

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: P826558

Luminaire Tested: **OHBL-24SE-NL-UNV-L830-CD-UPL24**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P826558
REPORT IS A COMBINATION OF REPORTS P826249 AND G3-2310-221-6
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-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

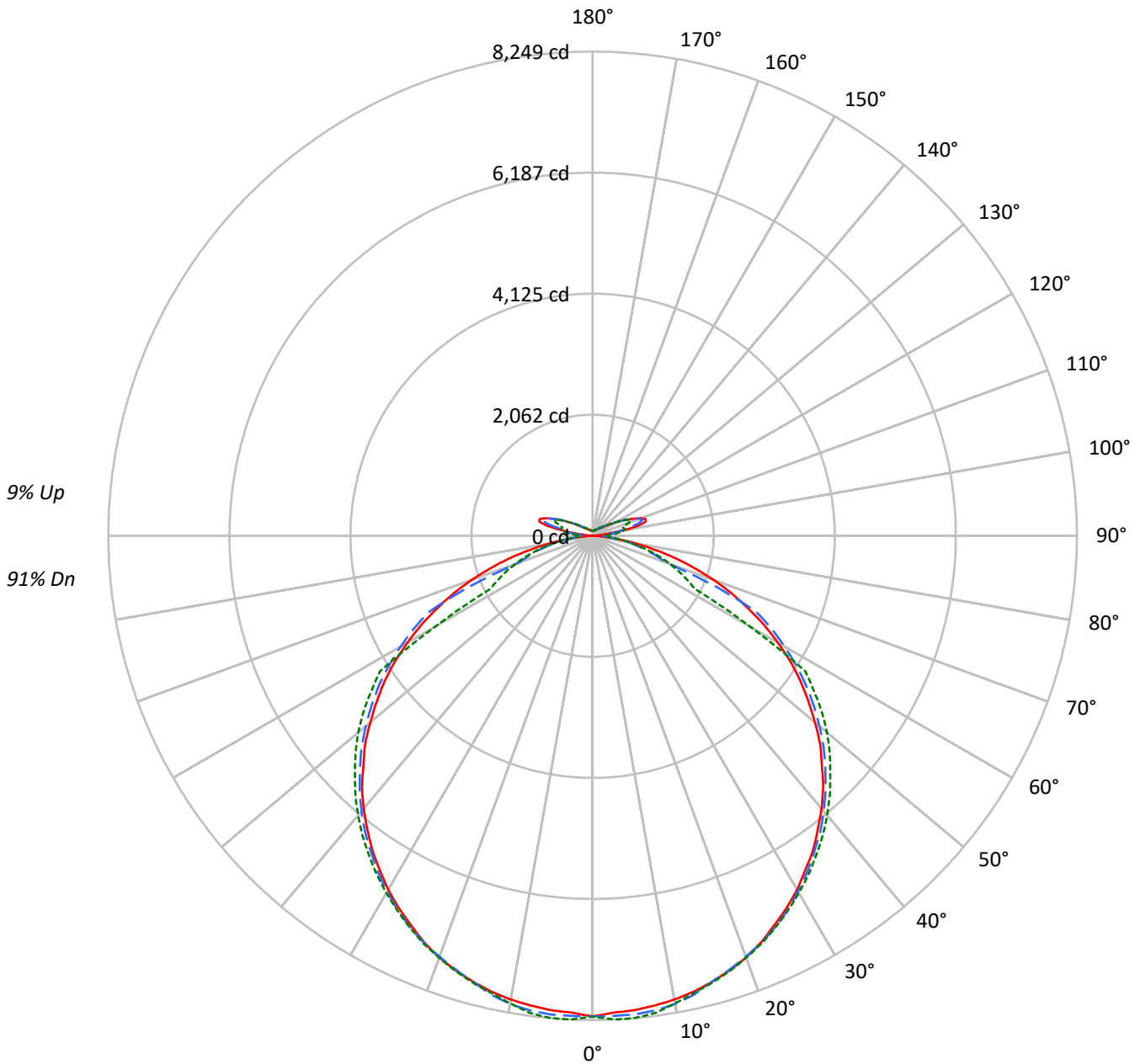
Lumens per Lamp: N/A
Luminaire Lumens: 25243.4 lumens
Efficiency: N/A
Efficacy: 162.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.1')
CIE Type: Direct

Input Watts (W): 155.4
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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	91																			
1	107	103	99	95	103	99	96	92	93	91	88	88	86	84	83	81	79	77																			
2	98	90	83	78	94	87	81	76	82	77	73	77	73	70	73	70	67	64																			
3	89	79	71	65	86	77	69	64	72	66	61	68	63	59	65	61	57	54																			
4	82	70	61	55	79	68	60	54	64	58	52	61	55	51	58	53	49	47																			
5	75	62	54	47	72	61	53	47	58	51	45	55	49	44	52	47	43	40																			
6	69	56	47	41	67	55	47	41	52	45	40	49	43	38	47	42	37	35																			
7	64	51	42	36	62	50	42	36	47	40	35	45	39	34	43	37	33	31																			
8	60	46	38	32	58	45	37	32	43	36	31	41	35	30	39	34	30	28																			
9	56	42	34	29	54	41	34	29	40	33	28	38	32	27	36	31	27	25																			
10	52	39	31	26	50	38	31	26	37	30	25	35	29	25	34	28	24	23																			

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	3.1
10°-20°	2227.6	8.8
20°-30°	3389.4	13.4
30°-40°	4121.1	16.3
40°-50°	4333.1	17.2
50°-60°	3956.6	15.7
60°-70°	2536.4	10.0
70°-80°	1198.1	4.7
80°-90°	338.0	1.3
90°-100°	303.7	1.2
100°-110°	773.1	3.1
110°-120°	649.2	2.6
120°-130°	308.2	1.2
130°-140°	154.2	0.6
140°-150°	89.4	0.4
150°-160°	52.1	0.2
160°-170°	27.0	0.1
170°-180°	8.2	0.0
0°-30°	6394.9	25.3
0°-40°	10516.0	41.7
0°-60°	18805.7	74.5
0°-90°	22878.2	90.6
90°-120°	1726.0	6.8
90°-150°	2277.9	9.0
90°-180°	2365.0	9.4
0°-180°	25243.4	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°	5	112	176	214	218	12
95°	54	145	255	340	368	156
105°	940	939	808	582	535	893
115°	651	660	665	659	644	655
125°	314	331	338	337	334	295
135°	186	190	196	198	200	147
145°	135	139	141	142	143	86
155°	108	110	112	113	113	51
165°	93	94	95	95	95	27
175°	84	85	85	86	86	8
180°	84	84	84	84	84	



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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°	4.7	112.1	176.0	214.2	<i>218.0</i>
92.5°	15.8	105.0	182.0	238.7	<i>252.2</i>
95°	53.6	145.0	255.0	340.1	<i>368.0</i>
97.5°	253.2	300.9	358.8	453.3	<i>486.9</i>
100°	516.6	569.7	484.7	537.1	<i>547.0</i>
102.5°	800.9	809.2	602.3	561.5	<i>555.5</i>
105°	940.5	938.9	808.4	582.2	<i>535.3</i>



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	760.5	774.6	764.0	738.3	698.4
115°	651.1	660.5	664.8	658.6	644.4
117.5°	550.9	551.8	555.5	554.6	555.5
120°	456.0	466.2	474.6	469.9	464.3
122.5°	382.5	393.6	399.2	397.3	391.8
125°	314.5	331.3	337.8	336.9	334.1
127.5°	266.1	278.2	287.5	288.5	287.5
130°	231.7	239.2	248.5	249.4	250.3
132.5°	205.7	212.2	218.7	222.4	221.5
135°	186.1	189.8	196.3	198.2	200.1
137.5°	170.3	173.1	178.7	181.5	181.5
140°	156.3	160.1	164.7	166.6	167.5
142.5°	144.2	148.0	151.7	153.5	153.5
145°	134.9	138.7	141.4	142.4	143.3
147.5°	126.6	130.3	132.1	134.0	134.0
150°	120.0	121.9	124.7	125.6	126.6
152.5°	113.5	115.4	118.2	119.1	119.1
155°	107.9	109.8	111.7	112.6	112.6
157.5°	103.3	105.2	107.0	107.9	107.9
160°	99.6	100.5	102.4	103.3	103.3
162.5°	95.8	96.8	97.7	98.6	98.6
165°	93.1	94.0	94.9	94.9	94.9
167.5°	90.3	90.3	91.2	92.1	92.1
170°	87.5	88.4	88.4	89.3	89.3
172.5°	85.6	86.5	86.5	86.5	87.5
175°	83.8	84.7	84.7	85.6	85.6
177.5°	83.8	83.8	83.8	83.8	83.8
180°	83.8	83.8	83.8	83.8	83.8



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	944.2	955.1	888.3	691.3	569.1
110°	873.1	885.8	848.2	770.9	669.5



(END OF REPORT)