

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: P830100

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830100
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-24SE-A-UNV-L935-CD
Description: 24000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 3500K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

Summary

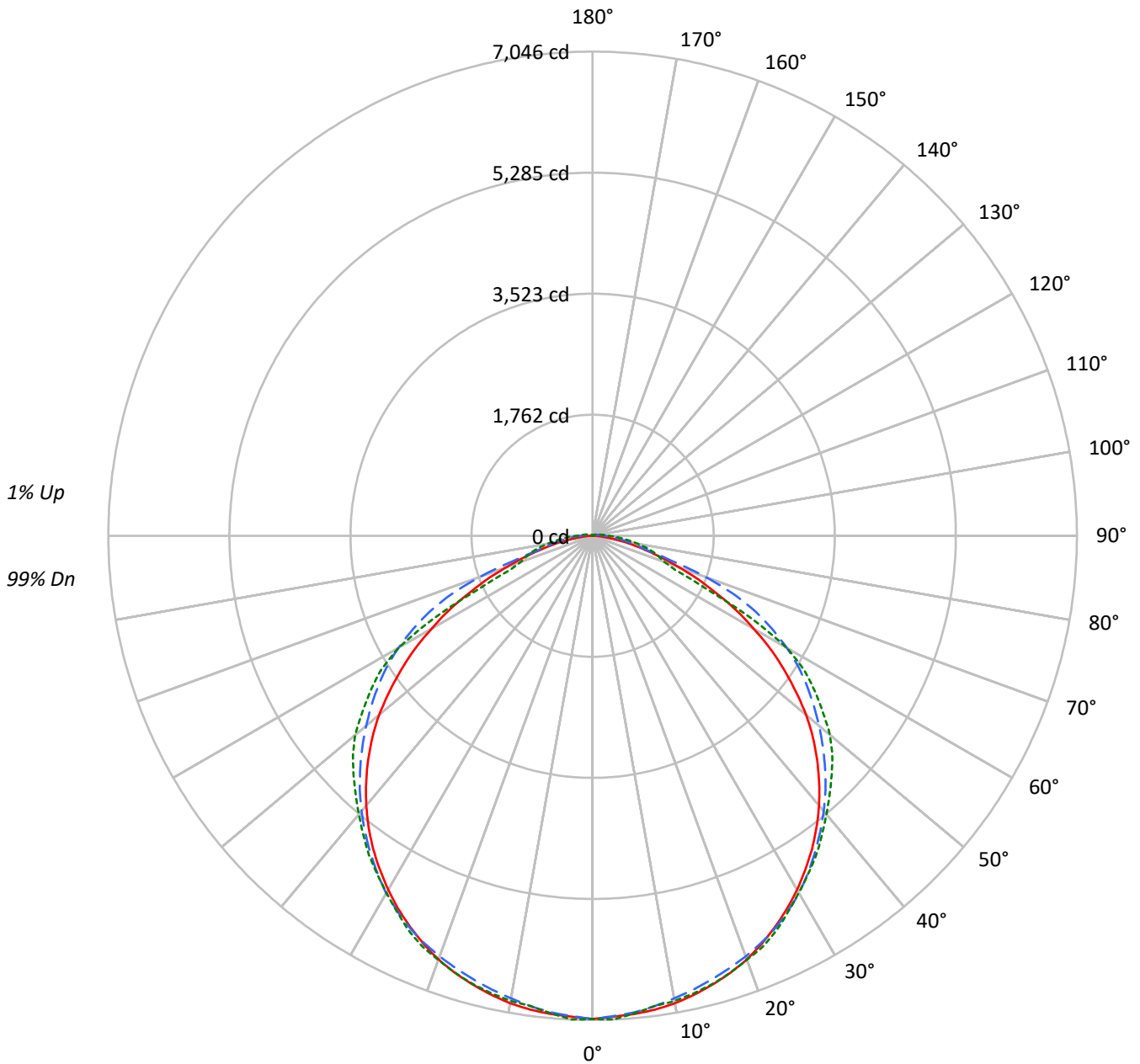
Lumens per Lamp: N/A
Luminaire Lumens: 19875.1 lumens
Efficiency: N/A
Efficacy: 144.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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

TEST NUMBER: P830100

CATALOG NUMBER: OHBL-24SE-A-UNV-L935-CD

Luminous Intensity Polar Plot





TEST NUMBER: P830100

CATALOG NUMBER: OHBL-24SE-A-UNV-L935-CD

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	106	106	106	101	101	101					99															
1	109	104	100	96	106	102	98	95	97	94	91	93	91	88	90	87	86					83															
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72					70															
3	91	80	72	66	88	79	71	65	75	69	64	72	67	63	70	65	61					59															
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	62	57	53					51															
5	76	64	55	48	74	62	54	48	60	53	47	58	52	46	56	50	46					44															
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40					38															
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36					34															
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	42	36	32					30															
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29					27															
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26					24															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12010	12010	12010
5°	11932	11830	11853
10°	11888	11646	11714
15°	11813	11507	11628
20°	11737	11417	11517
25°	11596	11326	11407
30°	11441	11187	11183
35°	11257	10968	11055
40°	11018	10743	10884
45°	10686	10482	10801
50°	10236	10186	10703
55°	9522	9893	10290
60°	8587	9468	9497
65°	7366	8687	6005
70°	5933	6768	4341
75°	4448	4006	4387
80°	3096	3315	4160
85°	1762	3010	3849



TEST NUMBER: P830100

CATALOG NUMBER: OHBL-24SE-A-UNV-L935-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	663.0	3.3
10°-20°	1901.3	9.6
20°-30°	2903.8	14.6
30°-40°	3523.3	17.7
40°-50°	3692.8	18.6
50°-60°	3346.2	16.8
60°-70°	2243.5	11.3
70°-80°	1007.4	5.1
80°-90°	365.6	1.8
90°-100°	110.0	0.6
100°-110°	51.9	0.3
110°-120°	26.0	0.1
120°-130°	14.4	0.1
130°-140°	9.9	0.0
140°-150°	6.7	0.0
150°-160°	4.9	0.0
160°-170°	3.2	0.0
170°-180°	1.0	0.0
0°-30°	5468.1	27.5
0°-40°	8991.5	45.2
0°-60°	16030.5	80.7
0°-90°	19647.0	98.9
90°-120°	188.0	0.9
90°-150°	218.9	1.1
90°-180°	228.0	1.1
0°-180°	19875.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7032	7032	7032	7032	7032	
5°	6986	7010	6962	6983	6974	664
15°	6759	6733	6685	6744	6752	1908
25°	6279	6252	6296	6354	6335	2894
35°	5566	5579	5636	5696	5673	3479
45°	4619	4694	4782	4904	4919	3558
55°	3399	3563	3806	3958	3949	3034
65°	1995	2307	2619	2210	1805	1988
75°	785	1139	838	857	913	858
85°	135	259	332	402	421	165
90°	1	86	172	216	226	8
95°	1	54	118	143	147	1
105°	4	23	58	70	73	5
115°	8	12	30	38	40	8
125°	7	8	18	21	22	7
135°	9	10	11	16	17	7
145°	9	10	10	11	12	6
155°	10	11	11	11	10	5
165°	11	11	11	11	11	3
175°	11	11	10	9	9	1
180°	10	10	10	10	10	



TEST NUMBER: P830100

CATALOG NUMBER: OHBL-24SE-A-UNV-L935-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7031.8	7031.8	7031.8	7031.8	7031.8
2.5°	7003.3	7032.8	6996.2	7035.9	7046.0
5°	6986.0	7010.4	6961.6	6983.0	6973.8
7.5°	6954.5	6962.7	6904.7	6922.0	6903.7
10°	6907.7	6903.7	6835.6	6869.1	6873.2
12.5°	6838.6	6826.4	6765.4	6816.2	6817.3
15°	6759.3	6732.9	6685.1	6744.1	6752.2
17.5°	6667.8	6633.2	6601.7	6678.0	6665.8
20°	6561.0	6520.4	6514.3	6597.6	6567.1
22.5°	6428.9	6397.3	6411.6	6490.9	6471.6
25°	6279.4	6252.0	6295.7	6353.6	6335.3
27.5°	6121.8	6105.5	6155.4	6200.1	6164.5
30°	5949.0	5939.8	6005.9	6042.5	5997.8
32.5°	5760.9	5763.9	5827.0	5876.8	5835.1
35°	5565.6	5578.9	5635.8	5695.8	5673.4
37.5°	5351.1	5380.6	5437.5	5505.7	5482.3
40°	5124.4	5167.1	5230.1	5312.5	5291.1
42.5°	4879.3	4933.2	5014.6	5106.1	5104.0
45°	4619.1	4694.3	4781.7	4903.7	4919.0
47.5°	4348.6	4433.0	4543.8	4706.5	4729.9
50°	4054.8	4160.5	4298.8	4494.0	4508.2
52.5°	3727.4	3871.8	4054.8	4241.9	4224.6
55°	3399.0	3562.7	3805.7	3958.2	3949.0
57.5°	3071.6	3255.6	3550.5	3659.3	3658.2
60°	2705.6	2938.4	3260.7	3343.0	3261.7
62.5°	2367.0	2617.1	2951.6	2891.6	2613.0
65°	1994.8	2307.0	2619.1	2210.4	1804.7
67.5°	1664.4	1989.8	2224.6	1513.9	1296.3
70°	1331.9	1690.8	1734.6	1123.5	1108.2
72.5°	1037.1	1419.4	1196.7	961.8	1010.6
75°	784.9	1138.8	837.8	857.1	913.0
77.5°	572.4	874.4	651.7	751.4	797.1
80°	393.5	619.2	531.8	631.4	662.9
82.5°	247.1	408.7	426.0	508.4	540.9
85°	135.2	259.3	332.5	401.6	420.9
87.5°	55.9	156.6	254.2	310.1	326.4
90°	1.0	86.4	171.8	215.5	225.7
92.5°	1.0	66.1	140.3	173.9	181.0
95°	1.0	53.9	117.9	143.4	147.4
97.5°	2.0	42.7	98.6	119.0	123.0
100°	3.1	35.6	82.4	99.6	102.7
102.5°	4.1	28.5	69.1	83.4	86.4
105°	4.1	23.4	58.0	70.2	73.2



TEST NUMBER: P830100

CATALOG NUMBER: OHBL-24SE-A-UNV-L935-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	7.1	14.2	34.6	43.7	45.8
115°	8.1	12.2	29.5	37.6	39.7
117.5°	8.1	10.2	25.4	31.5	33.6
120°	8.1	9.2	22.4	27.5	28.5
122.5°	8.1	8.1	19.3	24.4	25.4
125°	7.1	8.1	18.3	21.4	22.4
127.5°	8.1	8.1	16.3	19.3	20.3
130°	8.1	9.2	14.2	18.3	18.3
132.5°	9.2	10.2	13.2	17.3	17.3
135°	9.2	10.2	11.2	16.3	17.3
137.5°	10.2	10.2	10.2	15.3	16.3
140°	10.2	10.2	9.2	13.2	14.2
142.5°	9.2	10.2	9.2	12.2	13.2
145°	9.2	10.2	10.2	11.2	12.2
147.5°	10.2	10.2	10.2	10.2	11.2
150°	10.2	10.2	10.2	10.2	10.2
152.5°	10.2	10.2	10.2	10.2	10.2
155°	10.2	11.2	11.2	11.2	10.2
157.5°	10.2	11.2	11.2	11.2	11.2
160°	10.2	11.2	11.2	11.2	11.2
162.5°	11.2	11.2	11.2	11.2	11.2
165°	11.2	11.2	11.2	11.2	11.2
167.5°	11.2	12.2	11.2	11.2	11.2
170°	11.2	11.2	11.2	10.2	10.2
172.5°	11.2	11.2	11.2	10.2	10.2
175°	11.2	11.2	10.2	9.2	9.2
177.5°	12.2	11.2	10.2	9.2	8.1
180°	10.2	10.2	10.2	10.2	10.2



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	5.1	19.3	49.8	60.0	62.0
110°	6.1	16.3	41.7	50.8	52.9



(END OF REPORT)