

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: P830101

Luminaire Tested: **OHBL-24SE-A-UNV-L940-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830101
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-L940-CD
Description: 24000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

Summary

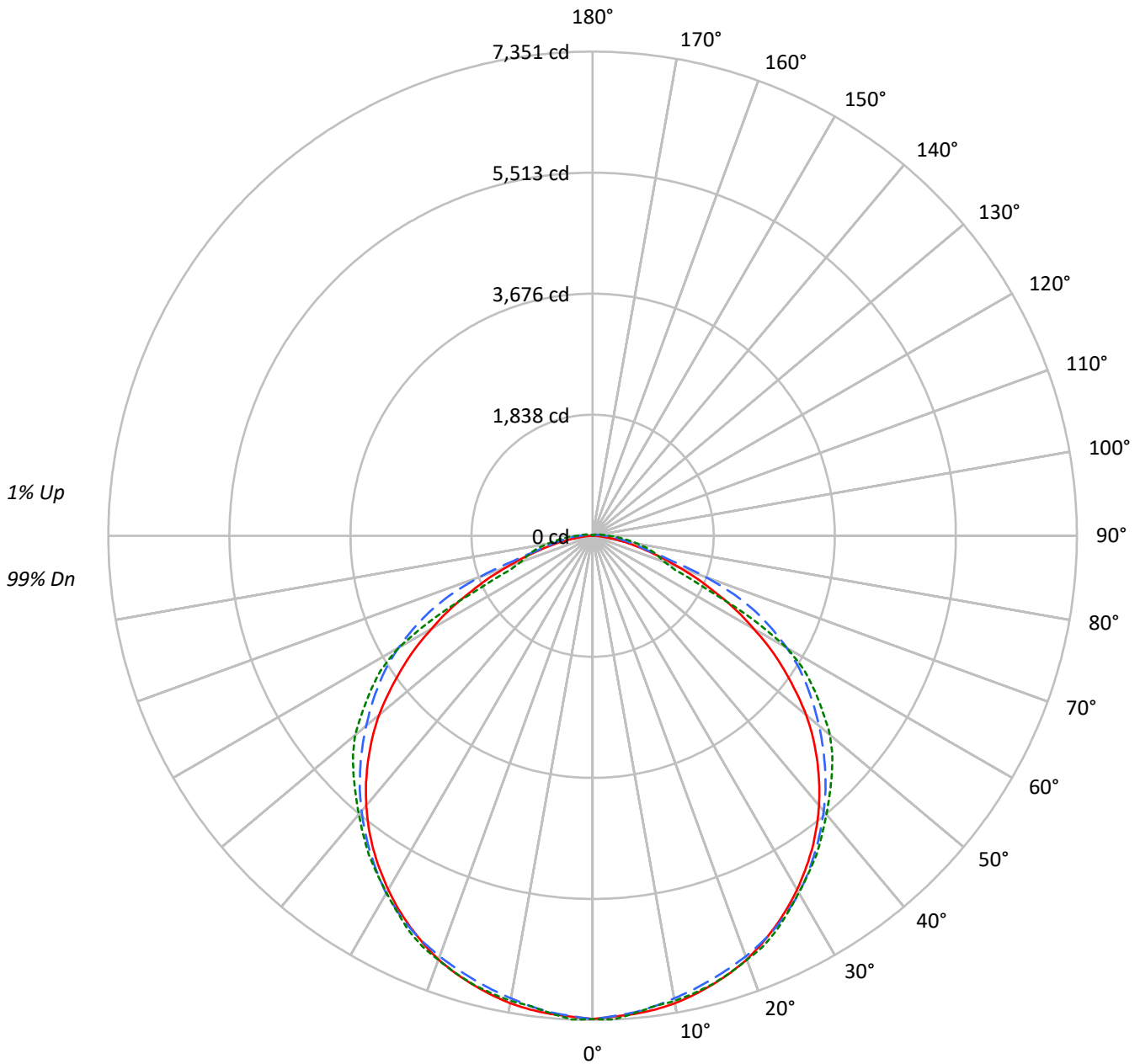
Lumens per Lamp: N/A
Luminaire Lumens: 20736.0 lumens
Efficiency: N/A
Efficacy: 150.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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: P830101

CATALOG NUMBER: OHBL-24SE-A-UNV-L940-CD

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	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°	12530	12530	12530
5°	12449	12343	12366
10°	12403	12150	12221
15°	12324	12005	12132
20°	12246	11912	12016
25°	12098	11817	11901
30°	11937	11671	11668
35°	11745	11444	11534
40°	11495	11208	11355
45°	11149	10936	11269
50°	10680	10627	11167
55°	9934	10321	10735
60°	8959	9878	9908
65°	7685	9063	6266
70°	6190	7061	4530
75°	4641	4179	4578
80°	3230	3458	4340
85°	1839	3140	4016



TEST NUMBER: P830101

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	691.8	3.3
10°-20°	1983.6	9.6
20°-30°	3029.6	14.6
30°-40°	3676.0	17.7
40°-50°	3852.8	18.6
50°-60°	3491.2	16.8
60°-70°	2340.7	11.3
70°-80°	1051.1	5.1
80°-90°	381.4	1.8
90°-100°	114.8	0.6
100°-110°	54.2	0.3
110°-120°	27.1	0.1
120°-130°	15.0	0.1
130°-140°	10.3	0.0
140°-150°	6.9	0.0
150°-160°	5.2	0.0
160°-170°	3.3	0.0
170°-180°	1.1	0.0
0°-30°	5705.0	27.5
0°-40°	9381.0	45.2
0°-60°	16725.0	80.7
0°-90°	20498.2	98.9
90°-120°	196.2	0.9
90°-150°	228.3	1.1
90°-180°	238.0	1.1
0°-180°	20736.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7336	7336	7336	7336	7336	
5°	7289	7314	7263	7286	7276	693
15°	7052	7024	6975	7036	7045	1991
25°	6551	6523	6568	6629	6610	3020
35°	5807	5820	5880	5942	5919	3629
45°	4819	4898	4989	5116	5132	3712
55°	3546	3717	3970	4130	4120	3165
65°	2081	2407	2733	2306	1883	2074
75°	819	1188	874	894	953	895
85°	141	270	347	419	439	172
90°	1	90	179	225	236	8
95°	1	56	123	150	154	1
105°	4	24	60	73	76	5
115°	8	13	31	39	41	8
125°	7	8	19	22	23	7
135°	10	11	12	17	18	8
145°	10	11	11	12	13	6
155°	11	12	12	12	11	5
165°	12	12	12	12	12	3
175°	12	12	11	10	10	1
180°	11	11	11	11	11	



TEST NUMBER: P830101

CATALOG NUMBER: OHBL-24SE-A-UNV-L940-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7336.4	7336.4	7336.4	7336.4	7336.4
2.5°	7306.7	7337.5	7299.3	7340.7	7351.3
5°	7288.7	7314.1	7263.2	7285.5	7275.9
7.5°	7255.8	7264.3	7203.8	7221.8	7202.8
10°	7207.0	7202.8	7131.7	7166.7	7170.9
12.5°	7134.9	7122.1	7058.5	7111.5	7112.6
15°	7052.1	7024.5	6974.7	7036.2	7044.7
17.5°	6956.7	6920.6	6887.7	6967.3	6954.5
20°	6845.3	6802.8	6796.5	6883.5	6851.6
22.5°	6707.4	6674.5	6689.3	6772.1	6751.9
25°	6551.4	6522.8	6568.4	6628.9	6609.8
27.5°	6387.0	6370.0	6422.0	6468.7	6431.6
30°	6206.7	6197.1	6266.1	6304.3	6257.6
32.5°	6010.4	6013.6	6079.4	6131.4	6087.9
35°	5806.8	5820.5	5880.0	5942.5	5919.2
37.5°	5582.9	5613.7	5673.1	5744.2	5719.8
40°	5346.4	5390.9	5456.7	5542.6	5520.3
42.5°	5090.7	5146.9	5231.8	5327.3	5325.2
45°	4819.2	4897.7	4988.9	5116.2	5132.1
47.5°	4537.0	4625.0	4740.7	4910.4	4934.8
50°	4230.4	4340.7	4485.0	4688.7	4703.5
52.5°	3888.9	4039.5	4230.4	4425.6	4407.6
55°	3546.2	3717.0	3970.5	4129.7	4120.1
57.5°	3204.6	3396.6	3704.3	3817.8	3816.7
60°	2822.8	3065.7	3401.9	3487.9	3403.0
62.5°	2469.5	2730.5	3079.5	3016.9	2726.2
65°	2081.3	2406.9	2732.6	2306.2	1882.9
67.5°	1736.5	2076.0	2321.0	1579.5	1352.5
70°	1389.6	1764.1	1809.7	1172.2	1156.3
72.5°	1082.0	1480.9	1248.5	1003.5	1054.4
75°	818.9	1188.1	874.1	894.2	952.6
77.5°	597.2	912.3	680.0	783.9	831.7
80°	410.5	646.0	554.8	658.7	691.6
82.5°	257.8	426.4	444.5	530.4	564.3
85°	141.1	270.5	346.9	419.0	439.2
87.5°	58.3	163.4	265.2	323.5	340.5
90°	1.1	90.2	179.3	224.9	235.5
92.5°	1.1	69.0	146.4	181.4	188.8
95°	1.1	56.2	123.1	149.6	153.8
97.5°	2.1	44.6	102.9	124.1	128.4
100°	3.2	37.1	85.9	104.0	107.1
102.5°	4.2	29.7	72.1	87.0	90.2
105°	4.2	24.4	60.5	73.2	76.4



TEST NUMBER: P830101

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	7.4	14.9	36.1	45.6	47.7
115°	8.5	12.7	30.8	39.2	41.4
117.5°	8.5	10.6	26.5	32.9	35.0
120°	8.5	9.5	23.3	28.6	29.7
122.5°	8.5	8.5	20.2	25.5	26.5
125°	7.4	8.5	19.1	22.3	23.3
127.5°	8.5	8.5	17.0	20.2	21.2
130°	8.5	9.5	14.9	19.1	19.1
132.5°	9.5	10.6	13.8	18.0	18.0
135°	9.5	10.6	11.7	17.0	18.0
137.5°	10.6	10.6	10.6	15.9	17.0
140°	10.6	10.6	9.5	13.8	14.9
142.5°	9.5	10.6	9.5	12.7	13.8
145°	9.5	10.6	10.6	11.7	12.7
147.5°	10.6	10.6	10.6	10.6	11.7
150°	10.6	10.6	10.6	10.6	10.6
152.5°	10.6	10.6	10.6	10.6	10.6
155°	10.6	11.7	11.7	11.7	10.6
157.5°	10.6	11.7	11.7	11.7	11.7
160°	10.6	11.7	11.7	11.7	11.7
162.5°	11.7	11.7	11.7	11.7	11.7
165°	11.7	11.7	11.7	11.7	11.7
167.5°	11.7	12.7	11.7	11.7	11.7
170°	11.7	11.7	11.7	10.6	10.6
172.5°	11.7	11.7	11.7	10.6	10.6
175°	11.7	11.7	10.6	9.5	9.5
177.5°	12.7	11.7	10.6	9.5	8.5
180°	10.6	10.6	10.6	10.6	10.6



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	5.3	20.2	52.0	62.6	64.7
110°	6.4	17.0	43.5	53.0	55.2



(END OF REPORT)