

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: P826559

Luminaire Tested: **OHBL-24SE-NL-UNV-L830-CD-UPL36**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P826559
REPORT IS A COMBINATION OF REPORTS P826309 AND G3-2310-221-2
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-UPL36
Description:
Light Source: -
Ballast/Driver: -

Summary

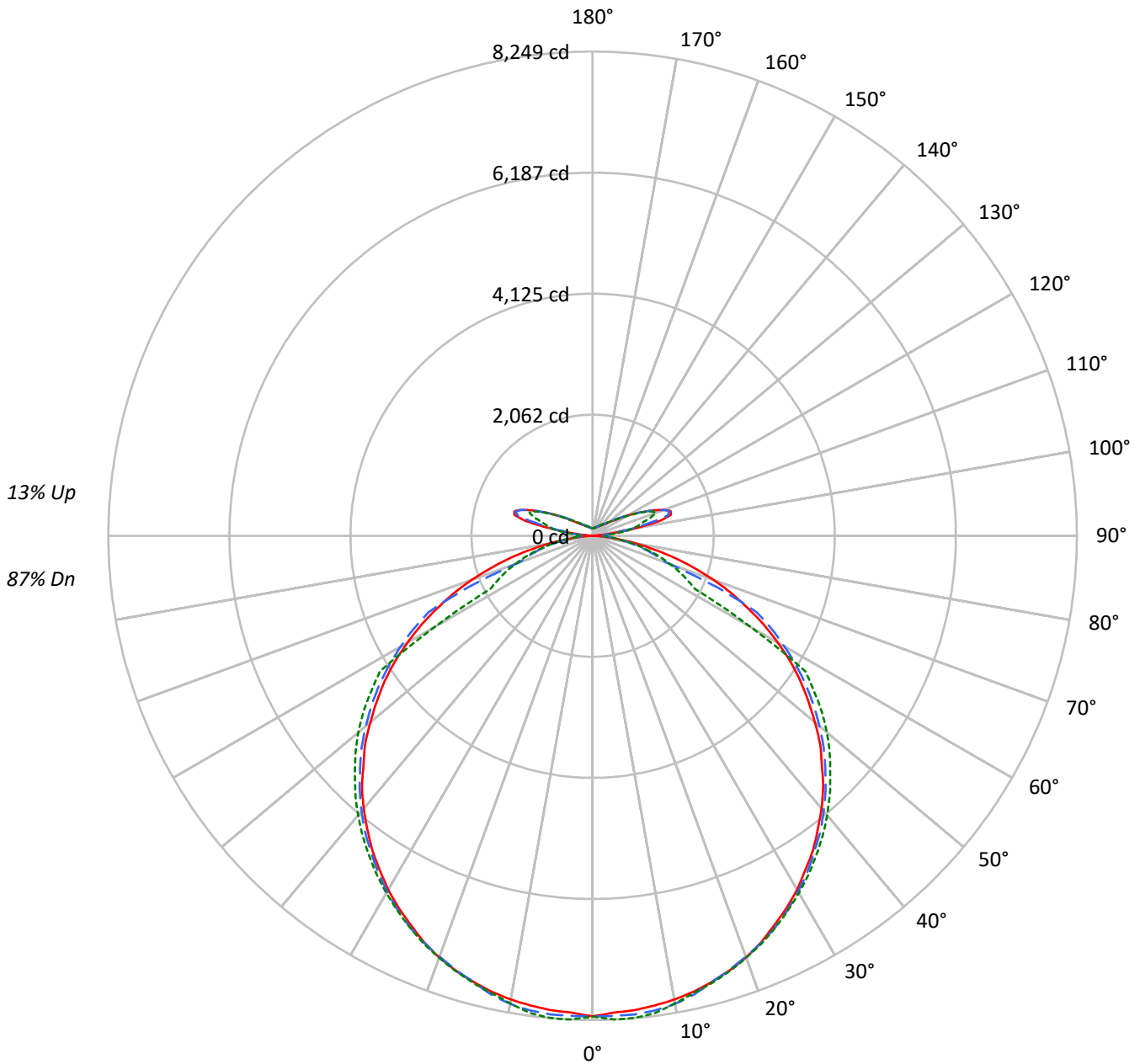
Lumens per Lamp: N/A
Luminaire Lumens: 26324.6 lumens
Efficiency: N/A
Efficacy: 157.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 166.8
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					20					
RC	80					70					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	50	30	10	0		
RCR																										
0	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87								
1	106	102	98	94	102	98	95	91	92	89	86	86	83	81	80	78	77	74								
2	97	89	83	77	93	86	80	75	80	76	71	75	71	68	70	67	65	62								
3	88	78	71	64	85	76	69	63	71	65	60	67	62	57	62	58	55	52								
4	81	69	61	54	78	67	59	53	63	56	51	59	54	49	56	51	47	45								
5	74	62	53	47	71	60	52	46	56	50	44	53	47	43	50	45	41	39								
6	69	56	47	41	66	54	46	40	51	44	39	48	42	37	45	40	36	34								
7	64	50	42	36	61	49	41	35	46	39	34	44	38	33	41	36	32	30								
8	59	46	38	32	57	45	37	31	42	35	30	40	34	30	38	33	29	27								
9	55	42	34	29	53	41	33	28	39	32	27	37	31	27	35	30	26	24								
10	52	39	31	26	50	38	30	25	36	29	25	34	28	24	32	27	23	22								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13987	13987	13987
5°	13837	13960	14108
10°	13767	13895	13963
15°	13691	13684	13841
20°	13595	13569	13772
25°	13421	13483	13709
30°	13273	13333	13649
35°	13094	13156	13596
40°	12878	12988	13555
45°	12576	12753	13471
50°	12254	12488	13417
55°	11862	12152	13190
60°	11276	11655	10189
65°	10434	11018	6787
70°	9351	5664	6489
75°	7763	5119	6050
80°	5452	4282	5297
85°	2188	3431	4584



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	778.0	3.0
10°-20°	2227.6	8.5
20°-30°	3389.4	12.9
30°-40°	4121.1	15.7
40°-50°	4333.1	16.5
50°-60°	3956.6	15.0
60°-70°	2536.4	9.6
70°-80°	1198.1	4.6
80°-90°	339.4	1.3
90°-100°	344.0	1.3
100°-110°	1183.7	4.5
110°-120°	966.4	3.7
120°-130°	454.2	1.7
130°-140°	230.0	0.9
140°-150°	134.4	0.5
150°-160°	78.8	0.3
160°-170°	41.0	0.2
170°-180°	12.5	0.0
0°-30°	6394.9	24.3
0°-40°	10516.0	39.9
0°-60°	18805.7	71.4
0°-90°	22879.6	86.9
90°-120°	2494.0	9.5
90°-150°	3312.6	12.6
90°-180°	3445.0	13.1
0°-180°	26324.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8189	8189	8189	8189	8189	
5°	8113	8144	8186	8231	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	5725	4266
55°	4325	4292	4437	4585	4597	3857
65°	2914	2914	3084	1769	1775	2889
75°	1440	1467	953	1003	1007	1518
85°	188	238	297	322	305	278
90°	7	126	191	224	222	13
95°	62	157	248	323	338	217
105°	1382	1388	1313	982	888	1314
115°	966	956	967	970	952	974
125°	472	488	500	491	482	444
135°	279	286	293	296	297	221
145°	203	208	212	215	216	129
155°	164	167	169	171	171	77
165°	140	142	143	144	145	40
175°	128	128	129	129	130	12
180°	127	127	127	127	127	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8188.9	8188.9	8188.9	8188.9	<i>8188.9</i>
2.5°	<i>8131.4</i>	<i>8158.7</i>	<i>8188.9</i>	<i>8227.7</i>	<i>8249.1</i>
5°	8112.7	8144.3	8186.0	8230.6	<i>8247.8</i>
7.5°	8072.5	8117.0	8157.2	8188.9	<i>8198.9</i>
10°	8022.1	8075.4	8098.3	8095.5	<i>8088.3</i>
12.5°	7954.6	8010.8	8003.6	7970.4	<i>7976.3</i>
15°	7867.0	7925.8	7865.6	7877.1	<i>7882.8</i>
17.5°	7763.5	7821.0	7750.6	7773.6	<i>7775.1</i>
20°	7642.9	7685.9	7631.3	7650.0	<i>7650.0</i>
22.5°	7497.8	7527.9	7504.9	7517.9	<i>7520.8</i>
25°	7321.0	7332.4	7358.3	7369.8	<i>7364.0</i>
27.5°	7151.5	7137.1	7187.4	7214.7	<i>7200.2</i>
30°	6963.2	6940.2	6999.1	7043.7	<i>7026.4</i>
32.5°	6747.6	6733.3	6800.9	6854.0	<i>6844.0</i>
35°	6543.7	6504.9	6579.5	6660.0	<i>6641.3</i>
37.5°	6302.2	6279.2	6364.0	6448.8	<i>6438.8</i>
40°	6066.6	6027.8	6124.1	6224.6	<i>6214.5</i>
42.5°	5813.7	5767.6	5872.6	5993.3	<i>5981.8</i>
45°	5519.0	5509.0	5602.4	5734.6	<i>5724.6</i>
47.5°	5257.7	5207.3	5338.0	5466.0	<i>5477.5</i>
50°	4941.4	4922.8	5042.1	5197.3	<i>5208.7</i>
52.5°	4632.6	4619.6	4744.5	4901.2	<i>4921.3</i>
55°	4325.0	4292.0	4437.1	4585.1	<i>4596.7</i>
57.5°	3996.1	3961.6	4109.6	4270.5	<i>4294.9</i>
60°	3644.0	3610.9	3773.2	3922.8	<i>3119.5</i>
62.5°	3291.9	3268.9	3438.6	2435.5	<i>1962.9</i>
65°	2914.0	2914.0	3083.5	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°	1439.8	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°	742.9	513.0	586.3	623.6	<i>619.3</i>
82.5°	433.8	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	148.1	185.3	199.8	<i>198.2</i>
90°	7.4	126.1	190.9	223.5	<i>221.8</i>
92.5°	23.3	118.9	186.7	233.1	<i>240.1</i>
95°	62.0	157.1	248.5	323.4	<i>338.3</i>
97.5°	350.9	404.2	392.3	488.6	<i>513.9</i>
100°	750.1	791.2	639.2	671.1	<i>691.2</i>
102.5°	1177.8	1206.6	965.3	822.1	<i>795.6</i>
105°	1381.6	1387.5	1312.7	982.4	<i>887.9</i>



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1134.6	1140.3	1134.3	1126.3	1086.4
115°	965.6	955.5	967.2	969.5	951.5
117.5°	819.8	810.5	818.0	814.2	804.0
120°	689.5	689.5	698.8	685.8	678.4
122.5°	571.4	584.4	590.9	581.6	569.5
125°	471.8	488.5	499.7	491.3	482.0
127.5°	404.8	410.4	423.4	418.8	418.8
130°	348.0	355.5	365.7	367.6	365.7
132.5°	308.9	316.4	325.7	328.5	331.3
135°	279.2	285.7	293.1	295.9	296.8
137.5°	255.0	260.6	266.1	270.8	271.7
140°	234.5	240.1	245.7	249.4	249.4
142.5°	217.8	223.3	228.0	230.8	230.8
145°	202.9	207.5	212.2	215.0	215.9
147.5°	191.7	195.4	200.1	201.0	201.9
150°	181.5	184.2	188.0	189.8	190.8
152.5°	172.2	174.9	178.7	179.6	180.5
155°	163.8	166.6	169.4	171.2	171.2
157.5°	156.3	159.1	161.9	162.8	162.8
160°	150.8	152.6	155.4	155.4	156.3
162.5°	145.2	147.0	148.9	149.8	150.8
165°	140.5	142.4	143.3	144.2	145.2
167.5°	136.8	137.7	138.7	139.6	139.6
170°	133.1	134.0	134.9	134.9	135.9
172.5°	130.3	131.2	132.1	132.1	132.1
175°	128.4	128.4	129.3	129.3	130.3
177.5°	126.6	127.5	127.5	127.5	128.4
180°	126.6	126.6	126.6	126.6	126.6



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	1394.6	1404.6	1376.8	1207.8	1037.2
110°	1289.1	1305.5	1288.4	1229.6	1146.0



(END OF REPORT)