

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: P829999

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829999
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)
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
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

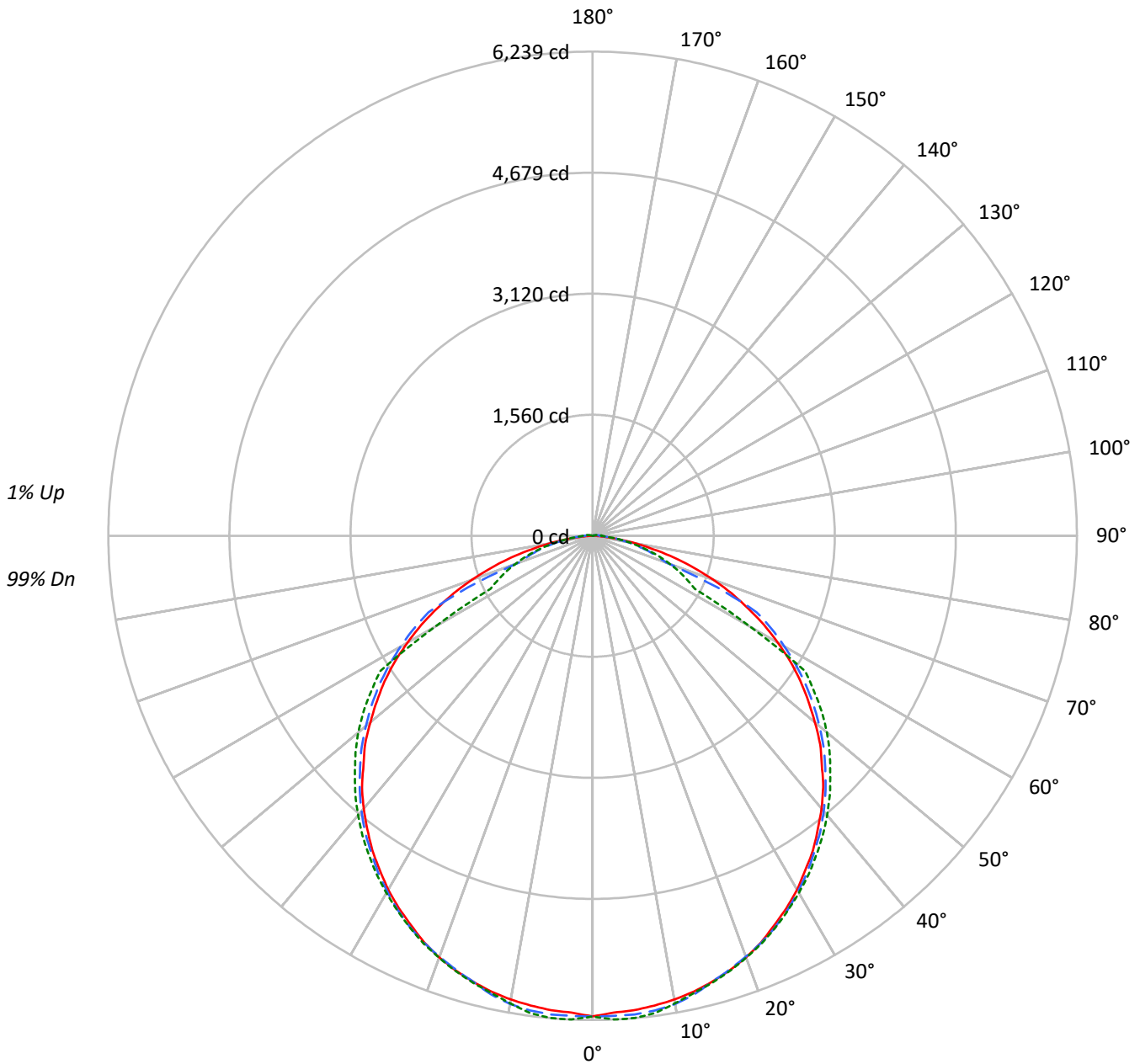
Lumens per Lamp: N/A
Luminaire Lumens: 17389.0 lumens
Efficiency: N/A
Efficacy: 165.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.67' x L: 3.78' x H: 0')
CIE Type: Direct

Input Watts (W): 105
Input Voltage (V): NR
Input Current (Ain): 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: P829999

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

Luminous Intensity Polar Plot





TEST NUMBER: P829999

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

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	99																			
1	109	105	100	97	106	102	99	95	98	95	92	94	91	89	90	88	86	84																			
2	99	92	85	79	97	90	84	78	86	81	76	83	78	75	80	76	73	71																			
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62	60																			
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51																			
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44																			
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39																			
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34																			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30																			
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27																			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10578	10578	10578
5°	10520	10615	10695
10°	10523	10623	10610
15°	10521	10519	10542
20°	10507	10491	10517
25°	10435	10488	10496
30°	10387	10440	10481
35°	10319	10376	10473
40°	10230	10327	10480
45°	10083	10235	10458
50°	9931	10133	10468
55°	9741	9993	10353
60°	9414	9749	8060
65°	8907	9425	5424
70°	8238	5003	5264
75°	7186	4755	5027
80°	5526	4361	4607
85°	2789	4407	4513



TEST NUMBER: P829999

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	588.4	3.4
10°-20°	1684.8	9.7
20°-30°	2563.5	14.7
30°-40°	3116.9	17.9
40°-50°	3277.2	18.8
50°-60°	2992.5	17.2
60°-70°	1918.4	11.0
70°-80°	906.2	5.2
80°-90°	251.3	1.4
90°-100°	66.6	0.4
100°-110°	18.2	0.1
110°-120°	5.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4836.7	27.8
0°-40°	7953.6	45.7
0°-60°	14223.3	81.8
0°-90°	17299.2	99.5
90°-120°	89.8	0.5
90°-150°	89.8	0.5
90°-180°	90.0	0.5
0°-180°	17389.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6194	6194	6194	6194	6194	
5°	6136	6160	6191	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	244	230	210
90°	0	61	100	118	116	6
95°	3	32	72	97	97	2
105°	5	12	17	17	16	5
115°	5	8	11	8	1	4
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P829999

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6193.5	6193.5	6193.5	6193.5	6193.5
2.5°	6150.0	6170.7	6193.5	6222.9	6239.1
5°	6135.9	6159.8	6191.3	6225.0	6238.0
7.5°	6105.5	6139.1	6169.6	6193.5	6201.1
10°	6067.4	6107.7	6125.1	6122.9	6117.5
12.5°	6016.3	6058.8	6053.4	6028.3	6032.7
15°	5950.0	5994.6	5949.0	5957.6	5962.0
17.5°	5871.8	5915.3	5862.0	5879.4	5880.6
20°	5780.6	5813.1	5771.8	5786.0	5786.0
22.5°	5670.8	5693.6	5676.2	5686.0	5688.2
25°	5537.1	5545.7	5565.3	5574.0	5569.7
27.5°	5408.9	5398.0	5436.1	5456.7	5445.7
30°	5266.5	5249.1	5293.6	5327.3	5314.3
32.5°	5103.4	5092.6	5143.7	5183.9	5176.3
35°	4949.2	4919.8	4976.3	5037.2	5023.0
37.5°	4766.6	4749.2	4813.3	4877.5	4869.9
40°	4588.3	4559.0	4631.8	4707.9	4700.3
42.5°	4397.1	4362.2	4441.6	4533.0	4524.2
45°	4174.2	4166.6	4237.3	4337.3	4329.7
47.5°	3976.6	3938.5	4037.3	4134.1	4142.8
50°	3737.3	3723.3	3813.5	3930.9	3939.5
52.5°	3503.8	3494.0	3588.5	3707.0	3722.2
55°	3271.1	3246.2	3355.9	3467.9	3476.6
57.5°	3022.4	2996.3	3108.2	3229.9	3248.3
60°	2756.0	2731.0	2853.8	2966.9	2359.4
62.5°	2489.8	2472.4	2600.7	1842.1	1484.6
65°	2204.0	2204.0	2332.1	1337.8	1342.2
67.5°	1936.7	1919.3	1738.9	1201.9	1201.9
70°	1649.7	1656.3	1001.9	1053.1	1054.2
72.5°	1361.7	1385.7	865.1	906.3	908.5
75°	1088.9	1109.6	720.5	758.6	761.8
77.5°	799.9	615.1	579.2	608.7	609.7
80°	561.8	388.0	443.4	471.6	468.4
82.5°	328.1	271.7	324.9	345.6	344.5
85°	142.3	180.4	224.9	243.5	230.3
87.5°	45.6	112.0	140.1	151.1	149.9
90°	0.0	60.9	100.0	118.4	116.3
92.5°	0.0	47.7	87.0	108.7	109.8
95°	3.2	31.5	71.8	96.8	96.8
97.5°	2.2	22.8	51.1	76.1	78.2
100°	2.2	18.4	33.7	54.3	55.5
102.5°	5.4	15.2	20.6	34.7	35.9
105°	5.4	12.0	17.4	17.4	16.3



TEST NUMBER: P829999

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6.6	8.7	12.0	8.7	1.0
115°	5.4	7.6	10.8	7.6	1.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	5.4	10.8	15.2	9.8	3.2
110°	6.6	9.8	13.0	8.7	1.0



(END OF REPORT)