

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: P826539

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P826539
REPORT IS A COMBINATION OF REPORTS P826075 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-24HE-NL-UNV-L830-CD-UPL12
Description:
Light Source: -
Ballast/Driver: -

Summary

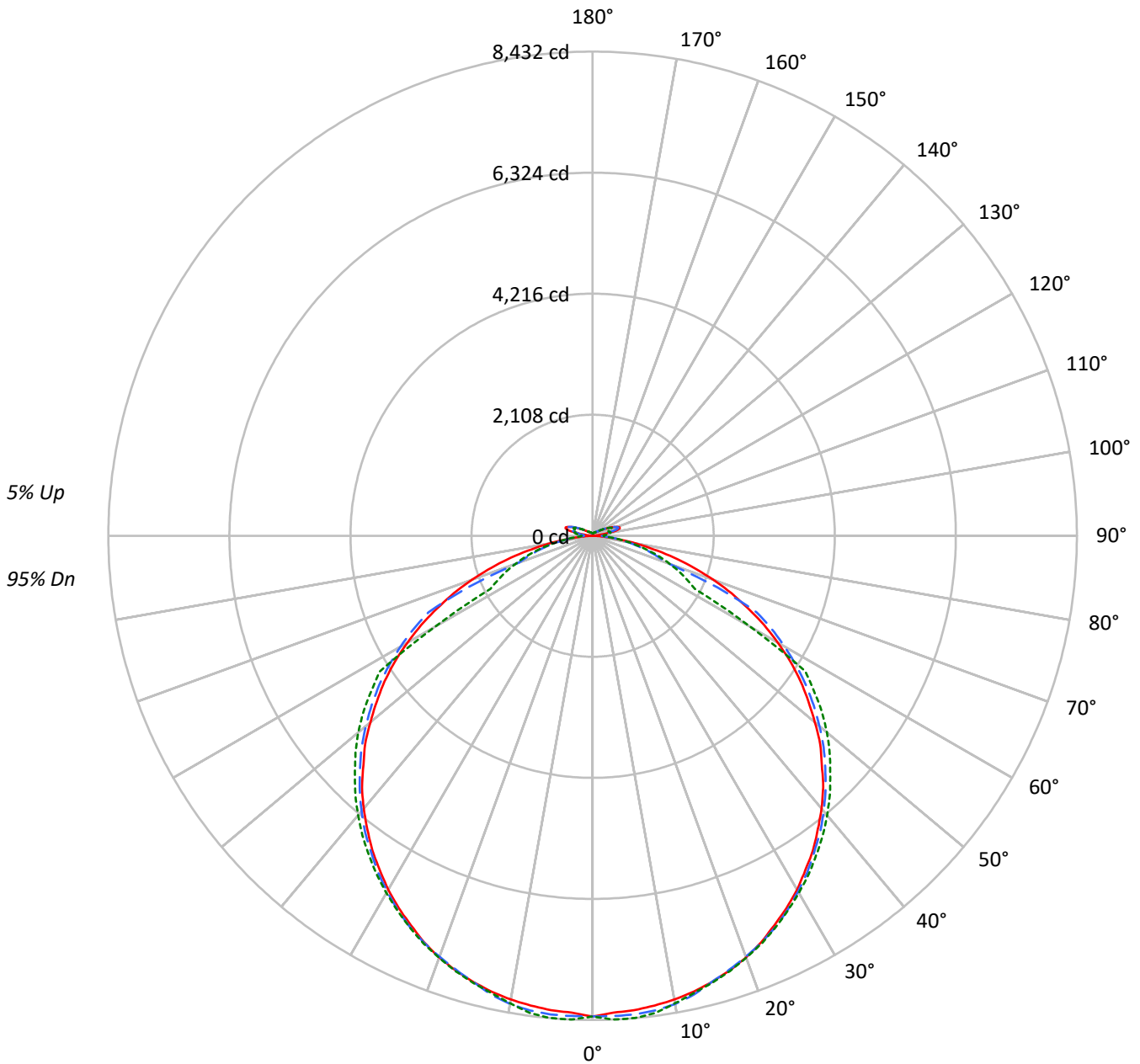
Lumens per Lamp: N/A
Luminaire Lumens: 24661.0 lumens
Efficiency: N/A
Efficacy: 174.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 141.4
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				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	0
RCR																					
0	118	118	118	118	114	114	114	114	108	108	108	103	103	103	97	97	97	97	97	97	95
1	108	104	99	96	105	101	97	94	96	93	90	91	88	86	86	85	83	86	85	83	80
2	99	91	84	78	95	88	82	77	84	79	75	80	76	72	76	73	70	76	73	70	67
3	90	80	72	65	87	78	70	65	74	68	63	71	65	61	67	63	59	67	63	59	57
4	82	71	62	56	80	69	61	55	66	59	54	63	57	52	60	55	51	60	55	51	49
5	76	63	54	48	73	62	53	47	59	52	46	56	50	45	54	49	44	54	49	44	42
6	70	57	48	42	68	56	47	41	53	46	41	51	45	40	49	43	39	49	43	39	37
7	65	51	43	37	63	50	42	36	48	41	36	46	40	35	45	39	35	45	39	35	33
8	60	47	38	33	58	46	38	32	44	37	32	43	36	31	41	35	31	41	35	31	29
9	56	43	35	29	55	42	34	29	41	34	29	39	33	28	38	32	28	38	32	28	26
10	53	40	32	27	51	39	31	26	38	31	26	36	30	26	35	29	25	35	29	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13238	13238	13238
5°	13101	13217	13353
10°	13041	13159	13216
15°	12973	12963	13100
20°	12888	12857	13035
25°	12729	12780	12975
30°	12594	12642	12919
35°	12430	12478	12869
40°	12232	12324	12830
45°	11954	12106	12751
50°	11656	11861	12700
55°	11294	11550	12484
60°	10747	11086	9644
65°	9960	10491	6424
70°	8945	5401	6142
75°	7449	4892	5727
80°	5258	4108	5014
85°	2134	3317	4339



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	795.3	3.2
10°-20°	2277.1	9.2
20°-30°	3464.7	14.0
30°-40°	4212.6	17.1
40°-50°	4429.4	18.0
50°-60°	4044.6	16.4
60°-70°	2592.8	10.5
70°-80°	1224.8	5.0
80°-90°	342.5	1.4
90°-100°	200.6	0.8
100°-110°	409.8	1.7
110°-120°	337.7	1.4
120°-130°	158.6	0.6
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°	6537.0	26.5
0°-40°	10749.6	43.6
0°-60°	19223.6	78.0
0°-90°	23383.7	94.8
90°-120°	948.1	3.8
90°-150°	1232.2	5.0
90°-180°	1277.0	5.2
0°-180°	24661.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8371	8371	8371	8371	8371	
5°	8293	8325	8368	8413	8431	789
15°	8042	8102	8040	8052	8058	2270
25°	7484	7495	7522	7534	7528	3453
35°	6689	6649	6726	6808	6789	4180
45°	5642	5631	5727	5862	5852	4361
55°	4421	4387	4536	4687	4699	3943
65°	2979	2979	3152	1808	1814	2953
75°	1472	1500	974	1025	1030	1551
85°	192	244	304	329	311	284
90°	3	99	157	189	190	10
95°	28	97	177	239	255	79
105°	488	492	429	311	286	463
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°	8370.8	8370.8	8370.8	8370.8	<i>8370.8</i>
2.5°	<i>8312.1</i>	<i>8340.0</i>	<i>8370.8</i>	<i>8410.5</i>	<i>8432.4</i>
5°	8292.9	8325.3	8367.9	8413.4	<i>8431.0</i>
7.5°	8251.9	8297.3	8338.5	8370.8	<i>8381.1</i>
10°	8200.4	8254.9	8278.3	8275.3	<i>8268.1</i>
12.5°	8131.4	8188.7	8181.4	8147.6	<i>8153.4</i>
15°	8041.8	8102.0	8040.4	8052.1	<i>8058.0</i>
17.5°	7936.1	7994.9	7922.8	7946.3	<i>7947.9</i>
20°	7812.8	7856.8	7800.9	7820.0	<i>7820.0</i>
22.5°	7664.3	7695.1	7671.7	7684.9	<i>7687.9</i>
25°	7483.7	7495.3	7521.8	7533.6	<i>7527.6</i>
27.5°	7310.4	7295.6	7347.1	7374.9	<i>7360.2</i>
30°	7117.9	7094.5	7154.6	7200.2	<i>7182.6</i>
32.5°	6897.6	6882.9	6952.0	7006.2	<i>6996.0</i>
35°	6689.0	6649.4	6725.7	6807.9	<i>6788.9</i>
37.5°	6442.2	6418.8	6505.3	6592.1	<i>6581.9</i>
40°	6201.3	6161.7	6260.1	6363.0	<i>6352.6</i>
42.5°	5942.9	5895.8	6003.1	6126.6	<i>6114.8</i>
45°	5641.7	5631.4	5726.9	5862.0	<i>5851.8</i>
47.5°	5374.5	5323.1	5456.6	5587.4	<i>5599.2</i>
50°	5051.2	5032.3	5154.2	5312.8	<i>5324.5</i>
52.5°	4735.5	4722.3	4850.0	5010.2	<i>5030.7</i>
55°	4421.1	4387.4	4535.7	4687.0	<i>4698.8</i>
57.5°	4084.9	4049.6	4200.9	4365.4	<i>4390.3</i>
60°	3724.9	3691.1	3857.1	4010.0	<i>3188.8</i>
62.5°	3365.1	3341.5	3515.0	2489.7	<i>2006.6</i>
65°	2978.8	2978.8	3152.0	1808.1	<i>1814.0</i>
67.5°	2617.5	2594.0	2350.2	1624.5	<i>1624.5</i>
70°	2229.7	2238.5	1354.1	1423.4	<i>1424.8</i>
72.5°	1840.5	1872.7	1169.2	1225.0	<i>1227.9</i>
75°	1471.8	1499.7	973.8	1025.3	<i>1029.7</i>
77.5°	1081.1	831.4	782.8	822.6	<i>824.0</i>
80°	759.3	524.4	599.4	637.4	<i>633.1</i>
82.5°	443.5	367.2	439.1	467.1	<i>465.6</i>
85°	192.3	243.8	304.0	329.0	<i>311.4</i>
87.5°	61.6	151.3	189.4	204.2	<i>202.6</i>
90°	2.8	99.0	157.4	188.9	<i>189.8</i>
92.5°	8.4	86.0	152.9	197.2	<i>203.2</i>
95°	27.6	96.6	177.1	238.7	<i>255.4</i>
97.5°	128.6	167.6	223.5	285.2	<i>297.4</i>
100°	259.8	301.2	275.4	313.5	<i>319.6</i>
102.5°	415.9	423.5	321.9	313.1	<i>310.0</i>
105°	488.4	491.7	429.2	311.0	<i>286.3</i>



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	397.8	403.6	405.2	385.9	359.7
115°	342.4	345.2	350.5	343.4	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°	491.2	500.4	468.2	360.3	291.9
110°	451.8	462.7	446.6	402.7	344.8



(END OF REPORT)