

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: P830098

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830098
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-L850-CD
Description: 24000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

Summary

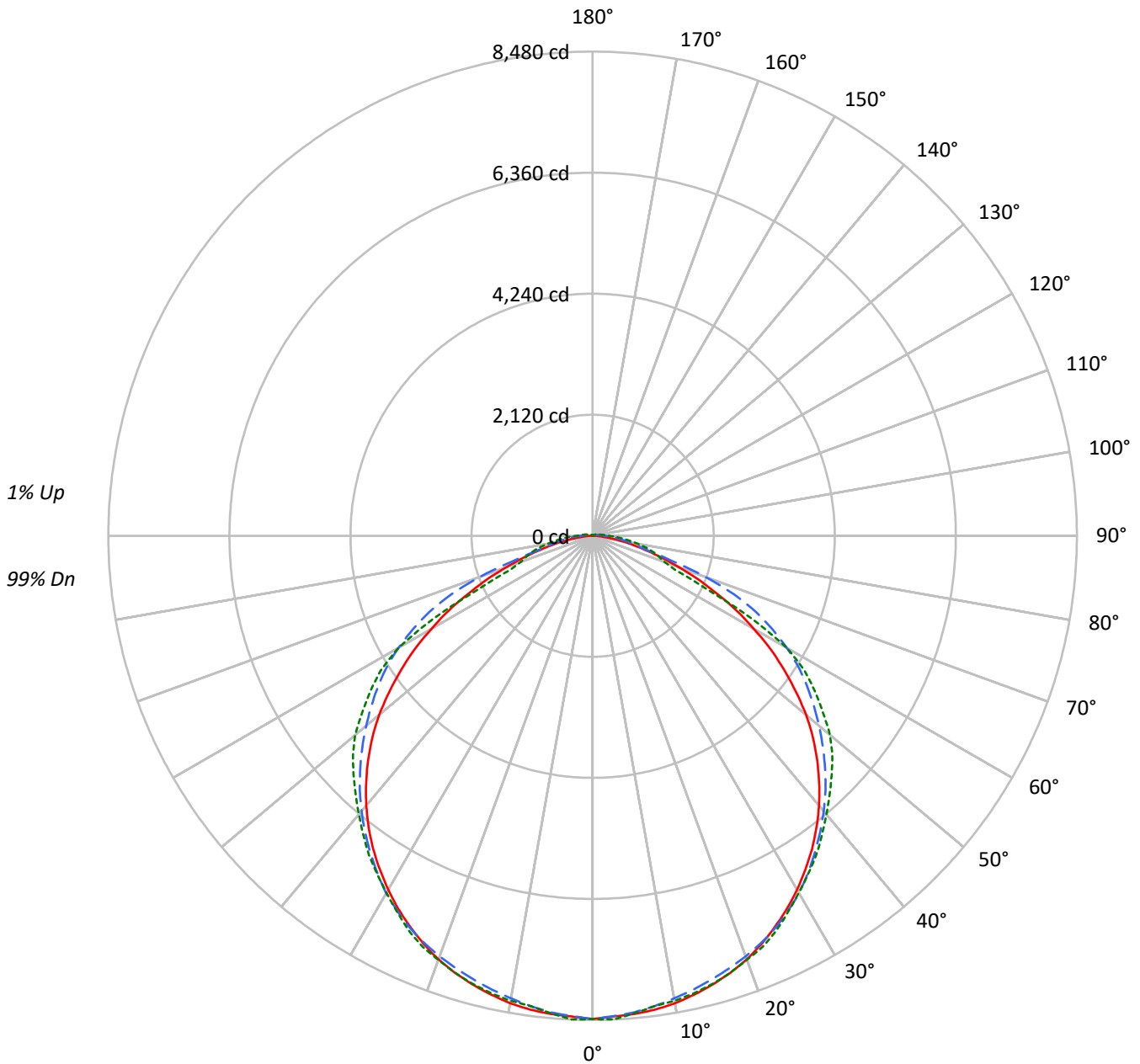
Lumens per Lamp: N/A
Luminaire Lumens: 23919.0 lumens
Efficiency: N/A
Efficacy: 173.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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: P830098

CATALOG NUMBER: OHBL-24SE-A-UNV-L850-CD

Luminous Intensity Polar Plot





TEST NUMBER: P830098

CATALOG NUMBER: OHBL-24SE-A-UNV-L850-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°	14454	14454	14454
5°	14359	14237	14265
10°	14307	14016	14097
15°	14216	13848	13994
20°	14125	13740	13861
25°	13955	13631	13728
30°	13769	13463	13458
35°	13548	13200	13305
40°	13260	12928	13098
45°	12860	12615	12999
50°	12319	12258	12881
55°	11459	11906	12383
60°	10334	11394	11429
65°	8864	10454	7227
70°	7140	8144	5225
75°	5353	4821	5280
80°	3726	3989	5007
85°	2120	3622	4632



TEST NUMBER: P830098

CATALOG NUMBER: OHBL-24SE-A-UNV-L850-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	797.9	3.3
10°-20°	2288.1	9.6
20°-30°	3494.7	14.6
30°-40°	4240.2	17.7
40°-50°	4444.2	18.6
50°-60°	4027.1	16.8
60°-70°	2700.0	11.3
70°-80°	1212.4	5.1
80°-90°	440.0	1.8
90°-100°	132.4	0.6
100°-110°	62.5	0.3
110°-120°	31.3	0.1
120°-130°	17.3	0.1
130°-140°	11.9	0.0
140°-150°	8.0	0.0
150°-160°	5.9	0.0
160°-170°	3.8	0.0
170°-180°	1.2	0.0
0°-30°	6580.7	27.5
0°-40°	10821.0	45.2
0°-60°	19292.3	80.7
0°-90°	23644.7	98.9
90°-120°	226.2	0.9
90°-150°	263.3	1.1
90°-180°	274.0	1.1
0°-180°	23919.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8463	8463	8463	8463	8463	
5°	8408	8437	8378	8404	8393	800
15°	8135	8103	8045	8116	8126	2297
25°	7557	7524	7577	7646	7624	3483
35°	6698	6714	6782	6855	6828	4186
45°	5559	5650	5755	5902	5920	4282
55°	4091	4288	4580	4764	4752	3651
65°	2401	2776	3152	2660	2172	2392
75°	945	1370	1008	1032	1099	1032
85°	163	312	400	483	507	199
90°	1	104	207	259	272	10
95°	1	65	142	172	177	2
105°	5	28	70	84	88	6
115°	10	15	36	45	48	9
125°	9	10	22	26	27	9
135°	11	12	14	20	21	9
145°	11	12	12	14	15	7
155°	12	14	14	14	12	6
165°	14	14	14	14	14	4
175°	14	14	12	11	11	1
180°	12	12	12	12	12	



TEST NUMBER: P830098

CATALOG NUMBER: OHBL-24SE-A-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8462.6	8462.6	8462.6	8462.6	8462.6
2.5°	8428.3	8463.8	8419.7	8467.5	8479.7
5°	8407.5	8436.9	8378.1	8403.8	8392.8
7.5°	8369.6	8379.4	8309.6	8330.4	8308.4
10°	8313.3	8308.4	8226.4	8266.8	8271.7
12.5°	8230.1	8215.4	8142.0	8203.2	8204.4
15°	8134.6	8102.8	8045.3	8116.3	8126.1
17.5°	8024.5	7982.9	7945.0	8036.7	8022.1
20°	7896.0	7847.1	7839.7	7940.1	7903.4
22.5°	7737.0	7699.0	7716.2	7811.6	7788.3
25°	7557.1	7524.0	7576.7	7646.4	7624.4
27.5°	7367.4	7347.8	7407.8	7461.6	7418.8
30°	7159.4	7148.4	7227.9	7272.0	7218.1
32.5°	6933.0	6936.7	7012.6	7072.5	7022.4
35°	6698.1	6714.0	6782.5	6854.7	6827.8
37.5°	6439.9	6475.4	6543.9	6625.9	6597.8
40°	6167.0	6218.4	6294.3	6393.4	6367.7
42.5°	5872.2	5937.0	6034.9	6145.0	6142.6
45°	5558.9	5649.5	5754.7	5901.5	5919.9
47.5°	5233.4	5335.0	5468.4	5664.1	5692.3
50°	4879.8	5007.1	5173.5	5408.4	5425.5
52.5°	4485.8	4659.5	4879.8	5104.9	5084.1
55°	4090.6	4287.6	4580.0	4763.6	4752.5
57.5°	3696.6	3918.0	4272.9	4403.8	4402.6
60°	3256.1	3536.3	3924.2	4023.3	3925.4
62.5°	2848.6	3149.6	3552.2	3480.0	3144.7
65°	2400.7	2776.4	3152.0	2660.2	2171.9
67.5°	2003.1	2394.6	2677.3	1822.0	1560.1
70°	1602.9	2034.9	2087.5	1352.1	1333.7
72.5°	1248.1	1708.2	1440.2	1157.5	1216.3
75°	944.6	1370.5	1008.3	1031.5	1098.8
77.5°	688.9	1052.3	784.3	904.3	959.3
80°	473.5	745.2	640.0	759.9	797.8
82.5°	297.3	491.9	512.7	611.8	651.0
85°	162.7	312.0	400.1	483.3	506.6
87.5°	67.3	188.4	305.9	373.2	392.8
90°	1.2	104.0	206.8	259.4	271.6
92.5°	1.2	79.5	168.9	209.2	217.8
95°	1.2	64.9	141.9	172.5	177.4
97.5°	2.4	51.4	118.7	143.2	148.1
100°	3.7	42.8	99.1	119.9	123.6
102.5°	4.9	34.3	83.2	100.3	104.0
105°	4.9	28.1	69.7	84.4	88.1



TEST NUMBER: P830098

CATALOG NUMBER: OHBL-24SE-A-UNV-L850-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	8.6	17.1	41.6	52.6	55.1
115°	9.8	14.7	35.5	45.3	47.7
117.5°	9.8	12.2	30.6	37.9	40.4
120°	9.8	11.0	26.9	33.0	34.3
122.5°	9.8	9.8	23.2	29.4	30.6
125°	8.6	9.8	22.0	25.7	26.9
127.5°	9.8	9.8	19.6	23.2	24.5
130°	9.8	11.0	17.1	22.0	22.0
132.5°	11.0	12.2	15.9	20.8	20.8
135°	11.0	12.2	13.5	19.6	20.8
137.5°	12.2	12.2	12.2	18.4	19.6
140°	12.2	12.2	11.0	15.9	17.1
142.5°	11.0	12.2	11.0	14.7	15.9
145°	11.0	12.2	12.2	13.5	14.7
147.5°	12.2	12.2	12.2	12.2	13.5
150°	12.2	12.2	12.2	12.2	12.2
152.5°	12.2	12.2	12.2	12.2	12.2
155°	12.2	13.5	13.5	13.5	12.2
157.5°	12.2	13.5	13.5	13.5	13.5
160°	12.2	13.5	13.5	13.5	13.5
162.5°	13.5	13.5	13.5	13.5	13.5
165°	13.5	13.5	13.5	13.5	13.5
167.5°	13.5	14.7	13.5	13.5	13.5
170°	13.5	13.5	13.5	12.2	12.2
172.5°	13.5	13.5	13.5	12.2	12.2
175°	13.5	13.5	12.2	11.0	11.0
177.5°	14.7	13.5	12.2	11.0	9.8
180°	12.2	12.2	12.2	12.2	12.2



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	6.1	23.2	60.0	72.2	74.6
110°	7.3	19.6	50.2	61.2	63.6



(END OF REPORT)