

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: P830160

Luminaire Tested: **OHBL-24SE-W-UNV-L935-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830160
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-L935-CD
Description: 24000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 3500K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

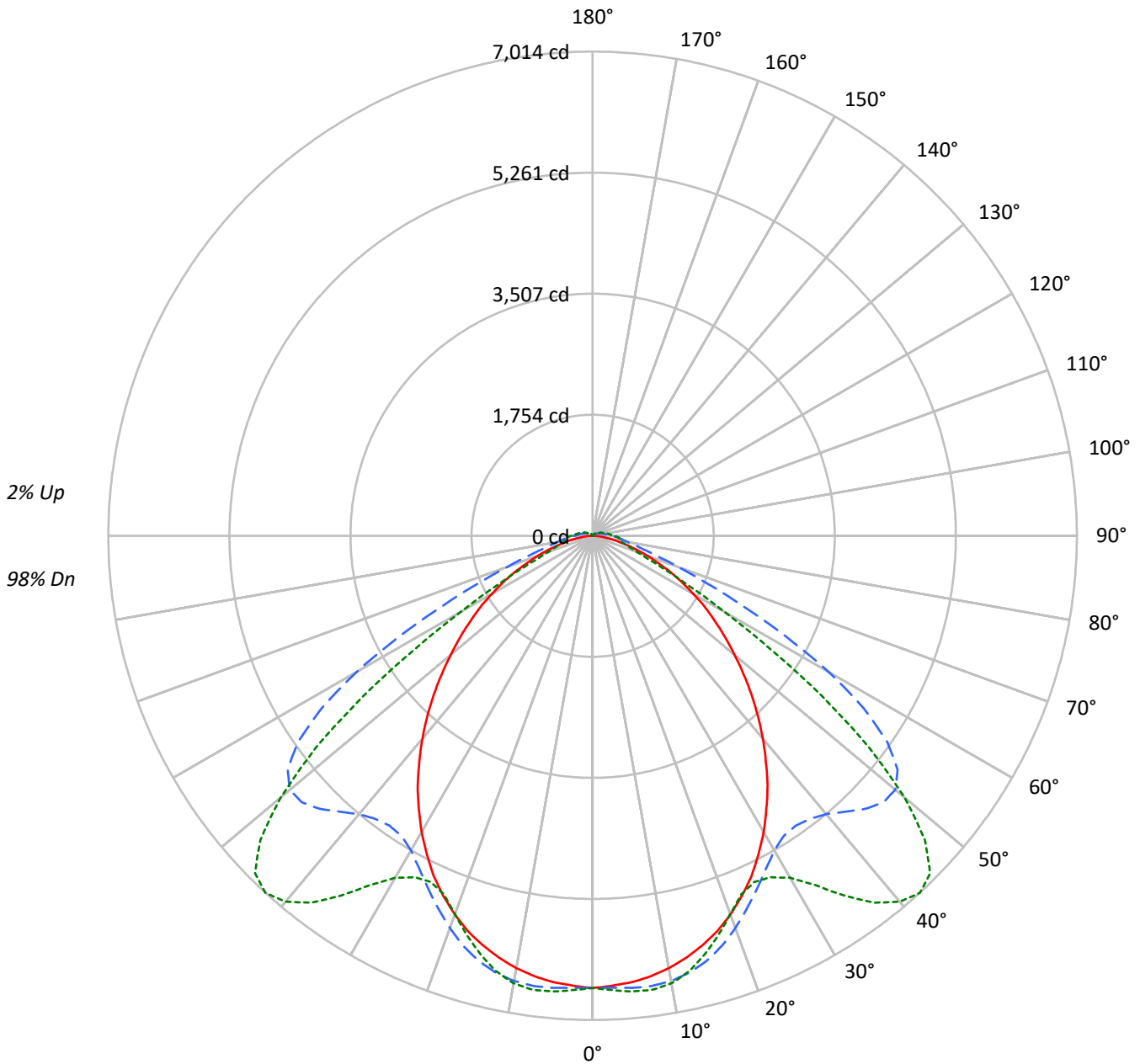
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19617.0 lumens
Efficiency: N/A
Efficacy: 142.2 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°	11190	11190	11190
5°	11086	11175	11263
10°	10947	11158	11221
15°	10733	10973	10808
20°	10441	10596	10226
25°	10049	10139	9967
30°	9529	9800	10664
35°	8935	9981	12400
40°	8245	10809	14236
45°	7525	12261	15181
50°	6773	13558	13998
55°	6066	13541	10578
60°	5347	11455	6379
65°	4588	7909	3796
70°	3727	5112	2674
75°	2836	3663	2391
80°	2036	3216	2537
85°	1381	3532	3529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	626.1	3.2
10°-20°	1772.9	9.0
20°-30°	2594.3	13.2
30°-40°	3369.3	17.2
40°-50°	4114.3	21.0
50°-60°	3623.3	18.5
60°-70°	1888.1	9.6
70°-80°	809.7	4.1
80°-90°	388.9	2.0
90°-100°	182.7	0.9
100°-110°	113.5	0.6
110°-120°	67.1	0.3
120°-130°	36.5	0.2
130°-140°	18.3	0.1
140°-150°	8.8	0.0
150°-160°	3.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4993.3	25.5
0°-40°	8362.6	42.6
0°-60°	16100.3	82.1
0°-90°	19186.9	97.8
90°-120°	363.4	1.9
90°-150°	427.0	2.2
90°-180°	430.0	2.2
0°-180°	19617.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6552	6552	6552	6552	6552	
5°	6491	6540	6576	6634	6627	616
15°	6142	6314	6375	6327	6276	1729
25°	5442	5733	5636	5530	5535	2497
35°	4417	4884	5128	5981	6364	2753
45°	3252	4092	5593	6772	6914	2508
55°	2166	3585	5209	4567	4060	1944
65°	1242	2484	2385	1326	1141	1229
75°	500	1162	766	524	498	546
85°	106	414	390	382	386	118
90°	1	150	257	294	301	7
95°	3	88	205	240	247	2
105°	6	50	133	160	163	6
115°	8	28	82	100	103	9
125°	10	14	48	62	64	8
135°	8	8	23	38	40	7
145°	11	8	10	18	21	7
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-L935-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6551.7	6551.7	6551.7	6551.7	6551.7
2.5°	6523.4	6551.7	6553.1	6592.7	6588.5
5°	6490.9	6540.4	6575.7	6633.7	6626.6
7.5°	6437.2	6515.0	6577.2	6640.8	6635.1
10°	6360.9	6466.9	6548.9	6601.2	6584.2
12.5°	6261.9	6401.9	6482.5	6493.8	6461.3
15°	6141.8	6314.2	6375.0	6327.0	6276.1
17.5°	6006.1	6208.2	6229.4	6124.8	6061.2
20°	5836.5	6066.9	6045.7	5901.5	5830.8
22.5°	5648.5	5911.4	5843.5	5692.3	5624.4
25°	5442.1	5733.3	5635.8	5529.7	5535.4
27.5°	5200.4	5531.1	5436.4	5484.5	5575.0
30°	4954.4	5319.1	5261.2	5541.0	5719.1
32.5°	4684.4	5101.4	5153.7	5706.4	5997.6
35°	4417.3	4883.8	5128.3	5980.7	6363.7
37.5°	4121.9	4663.2	5169.3	6297.3	6698.7
40°	3834.9	4448.4	5262.6	6581.4	6920.7
42.5°	3542.3	4256.1	5419.5	6749.6	7013.9
45°	3252.5	4092.2	5593.3	6772.2	6913.6
47.5°	2962.8	3953.6	5713.5	6592.7	6527.7
50°	2682.9	3830.7	5722.0	6161.6	5895.8
52.5°	2421.4	3717.6	5566.5	5474.6	5061.9
55°	2165.5	3584.7	5208.9	4567.1	4059.7
57.5°	1932.3	3401.0	4657.6	3591.8	3037.7
60°	1684.9	3152.2	3945.2	2627.8	2191.0
62.5°	1457.4	2842.6	3146.5	1829.1	1574.7
65°	1242.5	2483.6	2384.6	1325.9	1140.7
67.5°	1014.9	2111.8	1759.8	966.9	848.1
70°	836.8	1766.9	1310.3	752.0	682.7
72.5°	654.5	1439.0	979.6	610.6	572.5
75°	500.4	1161.9	766.1	524.4	497.6
77.5°	368.9	918.8	616.3	463.6	438.2
80°	258.7	723.7	515.9	414.2	404.3
82.5°	173.9	559.8	439.6	394.4	395.8
85°	106.0	414.2	390.1	381.7	385.9
87.5°	50.9	294.0	335.0	347.7	352.0
90°	1.4	149.8	257.3	294.0	301.1
92.5°	0.0	114.5	226.2	262.9	270.0
95°	2.8	87.6	205.0	240.3	247.4
97.5°	2.8	72.1	183.8	220.5	224.8
100°	4.2	62.2	164.0	199.3	203.5
102.5°	4.2	55.1	147.0	178.1	180.9
105°	5.7	49.5	132.9	159.7	162.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	8.5	33.9	93.3	113.1	115.9
115°	8.5	28.3	82.0	100.4	103.2
117.5°	9.9	25.4	72.1	89.1	90.5
120°	9.9	21.2	62.2	79.2	80.6
122.5°	9.9	17.0	55.1	70.7	72.1
125°	9.9	14.1	48.1	62.2	63.6
127.5°	8.5	9.9	41.0	55.1	56.5
130°	8.5	8.5	33.9	48.1	50.9
132.5°	8.5	8.5	28.3	42.4	45.2
135°	8.5	8.5	22.6	38.2	39.6
137.5°	8.5	8.5	18.4	32.5	35.3
140°	8.5	8.5	14.1	28.3	29.7
142.5°	9.9	8.5	12.7	24.0	25.4
145°	11.3	8.5	9.9	18.4	21.2
147.5°	11.3	9.9	9.9	15.5	17.0
150°	11.3	11.3	8.5	11.3	14.1
152.5°	11.3	11.3	8.5	8.5	11.3
155°	11.3	11.3	8.5	8.5	8.5
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°	7.1	43.8	118.7	142.8	145.6
110°	7.1	38.2	104.6	127.2	130.0



(END OF REPORT)