

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: P830134

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830134
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-L850-CD
Description: 24000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

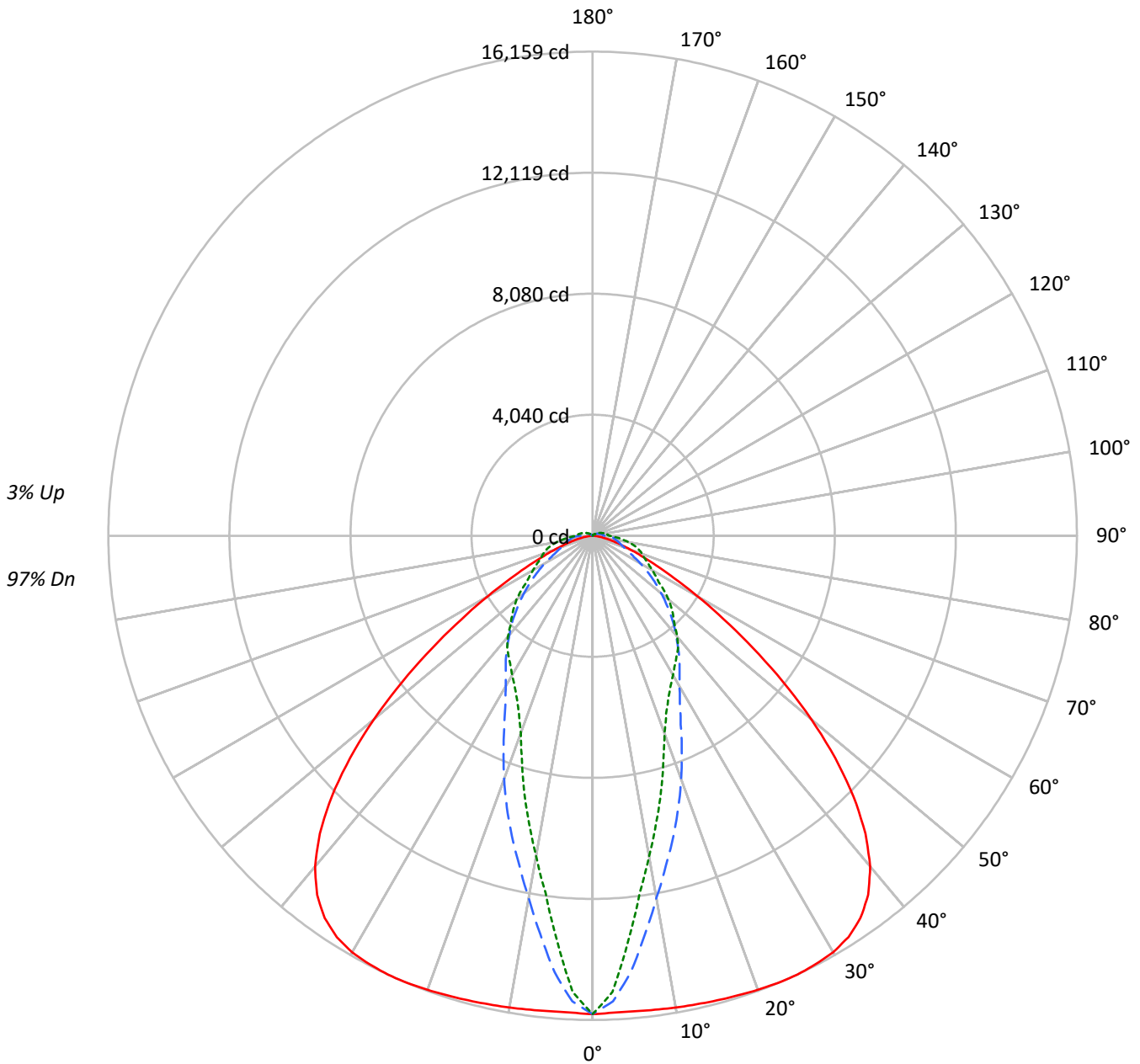
Lumens per Lamp: N/A
Luminaire Lumens: 23560.0 lumens
Efficiency: N/A
Efficacy: 170.7 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 138
Input Voltage (V): NR
Input Current (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	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°	27265	27265	27265
5°	27209	24829	23085
10°	27516	20915	18511
15°	28054	17887	15193
20°	28842	15124	12289
25°	29839	12518	10767
30°	30871	10785	10003
35°	31513	9829	9530
40°	30974	8878	9041
45°	28495	8023	8370
50°	24041	7088	7856
55°	18267	6208	6991
60°	12802	5324	6693
65°	8611	4586	6552
70°	5881	4303	6874
75°	4081	4438	7345
80°	2809	4915	7561
85°	1643	6148	7932



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1343.8	5.7
10°-20°	3161.1	13.4
20°-30°	3962.4	16.8
30°-40°	4204.6	17.8
40°-50°	3801.6	16.1
50°-60°	2756.4	11.7
60°-70°	1729.8	7.3
70°-80°	1144.7	4.9
80°-90°	659.5	2.8
90°-100°	319.5	1.4
100°-110°	220.5	0.9
110°-120°	136.1	0.6
120°-130°	65.9	0.3
130°-140°	30.3	0.1
140°-150°	16.6	0.1
150°-160°	7.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	8467.3	35.9
0°-40°	12671.9	53.8
0°-60°	19229.9	81.6
0°-90°	22763.9	96.6
90°-120°	676.1	2.9
90°-150°	788.9	3.3
90°-180°	796.0	3.4
0°-180°	23560.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15963	15963	15963	15963	15963	
5°	15931	15523	14611	13933	13582	###
15°	16053	13084	10392	9242	8822	4552
25°	16159	10117	6958	6176	5980	7465
35°	15580	6726	5050	4892	4891	9685
45°	12317	4260	3660	3748	3812	9383
55°	6521	2640	2388	2590	2683	5892
65°	2332	1531	1383	1772	1969	2427
75°	720	825	928	1442	1528	803
85°	126	342	679	945	868	151
90°	0	143	394	554	559	8
95°	6	100	346	471	492	5
105°	12	67	252	334	343	12
115°	17	47	170	213	217	16
125°	18	24	87	109	108	16
135°	15	18	38	59	59	12
145°	18	20	23	35	33	11
155°	18	23	24	26	23	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-L850-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15963.2	15963.2	15963.2	15963.2	15963.2
2.5°	15929.7	15838.6	15554.5	15381.3	15235.4
5°	15931.3	15522.6	14611.0	13933.4	13582.4
7.5°	15954.0	15045.5	13403.2	12414.1	12028.2
10°	15989.0	14454.5	12275.8	11221.5	10861.4
12.5°	16014.8	13789.1	11283.8	10200.5	9805.5
15°	16052.8	13084.1	10391.9	9241.8	8822.5
17.5°	16087.7	12420.2	9510.7	8309.0	7842.6
20°	16122.7	11704.6	8629.6	7391.3	7007.0
22.5°	16156.1	10949.5	7769.6	6678.8	6416.0
25°	16159.1	10116.9	6958.3	6175.9	5979.9
27.5°	16119.6	9254.0	6300.5	5755.1	5633.5
30°	16051.3	8416.9	5790.0	5451.2	5364.6
32.5°	15881.1	7563.0	5395.0	5158.0	5107.8
35°	15580.3	6725.9	5050.1	4892.1	4890.6
37.5°	15106.3	5983.0	4676.4	4649.0	4682.4
40°	14405.9	5332.7	4322.4	4395.3	4395.3
42.5°	13471.5	4767.5	4001.8	4076.2	4056.5
45°	12316.9	4260.1	3660.0	3748.1	3811.9
47.5°	10978.4	3813.4	3310.5	3480.7	3568.8
50°	9522.9	3388.0	2991.5	3208.7	3309.0
52.5°	7997.5	2994.5	2680.0	2929.2	3009.7
55°	6520.8	2640.5	2388.3	2590.4	2683.1
57.5°	5183.8	2303.2	2102.7	2294.1	2485.6
60°	4033.7	2013.1	1833.8	2107.3	2298.7
62.5°	3081.1	1754.8	1581.6	1932.5	2124.0
65°	2332.1	1531.4	1382.6	1771.5	1969.0
67.5°	1757.8	1338.5	1227.6	1654.5	1847.5
70°	1320.3	1151.6	1103.0	1581.6	1754.8
72.5°	975.4	979.9	1004.2	1517.8	1649.9
75°	720.1	825.0	928.3	1441.8	1528.4
77.5°	515.0	683.7	859.9	1350.6	1381.0
80°	357.0	557.6	788.5	1230.6	1204.8
82.5°	223.3	446.7	724.7	1098.4	1027.0
85°	126.1	341.8	679.1	945.0	867.5
87.5°	56.2	255.2	594.0	736.9	688.2
90°	0.0	142.8	393.5	554.5	559.1
92.5°	3.0	118.5	363.1	507.4	522.6
95°	6.1	100.3	346.4	471.0	492.2
97.5°	7.6	88.1	325.1	437.6	455.8
100°	9.1	79.0	299.3	402.6	417.8
102.5°	10.6	72.9	275.0	366.1	378.3
105°	12.2	66.8	252.2	334.2	343.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	15.2	51.7	189.9	240.0	247.6
115°	16.7	47.1	170.2	212.7	217.3
117.5°	18.2	41.0	148.9	186.9	188.4
120°	18.2	36.5	127.6	159.5	159.5
122.5°	18.2	30.4	106.4	132.2	130.7
125°	18.2	24.3	86.6	109.4	107.9
127.5°	16.7	19.8	69.9	91.2	89.6
130°	16.7	19.8	56.2	77.5	77.5
132.5°	15.2	18.2	45.6	66.8	66.8
135°	15.2	18.2	38.0	59.3	59.3
137.5°	15.2	19.8	31.9	51.7	51.7
140°	15.2	18.2	27.3	45.6	45.6
142.5°	16.7	18.2	24.3	39.5	39.5
145°	18.2	19.8	22.8	34.9	33.4
147.5°	18.2	21.3	22.8	30.4	28.9
150°	18.2	22.8	22.8	27.3	25.8
152.5°	18.2	22.8	22.8	25.8	24.3
155°	18.2	22.8	24.3	25.8	22.8
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°	12.2	62.3	230.9	299.3	309.9
110°	13.7	56.2	211.2	267.4	278.0



(END OF REPORT)