97.0
122.5°	11.9	20.4	66.3	85.1	86.8
125°	11.9	17.0	57.8	74.9	76.6
127.5°	10.2	11.9	49.3	66.3	68.0
130°	10.2	10.2	40.8	57.8	61.2
132.5°	10.2	10.2	34.0	51.0	54.4
135°	10.2	10.2	27.2	45.9	47.6
137.5°	10.2	10.2	22.1	39.1	42.5
140°	10.2	10.2	17.0	34.0	35.7
142.5°	11.9	10.2	15.3	28.9	30.6
145°	13.6	10.2	11.9	22.1	25.5
147.5°	13.6	11.9	11.9	18.7	20.4
150°	13.6	13.6	10.2	13.6	17.0
152.5°	13.6	13.6	10.2	10.2	13.6
155°	13.6	13.6	10.2	10.2	10.2
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°	8.5	52.7	142.9	171.8	175.2
110°	8.5	45.9	125.9	153.1	156.5



(END OF REPORT)