

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: P830128

Luminaire Tested: **OHBL-24SE-N-UNV-L735-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830128
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-L735-CD
Description: 24000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

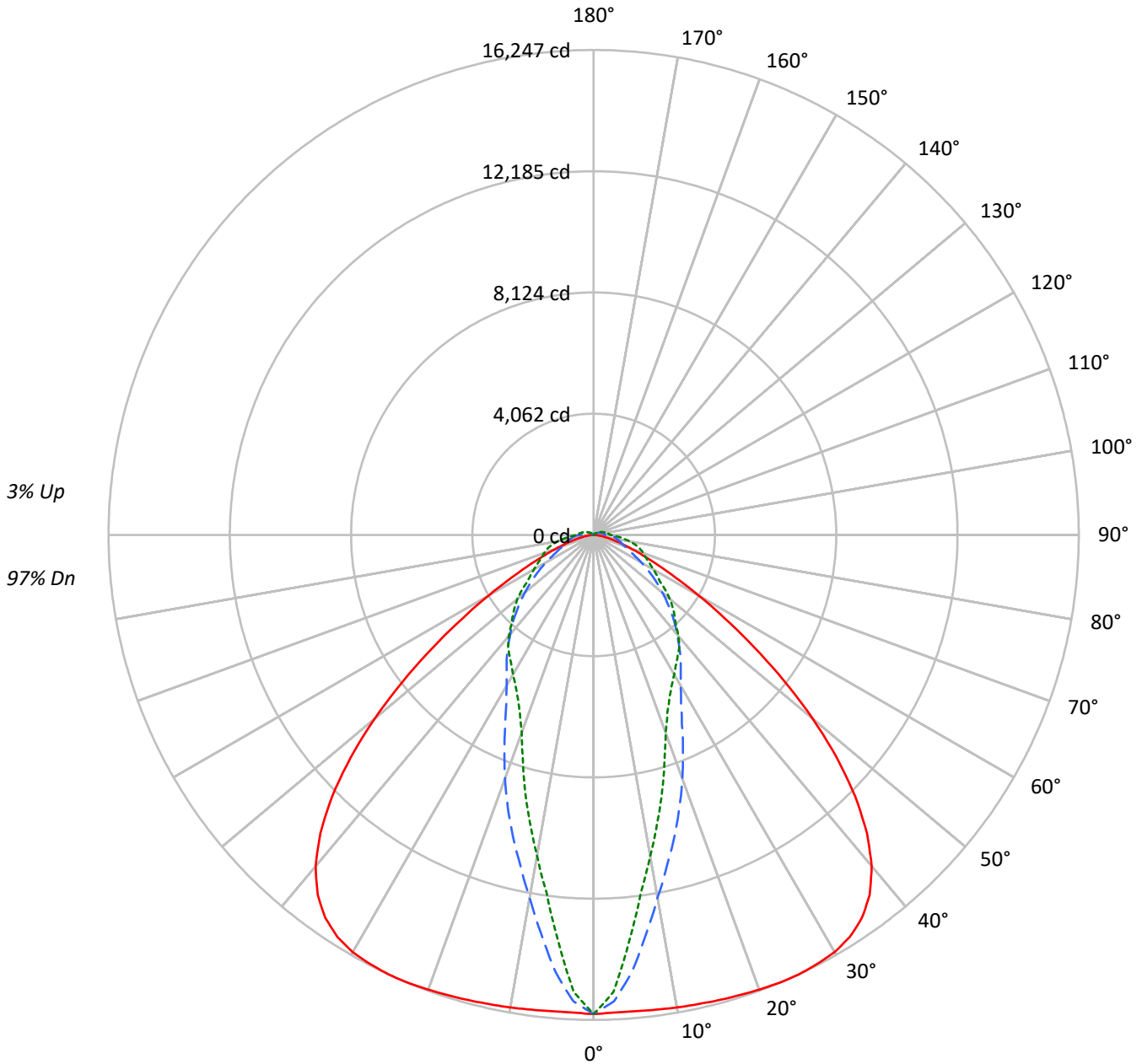
Lumens per Lamp: N/A
Luminaire Lumens: 23688.0 lumens
Efficiency: N/A
Efficacy: 171.7 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 138
Input Voltage (V): NR
Input Current (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°	27413	27413	27413
5°	27357	24964	23211
10°	27666	21028	18611
15°	28206	17984	15276
20°	28999	15206	12355
25°	30001	12586	10826
30°	31039	10843	10057
35°	31684	9882	9582
40°	31142	8926	9090
45°	28650	8066	8416
50°	24171	7127	7899
55°	18367	6242	7029
60°	12871	5353	6729
65°	8658	4611	6588
70°	5913	4327	6911
75°	4103	4462	7384
80°	2825	4942	7602
85°	1652	6181	7975



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1351.1	5.7
10°-20°	3178.3	13.4
20°-30°	3984.0	16.8
30°-40°	4227.4	17.8
40°-50°	3822.3	16.1
50°-60°	2771.4	11.7
60°-70°	1739.2	7.3
70°-80°	1150.9	4.9
80°-90°	663.1	2.8
90°-100°	321.2	1.4
100°-110°	221.7	0.9
110°-120°	136.8	0.6
120°-130°	66.3	0.3
130°-140°	30.5	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°	8513.3	35.9
0°-40°	12740.8	53.8
0°-60°	19334.4	81.6
0°-90°	22887.6	96.6
90°-120°	679.8	2.9
90°-150°	793.1	3.3
90°-180°	800.0	3.4
0°-180°	23688.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16050	16050	16050	16050	16050	
5°	16018	15607	14690	14009	13656	###
15°	16140	13155	10448	9292	8870	4577
25°	16247	10172	6996	6210	6012	7506
35°	15665	6762	5078	4919	4917	9738
45°	12384	4283	3680	3768	3833	9434
55°	6556	2655	2401	2604	2698	5924
65°	2345	1540	1390	1781	1980	2440
75°	724	830	933	1450	1537	807
85°	127	344	683	950	872	152
90°	0	144	396	558	562	8
95°	6	101	348	474	495	5
105°	12	67	254	336	345	12
115°	17	47	171	214	218	16
125°	18	24	87	110	108	16
135°	15	18	38	60	60	12
145°	18	20	23	35	34	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-L735-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16049.9	16049.9	16049.9	16049.9	16049.9
2.5°	16016.3	15924.6	15639.0	15464.8	15318.2
5°	16017.8	15606.9	14690.4	14009.1	13656.2
7.5°	16040.7	15127.2	13476.0	12481.5	12093.5
10°	16075.9	14533.0	12342.5	11282.4	10920.4
12.5°	16101.8	13864.0	11345.1	10255.9	9858.8
15°	16140.0	13155.2	10448.4	9292.0	8870.4
17.5°	16175.1	12487.7	9562.4	8354.1	7885.2
20°	16210.3	11768.2	8676.4	7431.5	7045.0
22.5°	16243.9	11009.0	7811.8	6715.1	6450.8
25°	16246.9	10171.9	6996.1	6209.5	6012.4
27.5°	16207.2	9304.3	6334.7	5786.3	5664.1
30°	16138.5	8462.6	5821.5	5480.8	5393.8
32.5°	15967.4	7604.1	5424.3	5186.0	5135.6
35°	15664.9	6762.4	5077.5	4918.7	4917.2
37.5°	15188.3	6015.5	4701.8	4674.3	4707.9
40°	14484.2	5361.7	4345.9	4419.2	4419.2
42.5°	13544.7	4793.4	4023.5	4098.4	4078.5
45°	12383.8	4283.2	3679.8	3768.4	3832.6
47.5°	11038.0	3834.1	3328.5	3499.6	3588.2
50°	9574.6	3406.4	3007.7	3226.2	3327.0
52.5°	8041.0	3010.8	2694.6	2945.1	3026.1
55°	6556.2	2654.9	2401.3	2604.5	2697.6
57.5°	5212.0	2315.8	2114.1	2306.6	2499.1
60°	4055.6	2024.0	1843.7	2118.7	2311.2
62.5°	3097.9	1764.3	1590.2	1943.0	2135.5
65°	2344.8	1539.8	1390.1	1781.1	1979.7
67.5°	1767.4	1345.8	1234.3	1663.5	1857.5
70°	1327.4	1157.9	1109.0	1590.2	1764.3
72.5°	980.7	985.3	1009.7	1526.0	1658.9
75°	724.1	829.5	933.3	1449.6	1536.7
77.5°	517.8	687.4	864.6	1358.0	1388.5
80°	359.0	560.6	792.8	1237.3	1211.3
82.5°	224.5	449.1	728.6	1104.4	1032.6
85°	126.8	343.7	682.8	950.1	872.2
87.5°	56.5	256.6	597.3	740.9	692.0
90°	0.0	143.6	395.6	557.6	562.1
92.5°	3.1	119.1	365.1	510.2	525.5
95°	6.1	100.8	348.3	473.5	494.9
97.5°	7.6	88.6	326.9	439.9	458.3
100°	9.2	79.4	300.9	404.8	420.1
102.5°	10.7	73.3	276.5	368.1	380.4
105°	12.2	67.2	253.6	336.1	345.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	15.3	51.9	190.9	241.4	249.0
115°	16.8	47.4	171.1	213.9	218.4
117.5°	18.3	41.2	149.7	187.9	189.4
120°	18.3	36.7	128.3	160.4	160.4
122.5°	18.3	30.6	106.9	132.9	131.4
125°	18.3	24.4	87.1	110.0	108.5
127.5°	16.8	19.9	70.3	91.7	90.1
130°	16.8	19.9	56.5	77.9	77.9
132.5°	15.3	18.3	45.8	67.2	67.2
135°	15.3	18.3	38.2	59.6	59.6
137.5°	15.3	19.9	32.1	51.9	51.9
140°	15.3	18.3	27.5	45.8	45.8
142.5°	16.8	18.3	24.4	39.7	39.7
145°	18.3	19.9	22.9	35.1	33.6
147.5°	18.3	21.4	22.9	30.6	29.0
150°	18.3	22.9	22.9	27.5	26.0
152.5°	18.3	22.9	22.9	26.0	24.4
155°	18.3	22.9	24.4	26.0	22.9
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°	12.2	62.6	232.2	300.9	311.6
110°	13.7	56.5	212.3	268.8	279.5



(END OF REPORT)