

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: P830155

Luminaire Tested: **OHBL-24SE-W-UNV-L830-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830155
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-24SE-W-UNV-L830-CD
Description: 24000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

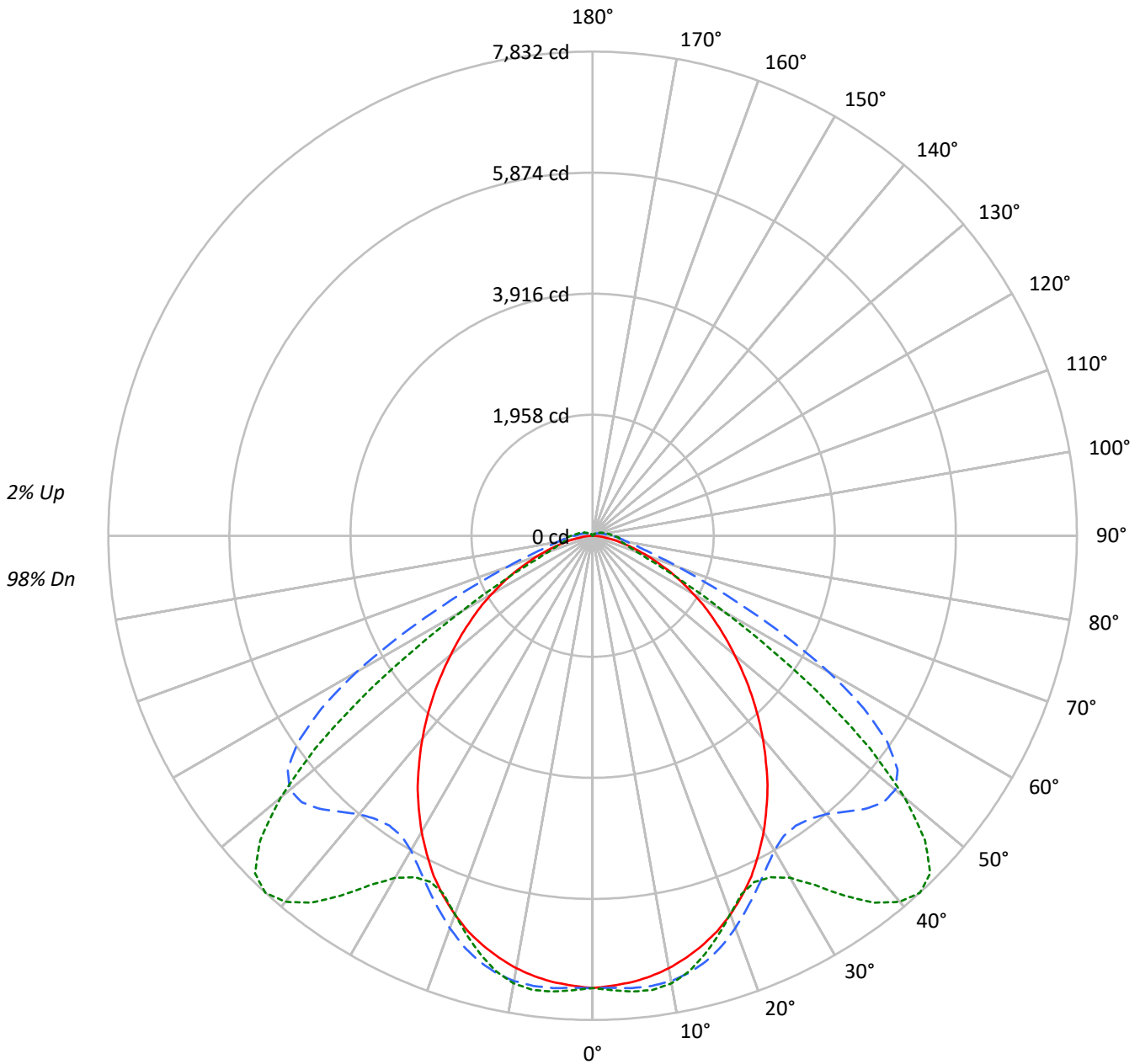
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21906.0 lumens
Efficiency: N/A
Efficacy: 158.7 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
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	105	105	105	100	100	100	98																			
1	109	104	100	96	106	102	98	95	97	94	91	93	90	88	89	87	85	83																			
2	99	91	85	79	96	89	83	78	85	80	76	82	77	74	78	75	72	70																			
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	69	65	61	59																			
4	83	71	62	56	80	69	61	55	67	60	54	64	58	53	62	57	52	50																			
5	76	63	54	48	74	62	54	47	60	52	47	57	51	46	55	50	45	43																			
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	38																			
7	65	51	43	36	63	50	42	36	49	41	36	47	40	35	45	40	35	33																			
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29																			
9	56	43	34	29	55	42	34	29	41	34	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	39	31	26	38	31	26	36	30	26	35	30	25	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12496	12496	12496
5°	12380	12478	12577
10°	12224	12459	12531
15°	11986	12253	12069
20°	11659	11832	11419
25°	11222	11322	11130
30°	10640	10943	11908
35°	9977	11145	13847
40°	9208	12071	15897
45°	8403	13692	16953
50°	7563	15140	15631
55°	6774	15120	11812
60°	5971	12791	7123
65°	5123	8832	4239
70°	4163	5709	2987
75°	3167	4090	2670
80°	2273	3591	2833
85°	1543	3944	3940



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	699.1	3.2
10°-20°	1979.8	9.0
20°-30°	2897.1	13.2
30°-40°	3762.4	17.2
40°-50°	4594.4	21.0
50°-60°	4046.1	18.5
60°-70°	2108.4	9.6
70°-80°	904.2	4.1
80°-90°	434.2	2.0
90°-100°	204.0	0.9
100°-110°	126.8	0.6
110°-120°	75.0	0.3
120°-130°	40.8	0.2
130°-140°	20.5	0.1
140°-150°	9.8	0.0
150°-160°	3.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5576.0	25.5
0°-40°	9338.4	42.6
0°-60°	17978.9	82.1
0°-90°	21425.8	97.8
90°-120°	405.8	1.9
90°-150°	476.8	2.2
90°-180°	480.0	2.2
0°-180°	21906.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7316	7316	7316	7316	7316	
5°	7248	7304	7343	7408	7400	687
15°	6858	7051	7119	7065	7008	1931
25°	6077	6402	6293	6175	6181	2789
35°	4933	5454	5727	6678	7106	3074
45°	3632	4570	6246	7562	7720	2801
55°	2418	4003	5817	5100	4533	2170
65°	1388	2773	2663	1481	1274	1373
75°	559	1298	856	586	556	609
85°	118	462	436	426	431	132
90°	2	167	287	328	336	8
95°	3	98	229	268	276	2
105°	6	55	148	178	182	7
115°	10	32	92	112	115	10
125°	11	16	54	70	71	9
135°	10	10	25	43	44	7
145°	13	10	11	20	24	7
155°	13	13	10	10	10	4
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7316.2	7316.2	7316.2	7316.2	7316.2
2.5°	7284.6	7316.2	7317.8	7362.0	7357.2
5°	7248.3	7303.6	7343.0	7407.8	7399.9
7.5°	7188.3	7275.2	7344.6	7415.6	7409.3
10°	7103.1	7221.5	7313.0	7371.5	7352.5
12.5°	6992.6	7148.9	7238.9	7251.5	7215.2
15°	6858.4	7051.0	7118.9	7065.2	7008.4
17.5°	6706.9	6932.6	6956.3	6839.5	6768.5
20°	6517.5	6774.8	6751.1	6590.1	6511.2
22.5°	6307.6	6601.2	6525.4	6356.5	6280.7
25°	6077.1	6402.3	6293.4	6175.0	6181.3
27.5°	5807.2	6176.5	6070.8	6124.5	6225.5
30°	5532.5	5939.8	5875.1	6187.6	6386.5
32.5°	5231.0	5696.7	5755.1	6372.3	6697.4
35°	4932.7	5453.6	5726.7	6678.5	7106.3
37.5°	4602.8	5207.4	5772.5	7032.1	7480.4
40°	4282.4	4967.4	5876.6	7349.4	7728.2
42.5°	3955.6	4752.8	6051.9	7537.2	7832.4
45°	3632.1	4569.7	6246.0	7562.4	7720.3
47.5°	3308.5	4415.0	6380.2	7362.0	7289.4
50°	2995.9	4277.7	6389.6	6880.5	6583.8
52.5°	2703.9	4151.4	6216.0	6113.4	5652.5
55°	2418.2	4003.0	5816.7	5100.0	4533.4
57.5°	2157.8	3797.8	5201.1	4010.9	3392.1
60°	1881.5	3520.0	4405.5	2934.4	2446.6
62.5°	1627.4	3174.3	3513.7	2042.5	1758.4
65°	1387.5	2773.4	2662.9	1480.6	1273.8
67.5°	1133.3	2358.2	1965.2	1079.7	947.1
70°	934.5	1973.1	1463.2	839.7	762.4
72.5°	730.8	1606.9	1093.9	681.9	639.3
75°	558.8	1297.5	855.5	585.6	555.6
77.5°	412.0	1026.0	688.2	517.7	489.3
80°	288.9	808.2	576.1	462.5	451.4
82.5°	194.2	625.1	490.9	440.4	442.0
85°	118.4	462.5	435.7	426.2	430.9
87.5°	56.8	328.3	374.1	388.3	393.0
90°	1.6	167.3	287.3	328.3	336.2
92.5°	0.0	127.9	252.6	293.6	301.5
95°	3.2	97.9	228.9	268.3	276.2
97.5°	3.2	80.5	205.2	246.2	251.0
100°	4.7	69.5	183.1	222.6	227.3
102.5°	4.7	61.6	164.2	198.9	202.0
105°	6.3	55.2	148.4	178.4	181.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	9.5	37.9	104.2	126.3	129.4
115°	9.5	31.6	91.6	112.1	115.2
117.5°	11.0	28.4	80.5	99.4	101.0
120°	11.0	23.7	69.5	88.4	90.0
122.5°	11.0	18.9	61.6	78.9	80.5
125°	11.0	15.8	53.7	69.5	71.0
127.5°	9.5	11.0	45.8	61.6	63.1
130°	9.5	9.5	37.9	53.7	56.8
132.5°	9.5	9.5	31.6	47.4	50.5
135°	9.5	9.5	25.3	42.6	44.2
137.5°	9.5	9.5	20.5	36.3	39.5
140°	9.5	9.5	15.8	31.6	33.1
142.5°	11.0	9.5	14.2	26.8	28.4
145°	12.6	9.5	11.0	20.5	23.7
147.5°	12.6	11.0	11.0	17.4	18.9
150°	12.6	12.6	9.5	12.6	15.8
152.5°	12.6	12.6	9.5	9.5	12.6
155°	12.6	12.6	9.5	9.5	9.5
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°	7.9	48.9	132.6	159.4	162.6
110°	7.9	42.6	116.8	142.1	145.2



(END OF REPORT)