

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: P830093

Luminaire Tested: **OHBL-24SE-A-UNV-L740-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830093
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-L740-CD
Description: 24000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 4000K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

Summary

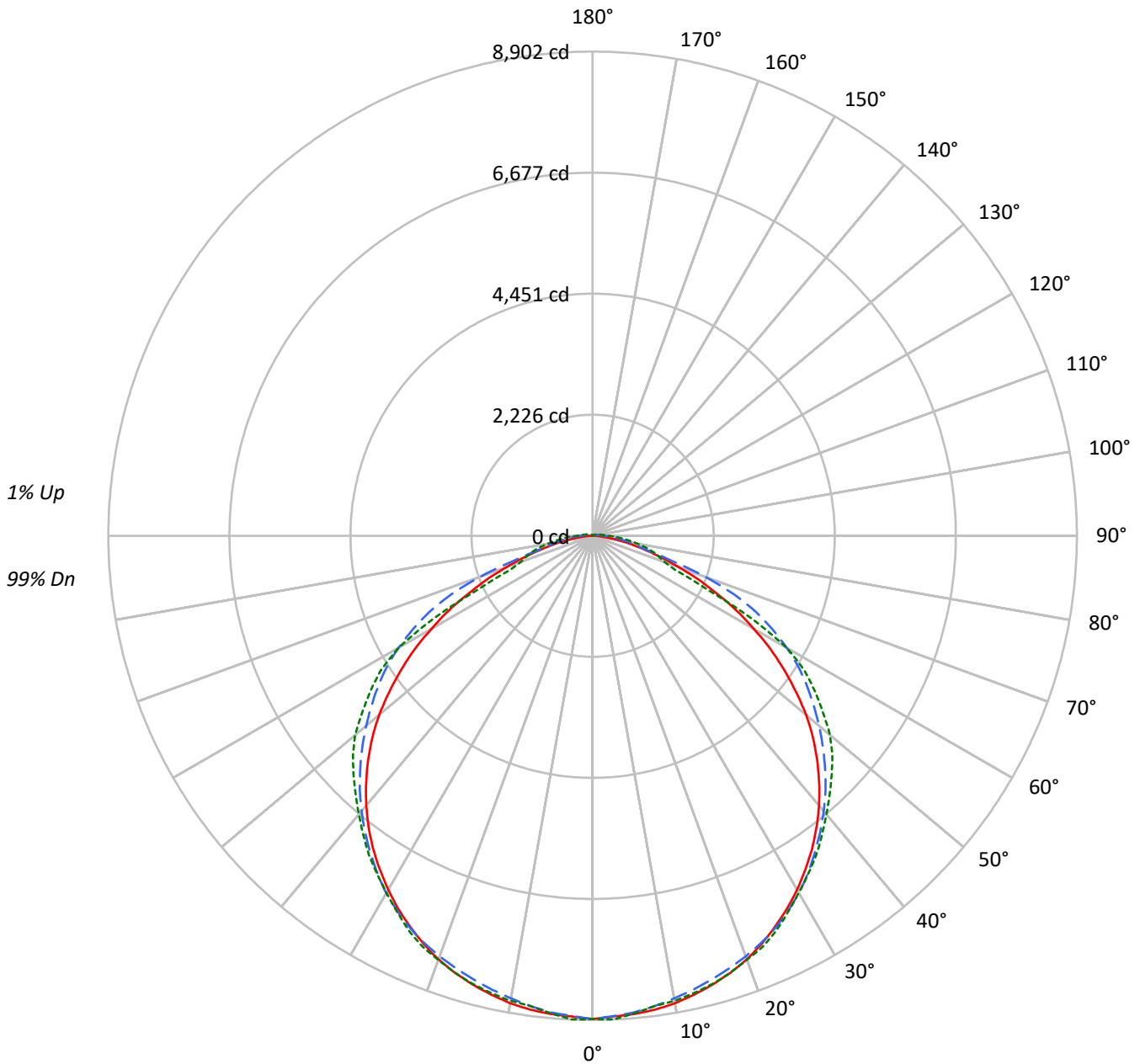
Lumens per Lamp: N/A
Luminaire Lumens: 25109.0 lumens
Efficiency: N/A
Efficacy: 181.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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

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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	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°	15173	15173	15173
5°	15074	14946	14975
10°	15019	14713	14799
15°	14923	14537	14690
20°	14828	14424	14550
25°	14649	14309	14411
30°	14454	14133	14128
35°	14222	13857	13967
40°	13919	13572	13750
45°	13500	13242	13646
50°	12932	12868	13522
55°	12030	12498	12999
60°	10848	11961	11998
65°	9305	10975	7587
70°	7495	8550	5485
75°	5619	5060	5543
80°	3911	4188	5256
85°	2226	3802	4863



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	837.6	3.3
10°-20°	2402.0	9.6
20°-30°	3668.5	14.6
30°-40°	4451.2	17.7
40°-50°	4665.3	18.6
50°-60°	4227.5	16.8
60°-70°	2834.3	11.3
70°-80°	1272.7	5.1
80°-90°	461.9	1.8
90°-100°	139.0	0.6
100°-110°	65.6	0.3
110°-120°	32.9	0.1
120°-130°	18.1	0.1
130°-140°	12.5	0.0
140°-150°	8.4	0.0
150°-160°	6.2	0.0
160°-170°	4.0	0.0
170°-180°	1.3	0.0
0°-30°	6908.1	27.5
0°-40°	11359.3	45.2
0°-60°	20252.1	80.7
0°-90°	24821.0	98.9
90°-120°	237.5	0.9
90°-150°	276.5	1.1
90°-180°	288.0	1.1
0°-180°	25109.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8884	8884	8884	8884	8884	
5°	8826	8857	8795	8822	8810	839
15°	8539	8506	8446	8520	8530	2411
25°	7933	7898	7954	8027	8004	3657
35°	7031	7048	7120	7196	7168	4395
45°	5836	5930	6041	6195	6214	4495
55°	4294	4501	4808	5000	4989	3833
65°	2520	2914	3309	2792	2280	2511
75°	992	1439	1058	1083	1154	1084
85°	171	328	420	507	532	208
90°	1	109	217	272	285	10
95°	1	68	149	181	186	2
105°	5	30	73	89	92	6
115°	10	15	37	48	50	10
125°	9	10	23	27	28	9
135°	12	13	14	21	22	9
145°	12	13	13	14	15	8
155°	13	14	14	14	13	6
165°	14	14	14	14	14	4
175°	14	14	13	12	12	1
180°	13	13	13	13	13	



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CATALOG NUMBER: OHBL-24SE-A-UNV-L740-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8883.6	8883.6	8883.6	8883.6	8883.6
2.5°	8847.6	8884.9	8838.6	8888.7	8901.6
5°	8825.8	8856.6	8795.0	8821.9	8810.4
7.5°	8786.0	8796.2	8723.0	8744.9	8721.7
10°	8726.9	8721.7	8635.7	8678.1	8683.2
12.5°	8639.5	8624.1	8547.0	8611.3	8612.6
15°	8539.3	8505.9	8445.6	8520.1	8530.3
17.5°	8423.7	8380.1	8340.2	8436.6	8421.2
20°	8288.9	8237.5	8229.8	8335.1	8296.6
22.5°	8121.9	8082.1	8100.0	8200.2	8175.8
25°	7933.1	7898.4	7953.6	8026.8	8003.7
27.5°	7734.0	7713.4	7776.3	7832.9	7787.9
30°	7515.6	7504.0	7587.5	7633.8	7577.3
32.5°	7278.0	7281.8	7361.5	7424.4	7371.7
35°	7031.3	7048.0	7120.0	7195.8	7167.5
37.5°	6760.3	6797.6	6869.5	6955.6	6926.0
40°	6473.9	6527.8	6607.5	6711.5	6684.5
42.5°	6164.3	6232.4	6335.1	6450.7	6448.2
45°	5835.5	5930.5	6041.0	6195.1	6214.4
47.5°	5493.8	5600.4	5740.4	5945.9	5975.5
50°	5122.6	5256.2	5430.9	5677.5	5695.5
52.5°	4709.0	4891.4	5122.6	5358.9	5337.1
55°	4294.1	4500.9	4807.9	5000.5	4989.0
57.5°	3880.5	4113.0	4485.5	4622.9	4621.6
60°	3418.0	3712.2	4119.4	4223.4	4120.7
62.5°	2990.3	3306.3	3728.9	3653.1	3301.2
65°	2520.2	2914.5	3308.9	2792.5	2280.0
67.5°	2102.7	2513.8	2810.5	1912.6	1637.7
70°	1682.7	2136.1	2191.4	1419.4	1400.1
72.5°	1310.2	1793.2	1511.9	1215.1	1276.8
75°	991.6	1438.6	1058.4	1082.8	1153.5
77.5°	723.2	1104.7	823.4	949.2	1007.0
80°	497.1	782.3	671.8	797.7	837.5
82.5°	312.1	516.4	538.2	642.2	683.4
85°	170.8	327.5	420.0	507.4	531.8
87.5°	70.6	197.8	321.1	391.8	412.3
90°	1.3	109.2	217.1	272.3	285.2
92.5°	1.3	83.5	177.3	219.6	228.6
95°	1.3	68.1	149.0	181.1	186.3
97.5°	2.6	53.9	124.6	150.3	155.4
100°	3.9	45.0	104.0	125.9	129.7
102.5°	5.1	36.0	87.3	105.3	109.2
105°	5.1	29.5	73.2	88.6	92.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	9.0	18.0	43.7	55.2	57.8
115°	10.3	15.4	37.3	47.5	50.1
117.5°	10.3	12.8	32.1	39.8	42.4
120°	10.3	11.6	28.3	34.7	36.0
122.5°	10.3	10.3	24.4	30.8	32.1
125°	9.0	10.3	23.1	27.0	28.3
127.5°	10.3	10.3	20.6	24.4	25.7
130°	10.3	11.6	18.0	23.1	23.1
132.5°	11.6	12.8	16.7	21.8	21.8
135°	11.6	12.8	14.1	20.6	21.8
137.5°	12.8	12.8	12.8	19.3	20.6
140°	12.8	12.8	11.6	16.7	18.0
142.5°	11.6	12.8	11.6	15.4	16.7
145°	11.6	12.8	12.8	14.1	15.4
147.5°	12.8	12.8	12.8	12.8	14.1
150°	12.8	12.8	12.8	12.8	12.8
152.5°	12.8	12.8	12.8	12.8	12.8
155°	12.8	14.1	14.1	14.1	12.8
157.5°	12.8	14.1	14.1	14.1	14.1
160°	12.8	14.1	14.1	14.1	14.1
162.5°	14.1	14.1	14.1	14.1	14.1
165°	14.1	14.1	14.1	14.1	14.1
167.5°	14.1	15.4	14.1	14.1	14.1
170°	14.1	14.1	14.1	12.8	12.8
172.5°	14.1	14.1	14.1	12.8	12.8
175°	14.1	14.1	12.8	11.6	11.6
177.5°	15.4	14.1	12.8	11.6	10.3
180°	12.8	12.8	12.8	12.8	12.8



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	6.4	24.4	62.9	75.8	78.4
110°	7.7	20.6	52.7	64.2	66.8



(END OF REPORT)