

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: P830154

Luminaire Tested: **OHBL-24SE-W-UNV-L750-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830154
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-L750-CD
Description: 24000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 5000K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

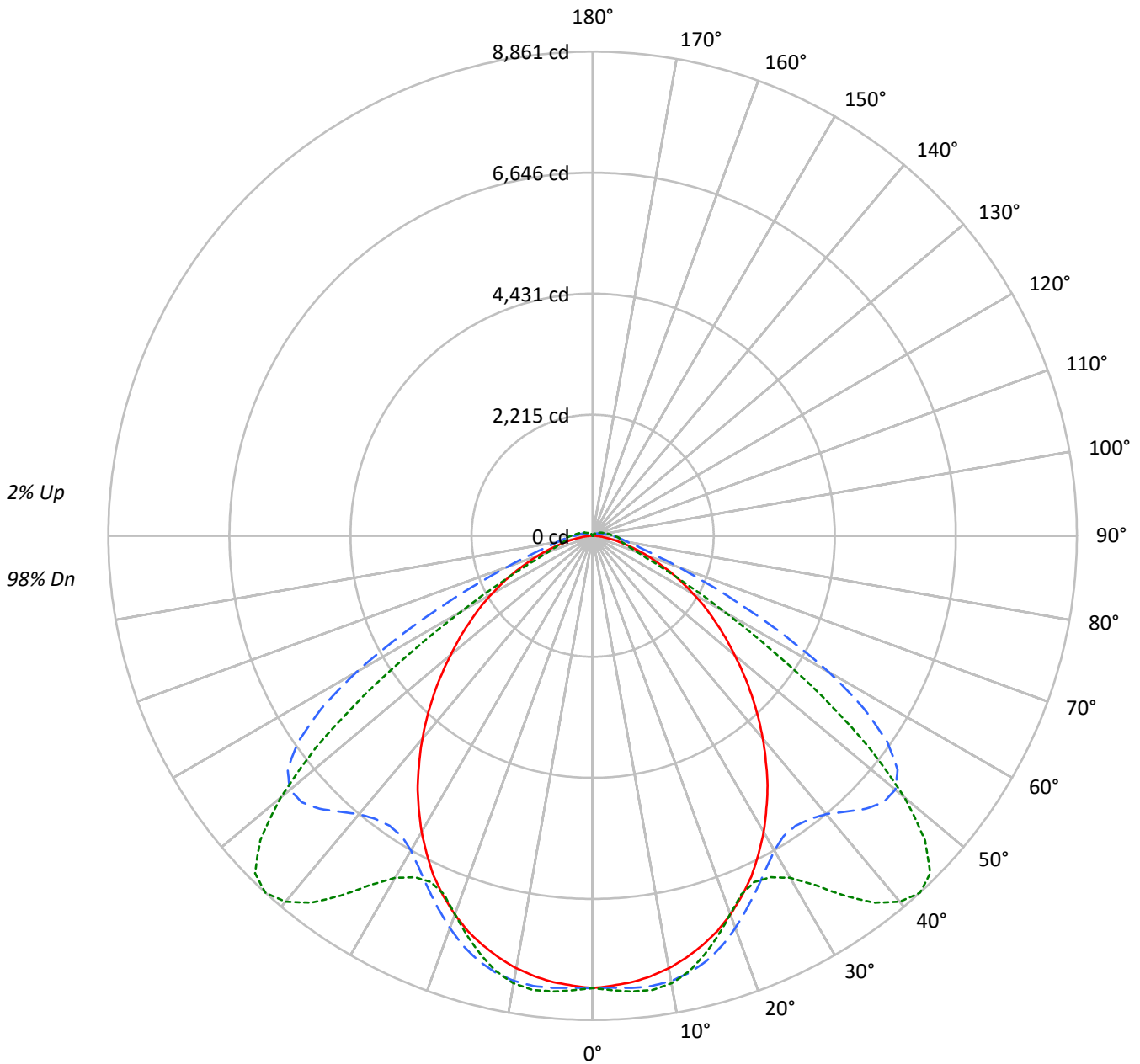
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24783.0 lumens
Efficiency: N/A
Efficacy: 179.6 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°	14137	14137	14137
5°	14006	14117	14229
10°	13830	14096	14176
15°	13560	13863	13654
20°	13190	13386	12919
25°	12696	12809	12592
30°	12038	12380	13472
35°	11287	12609	15666
40°	10417	13656	17985
45°	9506	15490	19179
50°	8557	17128	17684
55°	7664	17106	13363
60°	6755	14471	8059
65°	5796	9992	4796
70°	4709	6459	3379
75°	3583	4628	3021
80°	2571	4063	3205
85°	1745	4462	4458



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	791.0	3.2
10°-20°	2239.8	9.0
20°-30°	3277.5	13.2
30°-40°	4256.6	17.2
40°-50°	5197.8	21.0
50°-60°	4577.5	18.5
60°-70°	2385.4	9.6
70°-80°	1022.9	4.1
80°-90°	491.2	2.0
90°-100°	230.8	0.9
100°-110°	143.5	0.6
110°-120°	84.8	0.3
120°-130°	46.1	0.2
130°-140°	23.1	0.1
140°-150°	11.1	0.0
150°-160°	3.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	6308.3	25.5
0°-40°	10564.9	42.6
0°-60°	20340.2	82.1
0°-90°	24239.7	97.8
90°-120°	459.1	1.9
90°-150°	539.4	2.2
90°-180°	543.0	2.2
0°-180°	24783.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8277	8277	8277	8277	8277	
5°	8200	8263	8307	8381	8372	778
15°	7759	7977	8054	7993	7929	2185
25°	6875	7243	7120	6986	6993	3155
35°	5580	6170	6479	7556	8040	3478
45°	4109	5170	7066	8556	8734	3168
55°	2736	4529	6581	5770	5129	2455
65°	1570	3138	3013	1675	1441	1553
75°	632	1468	968	662	629	689
85°	134	523	493	482	488	149
90°	2	189	325	371	380	9
95°	4	111	259	304	312	3
105°	7	62	168	202	205	8
115°	11	36	104	127	130	11
125°	12	18	61	79	80	11
135°	11	11	29	48	50	8
145°	14	11	12	23	27	8
155°	14	14	11	11	11	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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CATALOG NUMBER: OHBL-24SE-W-UNV-L750-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8277.1	8277.1	8277.1	8277.1	8277.1
2.5°	8241.4	8277.1	8278.9	8328.9	8323.5
5°	8200.3	8262.8	8307.4	8380.6	8371.7
7.5°	8132.4	8230.6	8309.2	8389.6	8382.4
10°	8036.0	8169.9	8273.5	8339.6	8318.1
12.5°	7911.0	8087.8	8189.6	8203.9	8162.8
15°	7759.2	7977.1	8053.8	7993.1	7928.8
17.5°	7587.8	7843.1	7869.9	7737.8	7657.4
20°	7373.5	7664.5	7637.8	7455.6	7366.3
22.5°	7136.0	7468.1	7382.4	7191.3	7105.6
25°	6875.2	7243.1	7119.9	6986.0	6993.1
27.5°	6569.9	6987.7	6868.1	6928.8	7043.1
30°	6259.1	6719.9	6646.7	7000.2	7225.2
32.5°	5918.1	6444.9	6510.9	7209.2	7577.0
35°	5580.5	6169.9	6478.8	7555.6	8039.6
37.5°	5207.3	5891.3	6530.6	7955.6	8462.8
40°	4844.8	5619.8	6648.4	8314.6	8743.2
42.5°	4475.2	5377.0	6846.7	8527.1	8861.0
45°	4109.1	5169.8	7066.3	8555.7	8734.2
47.5°	3743.0	4994.8	7218.1	8328.9	8246.7
50°	3389.4	4839.5	7228.8	7784.2	7448.5
52.5°	3059.0	4696.6	7032.4	6916.3	6394.9
55°	2735.8	4528.7	6580.6	5769.8	5128.7
57.5°	2441.2	4296.6	5884.1	4537.7	3837.6
60°	2128.6	3982.3	4984.1	3319.8	2768.0
62.5°	1841.1	3591.2	3975.1	2310.8	1989.4
65°	1569.7	3137.6	3012.6	1675.1	1441.1
67.5°	1282.2	2667.9	2223.3	1221.5	1071.5
70°	1057.2	2232.2	1655.4	950.0	862.5
72.5°	826.8	1817.9	1237.5	771.5	723.2
75°	632.2	1467.9	967.9	662.5	628.6
77.5°	466.1	1160.8	778.6	585.7	553.6
80°	326.8	914.3	651.8	523.2	510.7
82.5°	219.7	707.2	555.4	498.2	500.0
85°	133.9	523.2	492.9	482.2	487.5
87.5°	64.3	371.4	423.2	439.3	444.7
90°	1.8	189.3	325.0	371.4	380.4
92.5°	0.0	144.6	285.7	332.2	341.1
95°	3.6	110.7	258.9	303.6	312.5
97.5°	3.6	91.1	232.2	278.6	283.9
100°	5.4	78.6	207.1	251.8	257.2
102.5°	5.4	69.6	185.7	225.0	228.6
105°	7.1	62.5	167.9	201.8	205.4



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CATALOG NUMBER: OHBL-24SE-W-UNV-L750-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	10.7	42.9	117.9	142.9	146.4
115°	10.7	35.7	103.6	126.8	130.4
117.5°	12.5	32.1	91.1	112.5	114.3
120°	12.5	26.8	78.6	100.0	101.8
122.5°	12.5	21.4	69.6	89.3	91.1
125°	12.5	17.9	60.7	78.6	80.4
127.5°	10.7	12.5	51.8	69.6	71.4
130°	10.7	10.7	42.9	60.7	64.3
132.5°	10.7	10.7	35.7	53.6	57.1
135°	10.7	10.7	28.6	48.2	50.0
137.5°	10.7	10.7	23.2	41.1	44.6
140°	10.7	10.7	17.9	35.7	37.5
142.5°	12.5	10.7	16.1	30.4	32.1
145°	14.3	10.7	12.5	23.2	26.8
147.5°	14.3	12.5	12.5	19.6	21.4
150°	14.3	14.3	10.7	14.3	17.9
152.5°	14.3	14.3	10.7	10.7	14.3
155°	14.3	14.3	10.7	10.7	10.7
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°	8.9	55.4	150.0	180.4	183.9
110°	8.9	48.2	132.1	160.7	164.3



(END OF REPORT)