

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: P830143

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830143
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-24SE-NL-UNV-L830-CD
Description: 24000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

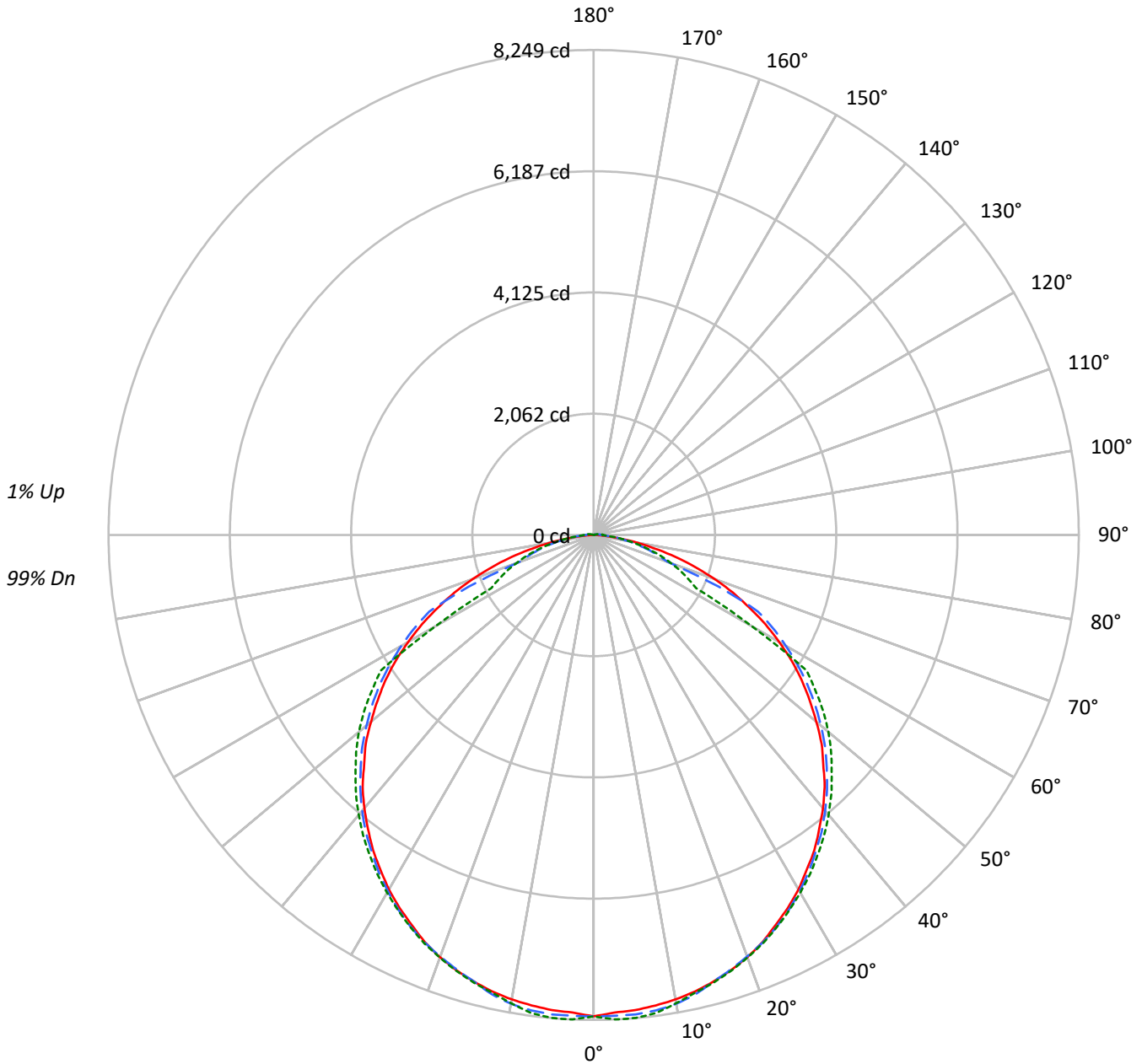
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22991.0 lumens
Efficiency: N/A
Efficacy: 166.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.67' x L: 3.78' x H: 0')
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102					99															
1	109	105	100	97	106	102	99	95	98	95	92	94	91	89	90	88	86					84															
2	99	92	85	79	97	90	84	78	86	81	76	83	78	75	80	76	73					71															
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62					60															
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53					51															
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46					44															
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41					39															
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36					34															
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32					30															
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29					27															
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26					25															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13986	13986	13986
5°	13909	14035	14141
10°	13913	14045	14028
15°	13911	13908	13939
20°	13892	13871	13905
25°	13797	13867	13878
30°	13733	13804	13858
35°	13644	13719	13847
40°	13526	13654	13856
45°	13331	13532	13827
50°	13130	13398	13840
55°	12879	13213	13688
60°	12447	12889	10656
65°	11777	12461	7172
70°	10893	6615	6960
75°	9501	6286	6647
80°	7306	5767	6091
85°	3688	5828	5969



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	778.0	3.4
10°-20°	2227.5	9.7
20°-30°	3389.4	14.7
30°-40°	4121.0	17.9
40°-50°	4333.0	18.8
50°-60°	3956.6	17.2
60°-70°	2536.4	11.0
70°-80°	1198.1	5.2
80°-90°	332.2	1.4
90°-100°	88.0	0.4
100°-110°	24.1	0.1
110°-120°	6.7	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	6394.9	27.8
0°-40°	10515.9	45.7
0°-60°	18805.5	81.8
0°-90°	22872.3	99.5
90°-120°	118.7	0.5
90°-150°	118.7	0.5
90°-180°	119.0	0.5
0°-180°	22991.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8189	8189	8189	8189	8189	
5°	8113	8144	8186	8230	8248	772
15°	7867	7926	7866	7877	7883	2221
25°	7321	7332	7358	7370	7364	3378
35°	6544	6505	6580	6660	6641	4089
45°	5519	5509	5602	5735	5724	4266
55°	4325	4292	4437	4585	4597	3857
65°	2914	2914	3083	1769	1775	2889
75°	1440	1467	953	1003	1007	1518
85°	188	238	297	322	305	278
90°	0	80	132	156	154	8
95°	4	42	95	128	128	2
105°	7	16	23	23	22	7
115°	7	10	14	10	1	5
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8188.8	8188.8	8188.8	8188.8	<i>8188.8</i>
2.5°	<i>8131.3</i>	<i>8158.7</i>	<i>8188.8</i>	<i>8227.6</i>	<i>8249.0</i>
5°	8112.6	8144.2	8185.9	8230.5	<i>8247.7</i>
7.5°	8072.4	8116.8	8157.2	8188.8	<i>8198.8</i>
10°	8022.1	8075.3	8098.3	8095.4	<i>8088.2</i>
12.5°	7954.5	8010.7	8003.5	7970.3	<i>7976.1</i>
15°	7866.9	7925.8	7865.5	7876.9	<i>7882.7</i>
17.5°	7763.5	7821.0	7750.5	7773.5	<i>7775.0</i>
20°	7642.8	7685.9	7631.3	7650.0	<i>7650.0</i>
22.5°	7497.7	7527.8	7504.8	7517.8	<i>7520.7</i>
25°	7320.9	7332.3	7358.2	7369.8	<i>7364.0</i>
27.5°	7151.5	7137.0	7187.4	7214.6	<i>7200.1</i>
30°	6963.1	6940.2	6999.0	7043.6	<i>7026.4</i>
32.5°	6747.6	6733.3	6800.8	6853.9	<i>6843.9</i>
35°	6543.6	6504.8	6579.5	6659.9	<i>6641.2</i>
37.5°	6302.1	6279.2	6363.9	6448.8	<i>6438.7</i>
40°	6066.5	6027.7	6124.0	6224.5	<i>6214.5</i>
42.5°	5813.7	5767.6	5872.5	5993.3	<i>5981.8</i>
45°	5519.0	5508.9	5602.4	5734.6	<i>5724.5</i>
47.5°	5257.6	5207.3	5338.0	5465.9	<i>5477.5</i>
50°	4941.4	4922.8	5042.1	5197.2	<i>5208.6</i>
52.5°	4632.5	4619.6	4744.5	4901.2	<i>4921.3</i>
55°	4324.9	4291.9	4437.1	4585.1	<i>4596.6</i>
57.5°	3996.1	3961.5	4109.5	4270.5	<i>4294.8</i>
60°	3643.9	3610.9	3773.2	3922.7	<i>3119.5</i>
62.5°	3291.9	3268.9	3438.5	2435.5	<i>1962.9</i>
65°	2914.0	2914.0	3083.4	1768.8	<i>1774.6</i>
67.5°	2560.6	2537.6	2299.1	1589.1	<i>1589.1</i>
70°	2181.2	2189.9	1324.7	1392.4	<i>1393.8</i>
72.5°	1800.4	1832.1	1143.8	1198.3	<i>1201.2</i>
75°	1439.7	1467.1	952.6	1003.0	<i>1007.2</i>
77.5°	1057.6	813.3	765.8	804.7	<i>806.1</i>
80°	742.8	513.0	586.3	623.6	<i>619.3</i>
82.5°	433.9	359.2	429.6	457.0	<i>455.5</i>
85°	188.2	238.5	297.4	321.9	<i>304.6</i>
87.5°	60.2	148.0	185.3	199.7	<i>198.2</i>
90°	0.0	80.5	132.2	156.5	<i>153.8</i>
92.5°	0.0	63.1	115.0	143.8	<i>145.1</i>
95°	4.3	41.7	94.9	127.9	<i>127.9</i>
97.5°	2.9	30.1	67.5	100.6	<i>103.4</i>
100°	2.9	24.3	44.6	71.8	<i>73.3</i>
102.5°	7.1	20.1	27.2	45.9	<i>47.5</i>
105°	7.1	15.8	23.0	23.0	<i>21.6</i>



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	8.7	11.6	15.8	11.6	1.4
115°	7.1	10.0	14.3	10.0	1.4
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
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°	7.1	14.3	20.1	12.9	4.3
110°	8.7	12.9	17.2	11.6	1.4



(END OF REPORT)