

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: P830129

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830129
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-24SE-N-UNV-L740-CD
Description: 24000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 4000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

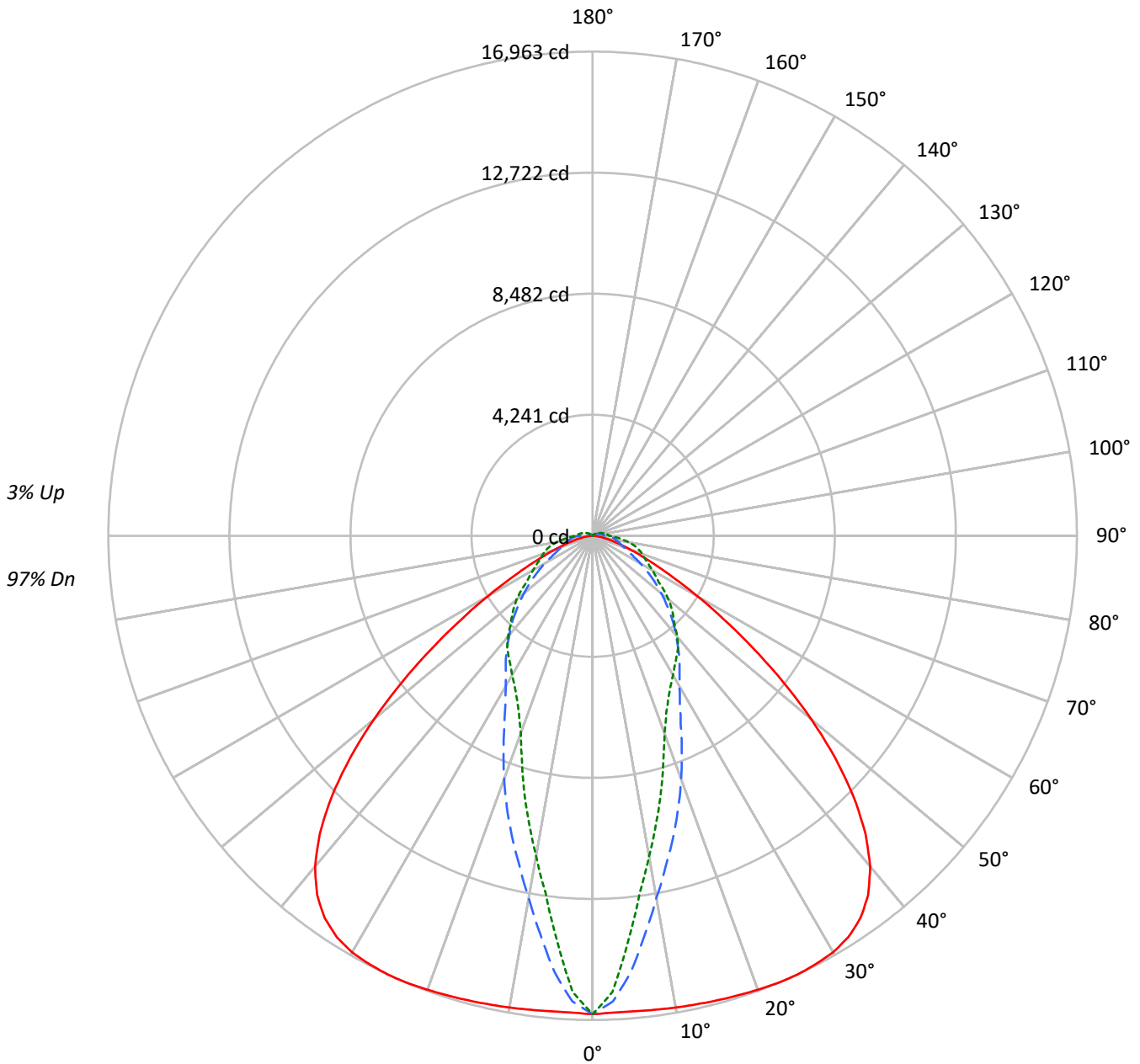
Lumens per Lamp: N/A
Luminaire Lumens: 24732.0 lumens
Efficiency: N/A
Efficacy: 179.2 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 138
Input Voltage (V): NR
Input Current (Ain): 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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	97																	
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	85	85	85	82																	
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	71																	
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	62																	
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	54																	
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	48																	
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	43																	
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	39																	
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	35																	
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	32																	
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	30																	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	28621	28621	28621
5°	28563	26065	24234
10°	28885	21955	19432
15°	29449	18777	15949
20°	30277	15876	12900
25°	31324	13141	11303
30°	32407	11321	10500
35°	33081	10317	10004
40°	32515	9320	9491
45°	29912	8422	8787
50°	25237	7441	8247
55°	19176	6517	7339
60°	13438	5589	7026
65°	9039	4814	6878
70°	6173	4518	7216
75°	4284	4659	7710
80°	2949	5160	7937
85°	1725	6454	8327



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1410.6	5.7
10°-20°	3318.4	13.4
20°-30°	4159.5	16.8
30°-40°	4413.8	17.8
40°-50°	3990.7	16.1
50°-60°	2893.5	11.7
60°-70°	1815.8	7.3
70°-80°	1201.7	4.9
80°-90°	692.3	2.8
90°-100°	335.4	1.4
100°-110°	231.5	0.9
110°-120°	142.9	0.6
120°-130°	69.2	0.3
130°-140°	31.8	0.1
140°-150°	17.4	0.1
150°-160°	7.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	8888.5	35.9
0°-40°	13302.3	53.8
0°-60°	20186.5	81.6
0°-90°	23896.3	96.6
90°-120°	709.7	2.9
90°-150°	828.1	3.3
90°-180°	836.0	3.4
0°-180°	24732.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16757	16757	16757	16757	16757	
5°	16724	16295	15338	14626	14258	###
15°	16851	13735	10909	9702	9261	4779
25°	16963	10620	7304	6483	6277	7837
35°	16355	7060	5301	5136	5134	10167
45°	12930	4472	3842	3934	4002	9850
55°	6845	2772	2507	2719	2816	6185
65°	2448	1608	1451	1860	2067	2548
75°	756	866	974	1514	1604	843
85°	132	359	713	992	911	159
90°	0	150	413	582	587	9
95°	6	105	364	494	517	6
105°	13	70	265	351	360	13
115°	18	49	179	223	228	17
125°	19	26	91	115	113	17
135°	16	19	40	62	62	12
145°	19	21	24	37	35	11
155°	19	24	26	27	24	6
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-N-UNV-L740-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16757.2	16757.2	16757.2	16757.2	16757.2
2.5°	16722.2	16626.5	16328.2	16146.4	15993.3
5°	16723.8	16294.7	15337.8	14626.5	14258.1
7.5°	16747.7	15794.0	14069.9	13031.6	12626.5
10°	16784.4	15173.5	12886.5	11779.7	11401.7
12.5°	16811.5	14475.0	11845.1	10707.9	10293.3
15°	16851.3	13735.0	10908.9	9701.6	9261.4
17.5°	16888.0	13038.0	9983.9	8722.3	8232.7
20°	16924.7	12286.8	9058.8	7759.0	7355.5
22.5°	16959.8	11494.2	8156.1	7011.0	6735.1
25°	16963.0	10620.2	7304.5	6483.1	6277.4
27.5°	16921.5	9714.3	6613.9	6041.3	5913.8
30°	16849.8	8835.6	6078.0	5722.4	5631.5
32.5°	16671.1	7939.2	5663.4	5414.6	5361.9
35°	16355.3	7060.5	5301.3	5135.5	5133.9
37.5°	15857.7	6280.6	4909.0	4880.3	4915.4
40°	15122.5	5598.0	4537.4	4613.9	4613.9
42.5°	14141.7	5004.7	4200.9	4279.0	4258.3
45°	12929.6	4472.0	3842.0	3934.5	4001.5
47.5°	11524.5	4003.1	3475.2	3653.8	3746.3
50°	9996.6	3556.5	3140.3	3368.4	3473.6
52.5°	8395.4	3143.5	2813.3	3074.9	3159.4
55°	6845.2	2771.9	2507.1	2719.2	2816.5
57.5°	5441.7	2417.8	2207.3	2408.2	2609.2
60°	4234.4	2113.2	1925.0	2212.1	2413.0
62.5°	3234.4	1842.1	1660.3	2028.7	2229.6
65°	2448.1	1607.6	1451.3	1859.6	2066.9
67.5°	1845.3	1405.1	1288.7	1736.8	1939.4
70°	1385.9	1208.9	1157.9	1660.3	1842.1
72.5°	1023.9	1028.7	1054.2	1593.3	1732.0
75°	756.0	866.0	974.5	1513.5	1604.4
77.5°	540.7	717.7	902.7	1417.8	1449.7
80°	374.8	585.3	827.7	1291.8	1264.7
82.5°	234.4	468.9	760.8	1153.1	1078.1
85°	132.4	358.8	712.9	992.0	910.7
87.5°	59.0	267.9	623.6	773.5	722.5
90°	0.0	149.9	413.1	582.1	586.9
92.5°	3.2	124.4	381.2	532.7	548.6
95°	6.4	105.3	363.6	494.4	516.7
97.5°	8.0	92.5	341.3	459.3	478.5
100°	9.6	82.9	314.2	422.6	438.6
102.5°	11.2	76.6	288.7	384.4	397.1
105°	12.8	70.2	264.7	350.9	360.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	15.9	54.2	199.4	252.0	260.0
115°	17.5	49.4	178.6	223.3	228.1
117.5°	19.1	43.1	156.3	196.2	197.8
120°	19.1	38.3	134.0	167.5	167.5
122.5°	19.1	31.9	111.6	138.8	137.2
125°	19.1	25.5	90.9	114.8	113.2
127.5°	17.5	20.7	73.4	95.7	94.1
130°	17.5	20.7	59.0	81.3	81.3
132.5°	15.9	19.1	47.8	70.2	70.2
135°	15.9	19.1	39.9	62.2	62.2
137.5°	15.9	20.7	33.5	54.2	54.2
140°	15.9	19.1	28.7	47.8	47.8
142.5°	17.5	19.1	25.5	41.5	41.5
145°	19.1	20.7	23.9	36.7	35.1
147.5°	19.1	22.3	23.9	31.9	30.3
150°	19.1	23.9	23.9	28.7	27.1
152.5°	19.1	23.9	23.9	27.1	25.5
155°	19.1	23.9	25.5	27.1	23.9
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°	12.8	65.4	242.4	314.2	325.4
110°	14.4	59.0	221.7	280.7	291.9



(END OF REPORT)