

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: P826523

Luminaire Tested: **OHBL-18SE-NL-UNV-L830-CD-UPL24**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P826523
REPORT IS A COMBINATION OF REPORTS P826237 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-18SE-NL-UNV-L830-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

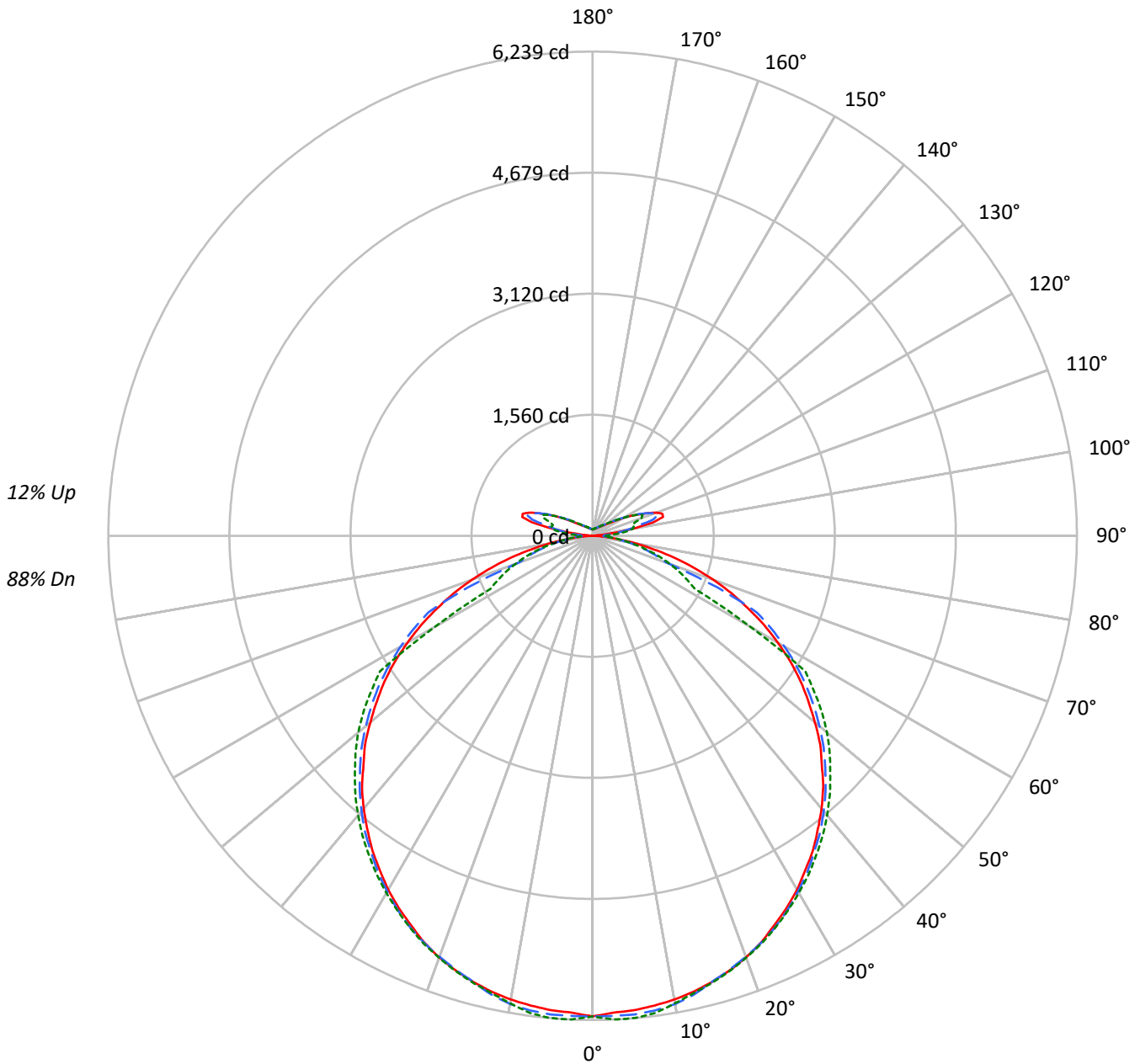
Lumens per Lamp: N/A
Luminaire Lumens: 19641.4 lumens
Efficiency: N/A
Efficacy: 160.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 122.4
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				
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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	91	91	91	88			88
1	107	102	98	94	103	99	95	92	92	89	87	86	84	82	81	79	77	75			75
2	97	89	83	77	93	86	80	75	81	76	72	76	72	69	71	68	65	63			63
3	89	79	71	64	85	76	69	63	71	65	61	67	62	58	63	59	56	53			53
4	81	70	61	55	78	67	60	54	63	57	52	60	54	50	56	52	48	45			45
5	75	62	53	47	72	60	52	46	57	50	45	54	48	43	51	46	42	39			39
6	69	56	47	41	66	54	46	40	51	44	39	49	42	38	46	41	37	34			34
7	64	51	42	36	61	49	41	35	47	40	34	44	38	33	42	36	32	30			30
8	59	46	38	32	57	45	37	32	43	36	31	40	34	30	38	33	29	27			27
9	55	42	34	29	53	41	34	28	39	32	28	37	31	27	35	30	26	24			24
10	52	39	31	26	50	38	31	26	36	30	25	34	28	24	33	28	24	22			22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10579	10579	10579
5°	10465	10559	10671
10°	10413	10510	10561
15°	10355	10350	10468
20°	10282	10263	10417
25°	10151	10198	10369
30°	10039	10084	10324
35°	9904	9950	10283
40°	9740	9824	10252
45°	9512	9646	10189
50°	9268	9445	10148
55°	8972	9191	9976
60°	8528	8815	7707
65°	7892	8333	5133
70°	7073	4284	4908
75°	5871	3872	4576
80°	4124	3239	4006
85°	1655	2595	3466



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	588.4	3.0
10°-20°	1684.8	8.6
20°-30°	2563.6	13.1
30°-40°	3116.9	15.9
40°-50°	3277.3	16.7
50°-60°	2992.6	15.2
60°-70°	1918.4	9.8
70°-80°	906.2	4.6
80°-90°	257.0	1.3
90°-100°	282.3	1.4
100°-110°	767.2	3.9
110°-120°	647.6	3.3
120°-130°	308.2	1.6
130°-140°	154.2	0.8
140°-150°	89.4	0.5
150°-160°	52.1	0.3
160°-170°	27.0	0.1
170°-180°	8.2	0.0
0°-30°	4836.8	24.6
0°-40°	7953.7	40.5
0°-60°	14223.6	72.4
0°-90°	17305.2	88.1
90°-120°	1697.1	8.6
90°-150°	2248.9	11.4
90°-180°	2336.0	11.9
0°-180°	19641.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6194	6194	6194	6194	6194	
5°	6136	6160	6192	6225	6238	584
15°	5950	5995	5949	5958	5962	1680
25°	5537	5546	5565	5574	5570	2555
35°	4949	4920	4976	5037	5023	3093
45°	4174	4167	4237	4337	4330	3226
55°	3271	3246	3356	3468	3477	2917
65°	2204	2204	2332	1338	1342	2185
75°	1089	1110	720	759	762	1148
85°	142	180	225	243	230	210
90°	5	92	144	176	180	10
95°	53	135	232	309	337	155
105°	939	935	803	577	530	891
115°	649	658	661	656	644	653
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°	6193.6	6193.6	6193.6	6193.6	6193.6
2.5°	6150.1	6170.8	6193.6	6223.0	6239.2
5°	6136.0	6159.9	6191.5	6225.1	6238.2
7.5°	6105.6	6139.2	6169.7	6193.6	6201.2
10°	6067.5	6107.8	6125.2	6123.0	6117.6
12.5°	6016.4	6058.8	6053.4	6028.4	6032.8
15°	5950.2	5994.6	5949.1	5957.8	5962.1
17.5°	5871.9	5915.4	5862.1	5879.5	5880.6
20°	5780.7	5813.2	5772.0	5786.1	5786.1
22.5°	5670.9	5693.7	5676.3	5686.1	5688.3
25°	5537.2	5545.8	5565.4	5574.1	5569.7
27.5°	5409.0	5398.1	5436.2	5456.8	5445.8
30°	5266.6	5249.2	5293.7	5327.4	5314.4
32.5°	5103.5	5092.7	5143.8	5183.9	5176.4
35°	4949.3	4919.8	4976.4	5037.3	5023.1
37.5°	4766.7	4749.3	4813.4	4877.5	4870.0
40°	4588.4	4559.1	4631.9	4708.0	4700.3
42.5°	4397.2	4362.4	4441.7	4533.0	4524.3
45°	4174.3	4166.7	4237.4	4337.3	4329.8
47.5°	3976.6	3938.6	4037.4	4134.2	4142.9
50°	3737.4	3723.3	3813.6	3930.9	3939.6
52.5°	3503.8	3494.0	3588.5	3707.1	3722.2
55°	3271.2	3246.2	3356.0	3467.9	3476.6
57.5°	3022.4	2996.3	3108.2	3230.0	3248.4
60°	2756.0	2731.1	2853.8	2967.0	2359.4
62.5°	2489.8	2472.4	2600.7	1842.1	1484.6
65°	2204.0	2204.0	2332.2	1337.9	1342.1
67.5°	1936.7	1919.4	1738.9	1201.9	1201.9
70°	1649.8	1656.3	1001.9	1053.1	1054.2
72.5°	1361.8	1385.7	865.1	906.4	908.5
75°	1088.9	1109.7	720.5	758.6	761.8
77.5°	799.9	615.1	579.2	608.7	609.7
80°	561.9	387.9	443.4	471.6	468.4
82.5°	328.1	271.6	325.0	345.6	344.5
85°	142.4	180.4	224.9	243.4	230.3
87.5°	45.6	111.9	140.1	151.0	149.9
90°	4.7	92.5	143.7	176.1	180.5
92.5°	15.8	89.6	154.0	203.6	216.8
95°	52.6	134.8	231.9	308.9	336.9
97.5°	252.5	293.6	342.4	428.7	461.6
100°	515.8	563.7	473.8	519.6	529.1
102.5°	799.2	804.3	595.6	550.2	544.0
105°	938.7	935.1	802.8	576.7	530.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	758.4	771.8	760.2	735.5	698.0
115°	649.3	658.1	661.3	656.2	644.0
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°	942.5	951.6	883.4	688.1	568.1
110°	871.0	882.6	844.0	768.1	669.2



(END OF REPORT)