

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: P826557

Luminaire Tested: **OHBL-24SE-NL-UNV-L830-CD-UPL12**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P826557
REPORT IS A COMBINATION OF REPORTS P826081 AND G3-2310-221-12
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-UPL12
Description:
Light Source: -
Ballast/Driver: -

Summary

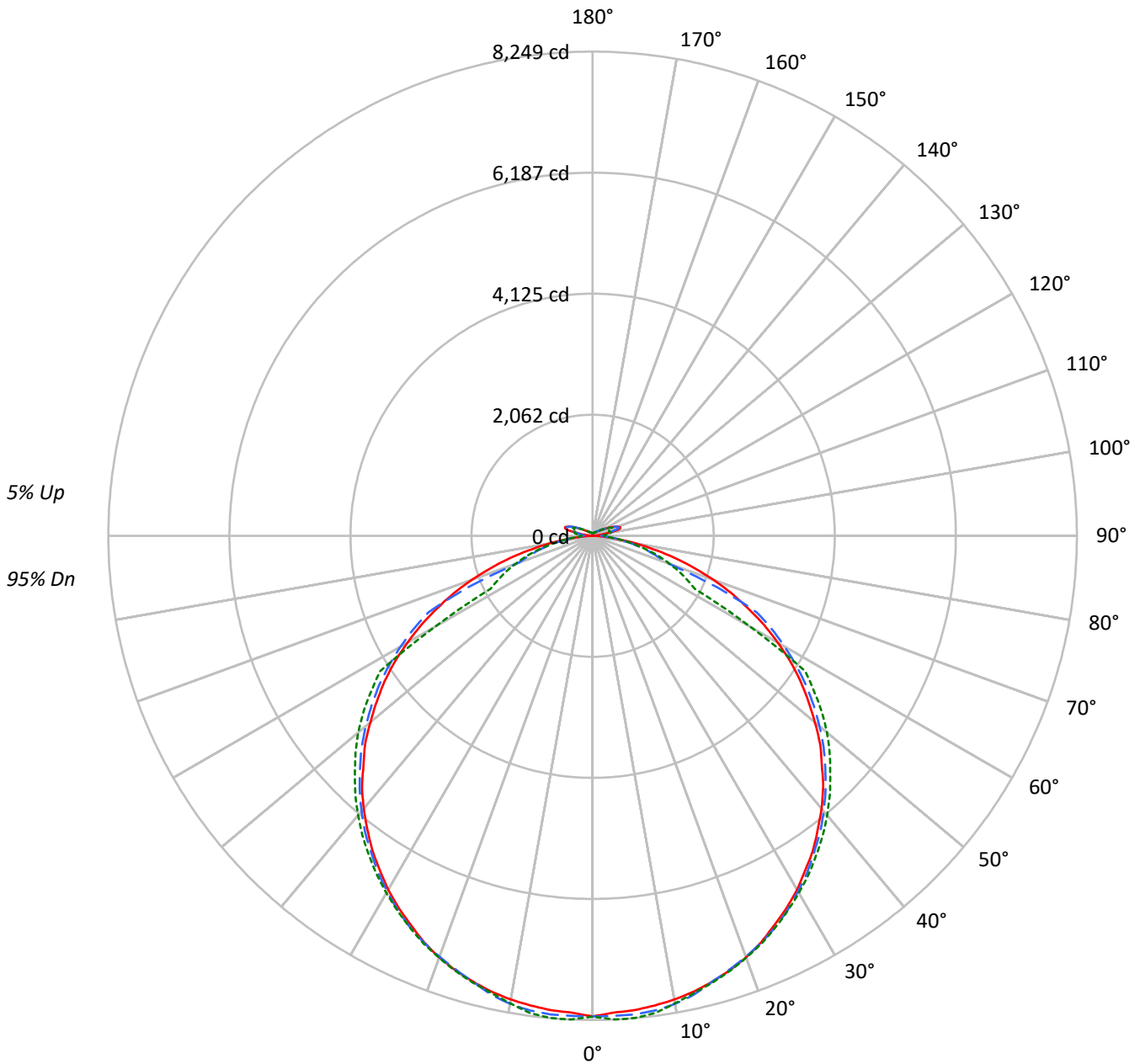
Lumens per Lamp: N/A
Luminaire Lumens: 24150.1 lumens
Efficiency: N/A
Efficacy: 165.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.1')
CIE Type: Direct

Input Watts (W): 146.4
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	114	114	114	114	108	108	108	102	102	102	97	97	97	95																			
1	108	103	99	96	105	101	97	94	96	93	90	91	88	86	86	84	83	80																			
2	99	91	84	78	95	88	82	77	84	79	75	80	76	72	76	73	70	67																			
3	90	80	72	65	87	78	70	65	74	68	63	71	65	61	67	63	59	57																			
4	82	71	62	56	80	69	61	55	66	59	54	63	57	52	60	55	51	49																			
5	76	63	54	48	73	62	53	47	59	52	46	56	50	45	54	49	44	42																			
6	70	57	48	42	68	56	47	41	53	46	40	51	45	40	49	43	39	37																			
7	65	51	43	37	63	50	42	36	48	41	36	46	40	35	45	39	35	33																			
8	60	47	38	33	58	46	38	32	44	37	32	43	36	31	41	35	31	29																			
9	56	43	35	29	55	42	34	29	41	34	29	39	33	28	38	32	28	26																			
10	53	40	32	27	51	39	31	26	38	31	26	36	30	26	35	29	25	24																			

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	3.2
10°-20°	2227.6	9.2
20°-30°	3389.4	14.0
30°-40°	4121.1	17.1
40°-50°	4333.1	17.9
50°-60°	3956.6	16.4
60°-70°	2536.4	10.5
70°-80°	1198.1	5.0
80°-90°	335.2	1.4
90°-100°	198.7	0.8
100°-110°	409.3	1.7
110°-120°	337.5	1.4
120°-130°	158.6	0.7
130°-140°	79.3	0.3
140°-150°	46.1	0.2
150°-160°	26.9	0.1
160°-170°	14.0	0.1
170°-180°	4.2	0.0
0°-30°	6394.9	26.5
0°-40°	10516.0	43.5
0°-60°	18805.7	77.9
0°-90°	22875.4	94.7
90°-120°	945.5	3.9
90°-150°	1229.6	5.1
90°-180°	1275.0	5.3
0°-180°	24150.1	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°	3	97	155	185	186	10
95°	28	96	175	236	253	79
105°	488	491	429	310	286	462
115°	342	345	350	343	329	340
125°	164	170	174	172	173	153
135°	95	98	101	102	102	76
145°	70	72	73	74	74	44
155°	56	57	58	59	59	26
165°	48	48	49	49	49	14
175°	44	44	44	44	44	4
180°	43	43	43	43	43	



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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°	2.8	97.2	154.6	185.4	<i>186.4</i>
92.5°	8.4	84.5	150.4	194.0	<i>200.1</i>
95°	27.5	95.7	174.9	235.9	<i>252.6</i>
97.5°	128.5	166.9	222.0	283.0	<i>295.2</i>
100°	259.7	300.8	274.4	311.9	<i>318.1</i>
102.5°	415.7	423.0	321.3	312.1	<i>308.9</i>
105°	488.3	491.3	428.7	310.5	<i>285.9</i>



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	397.6	403.3	404.8	385.6	359.7
115°	342.2	345.0	350.3	343.2	329.0
117.5°	281.0	284.8	287.5	284.8	282.9
120°	235.4	241.0	242.9	239.2	239.2
122.5°	198.2	202.9	205.7	202.9	203.8
125°	163.8	170.3	174.0	172.2	173.1
127.5°	136.8	142.4	148.9	148.0	148.0
130°	119.1	122.8	127.5	128.4	128.4
132.5°	106.1	108.9	112.6	113.5	114.5
135°	94.9	97.7	101.4	102.4	102.4
137.5°	87.5	89.3	92.1	93.1	94.0
140°	80.0	82.8	84.7	85.6	85.6
142.5°	74.4	76.3	78.2	79.1	80.0
145°	69.8	71.7	72.6	73.5	74.4
147.5°	65.1	67.0	68.9	68.9	69.8
150°	62.3	63.3	64.2	65.1	65.1
152.5°	58.6	59.6	60.5	61.4	61.4
155°	55.8	56.8	57.7	58.6	58.6
157.5°	53.0	54.9	54.9	55.8	55.8
160°	51.2	52.1	53.0	53.0	53.0
162.5°	49.3	50.2	50.2	51.2	51.2
165°	48.4	48.4	49.3	49.3	49.3
167.5°	46.5	46.5	47.5	47.5	47.5
170°	45.6	45.6	45.6	46.5	46.5
172.5°	44.7	44.7	44.7	44.7	44.7
175°	43.7	43.7	43.7	43.7	43.7
177.5°	42.8	43.7	43.7	43.7	43.7
180°	42.8	42.8	42.8	42.8	42.8



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	491.1	500.1	467.7	360.0	291.8
110°	451.6	462.4	446.2	402.4	344.8



(END OF REPORT)