

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: P826522

Luminaire Tested: **OHBL-18SE-NL-UNV-L830-CD-UPL18**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P826522
REPORT IS A COMBINATION OF REPORTS P826165 AND G3-2310-221-8
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-UPL18
Description:
Light Source: -
Ballast/Driver: -

Summary

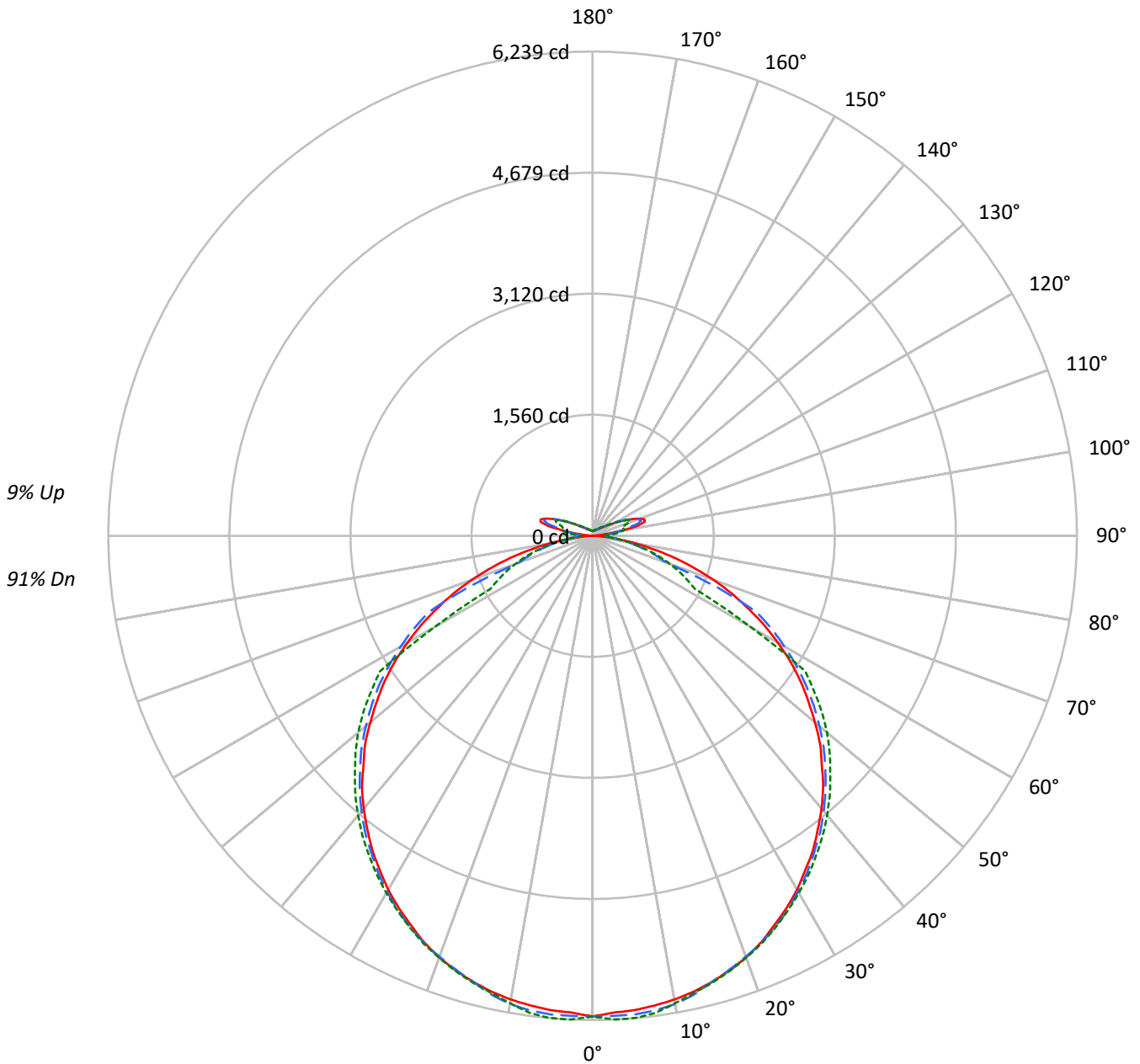
Lumens per Lamp: N/A
Luminaire Lumens: 19054.8 lumens
Efficiency: N/A
Efficacy: 162.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.1')
CIE Type: Direct

Input Watts (W): 117.3
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

TEST NUMBER: P826522

CATALOG NUMBER: OHBL-18SE-NL-UNV-L830-CD-UPL18

Luminous Intensity Polar Plot





TEST NUMBER: P826522

CATALOG NUMBER: OHBL-18SE-NL-UNV-L830-CD-UPL18

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	100	100	100	94	94	94	91																			
1	107	103	99	95	104	99	96	93	94	91	88	88	86	84	83	81	80	77																			
2	98	90	83	78	94	87	81	76	82	77	73	78	74	70	73	70	67	65																			
3	89	79	71	65	86	77	70	64	72	66	61	69	63	59	65	61	57	55																			
4	82	70	61	55	79	68	60	54	64	58	52	61	55	51	58	53	49	47																			
5	75	63	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	50	43	39	47	42	38	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	42	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°	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



TEST NUMBER: P826522

CATALOG NUMBER: OHBL-18SE-NL-UNV-L830-CD-UPL18

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	588.4	3.1
10°-20°	1684.8	8.8
20°-30°	2563.6	13.5
30°-40°	3116.9	16.4
40°-50°	3277.3	17.2
50°-60°	2992.6	15.7
60°-70°	1918.4	10.1
70°-80°	906.2	4.8
80°-90°	255.4	1.3
90°-100°	225.9	1.2
100°-110°	571.5	3.0
110°-120°	480.5	2.5
120°-130°	228.3	1.2
130°-140°	114.0	0.6
140°-150°	66.2	0.3
150°-160°	38.6	0.2
160°-170°	20.0	0.1
170°-180°	6.1	0.0
0°-30°	4836.8	25.4
0°-40°	7953.7	41.7
0°-60°	14223.6	74.6
0°-90°	17303.6	90.8
90°-120°	1277.9	6.7
90°-150°	1686.4	8.9
90°-180°	1751.0	9.2
0°-180°	19054.8	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°	4	84	132	160	163	9
95°	39	108	192	252	274	113
105°	695	695	600	428	395	660
115°	483	491	493	484	476	485
125°	233	244	250	249	248	219
135°	138	140	145	147	148	109
145°	100	102	105	106	106	64
155°	80	82	83	84	84	38
165°	69	70	70	71	71	20
175°	62	62	63	63	63	6
180°	62	62	62	62	62	



TEST NUMBER: P826522

CATALOG NUMBER: OHBL-18SE-NL-UNV-L830-CD-UPL18

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°	3.7	84.1	131.6	160.2	162.8
92.5°	12.1	78.4	138.2	179.4	188.0
95°	38.6	107.9	191.9	252.2	274.5
97.5°	183.6	221.0	272.6	338.4	355.6
100°	376.2	411.1	363.1	399.6	406.3
102.5°	590.7	599.6	443.0	416.2	411.9
105°	694.9	695.0	599.9	427.8	395.1



TEST NUMBER: P826522

CATALOG NUMBER: OHBL-18SE-NL-UNV-L830-CD-UPL18

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	566.7	572.7	564.8	546.6	515.6
115°	482.8	490.6	492.8	484.1	476.5
117.5°	406.7	409.4	411.3	409.4	410.4
120°	339.7	346.2	349.9	347.1	345.2
122.5°	283.8	292.2	296.8	294.1	292.2
125°	232.6	243.8	250.3	249.4	247.5
127.5°	197.3	205.7	214.0	213.1	211.2
130°	171.2	177.7	183.3	184.2	185.2
132.5°	153.5	156.3	161.9	162.8	164.7
135°	137.7	140.5	145.2	147.0	148.0
137.5°	125.6	128.4	132.1	134.0	134.9
140°	115.4	118.2	121.0	122.8	123.8
142.5°	107.0	109.8	112.6	113.5	114.5
145°	100.5	102.4	105.2	106.1	106.1
147.5°	94.0	95.8	97.7	99.6	99.6
150°	88.4	90.3	92.1	93.1	94.0
152.5°	84.7	85.6	87.5	88.4	88.4
155°	80.0	81.9	82.8	83.8	83.8
157.5°	77.2	78.2	79.1	80.0	80.0
160°	74.4	74.4	75.4	76.3	76.3
162.5°	71.7	71.7	72.6	73.5	73.5
165°	68.9	69.8	69.8	70.7	70.7
167.5°	67.0	67.0	67.9	67.9	68.9
170°	65.1	65.1	66.1	66.1	66.1
172.5°	63.3	64.2	64.2	64.2	64.2
175°	62.3	62.3	63.3	63.3	63.3
177.5°	61.4	62.3	62.3	62.3	62.3
180°	62.3	62.3	62.3	62.3	62.3



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	701.5	706.8	657.3	508.5	421.1
110°	643.9	654.6	630.0	569.9	497.9



(END OF REPORT)