

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: P827119

Luminaire Tested: **OHBL-18SE-N-UNV-L840-CD-UPL18**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827119
REPORT IS A COMBINATION OF REPORTS P826164 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-N-UNV-L840-CD-UPL18
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NARROW LENS AND 1800 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

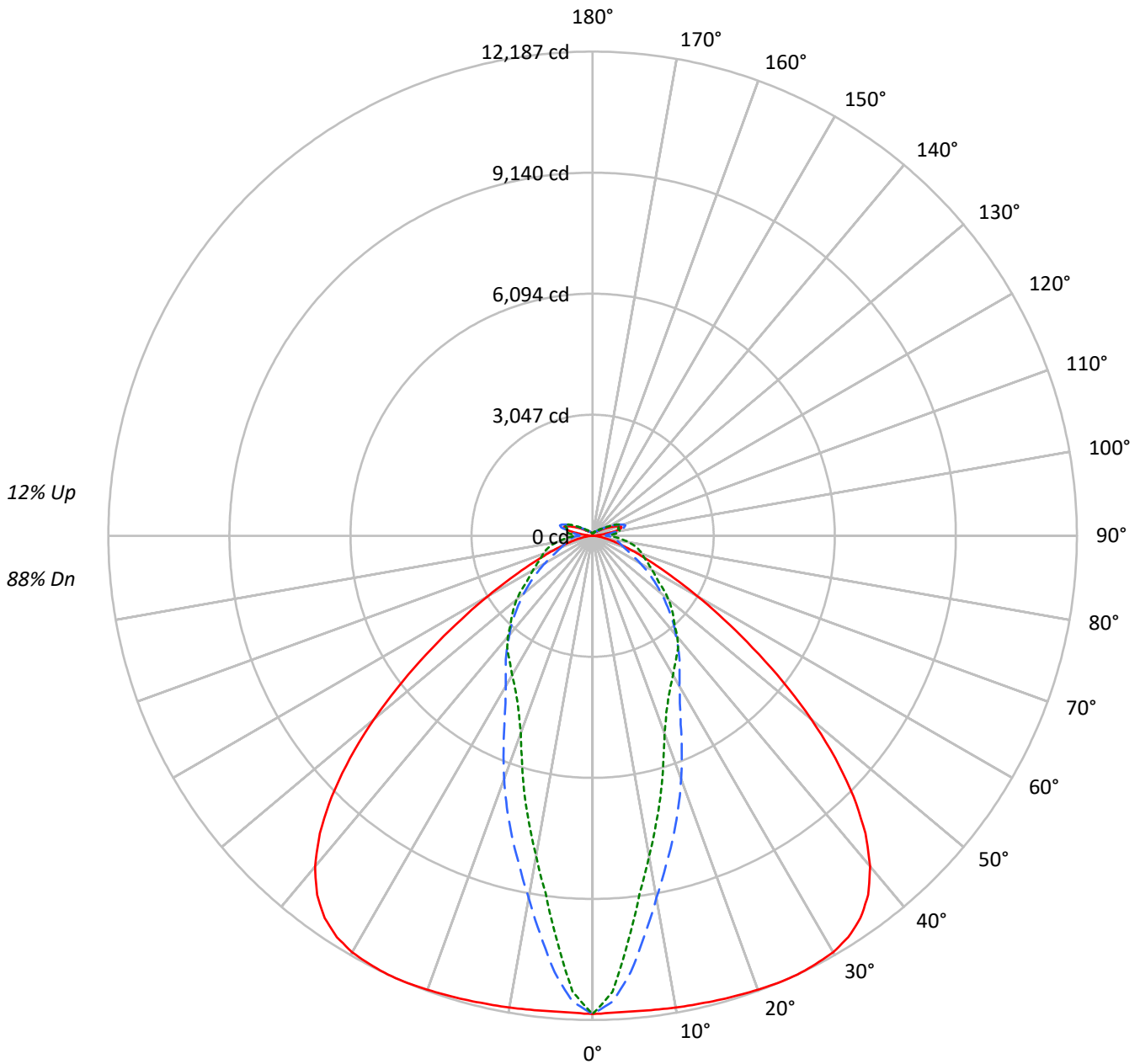
Lumens per Lamp: N/A
Luminaire Lumens: 19557.9 lumens
Efficiency: N/A
Efficacy: 166.7 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

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: P827119

CATALOG NUMBER: OHBL-18SE-N-UNV-L840-CD-UPL18

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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	91	91	91	88																			
1	107	102	98	95	103	99	95	92	92	90	87	87	84	82	81	79	78	75																			
2	98	91	85	79	94	88	82	77	82	78	74	77	74	70	73	70	67	64																			
3	90	81	74	68	87	78	72	66	74	68	64	70	65	61	66	62	59	56																			
4	84	73	65	59	80	71	63	58	67	61	56	63	58	54	60	55	52	49																			
5	77	66	58	52	75	64	56	51	61	54	49	57	52	48	54	50	46	44																			
6	72	60	52	46	69	58	51	45	55	49	44	53	47	43	50	45	41	39																			
7	67	55	47	41	65	53	46	41	51	44	40	48	43	39	46	41	37	35																			
8	63	50	43	37	61	49	42	37	47	41	36	45	39	35	43	38	34	32																			
9	59	47	39	34	57	46	38	34	44	37	33	42	36	32	40	35	31	30																			
10	56	43	36	31	54	42	36	31	41	34	30	39	33	30	37	32	29	27																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20562	20562	20562
5°	20421	18725	17495
10°	20551	15773	14097
15°	20848	13490	11628
20°	21324	11406	9453
25°	21943	9441	8328
30°	22571	8133	7781
35°	22896	7412	7460
40°	22348	6696	7127
45°	20397	6051	6651
50°	17051	5346	6300
55°	12814	4682	5669
60°	8857	4016	5502
65°	5853	3458	5483
70°	3900	3245	5895
75°	2610	3347	6532
80°	1690	3707	7149
85°	870	4637	8525



TEST NUMBER: P827119

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1013.4	5.2
10°-20°	2384.0	12.2
20°-30°	2988.3	15.3
30°-40°	3170.9	16.2
40°-50°	2867.0	14.7
50°-60°	2078.8	10.6
60°-70°	1304.5	6.7
70°-80°	863.3	4.4
80°-90°	501.8	2.6
90°-100°	412.2	2.1
100°-110°	760.9	3.9
110°-120°	613.5	3.1
120°-130°	295.0	1.5
130°-140°	145.4	0.7
140°-150°	83.6	0.4
150°-160°	47.0	0.2
160°-170°	21.5	0.1
170°-180°	6.6	0.0
0°-30°	6385.7	32.7
0°-40°	9556.6	48.9
0°-60°	14502.5	74.2
0°-90°	17172.2	87.8
90°-120°	1786.6	9.1
90°-150°	2310.7	11.8
90°-180°	2386.0	12.2
0°-180°	19557.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12039	12039	12039	12039	12039	
5°	12015	11706	11019	10508	10243	###
15°	12106	9868	7837	6970	6654	3433
25°	12187	7630	5248	4658	4510	5630
35°	11750	5072	3809	3689	3688	7304
45°	9289	3213	2760	2827	2875	7076
55°	4918	1991	1801	1954	2024	4443
65°	1759	1155	1043	1336	1485	1830
75°	543	622	700	1087	1153	605
85°	95	258	512	713	654	114
90°	4	133	331	463	472	9
95°	43	158	390	522	562	124
105°	750	784	816	693	666	712
115°	526	554	646	672	675	530
125°	264	280	334	350	347	247
135°	160	165	185	203	204	126
145°	122	125	130	140	139	77
155°	100	105	107	110	107	45
165°	74	75	75	76	76	21
175°	67	67	68	68	68	6
180°	67	67	67	67	67	



TEST NUMBER: P827119

CATALOG NUMBER: OHBL-18SE-N-UNV-L840-CD-UPL18

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12038.8	12038.8	12038.8	12038.8	12038.8
2.5°	12013.6	11944.8	11730.6	11599.9	11489.9
5°	12014.7	11706.5	11019.0	10508.0	10243.3
7.5°	12031.9	11346.7	10108.1	9362.2	9071.2
10°	12058.2	10901.0	9257.9	8462.8	8191.2
12.5°	12077.7	10399.1	8509.7	7692.8	7394.9
15°	12106.4	9867.5	7837.2	6969.8	6653.6
17.5°	12132.7	9366.8	7172.6	6266.3	5914.5
20°	12159.1	8827.1	6508.1	5574.2	5284.4
22.5°	12184.3	8257.7	5859.5	5036.9	4838.7
25°	12186.6	7629.8	5247.7	4657.6	4509.8
27.5°	12156.8	6979.0	4751.6	4340.2	4248.6
30°	12105.2	6347.7	4366.6	4111.1	4045.8
32.5°	11976.9	5703.7	4068.7	3889.9	3852.1
35°	11750.0	5072.4	3808.6	3689.4	3688.3
37.5°	11392.5	4512.1	3526.7	3506.1	3531.3
40°	10864.3	4021.7	3259.8	3314.8	3314.8
42.5°	10159.7	3595.5	3018.0	3074.1	3059.2
45°	9288.9	3212.8	2760.2	2826.7	2874.8
47.5°	8279.4	2875.9	2496.7	2625.0	2691.4
50°	7181.8	2555.1	2256.1	2419.9	2495.5
52.5°	6031.4	2258.3	2021.2	2209.1	2269.8
55°	4917.7	1991.4	1801.2	1953.6	2023.5
57.5°	3909.4	1737.0	1585.8	1730.1	1874.5
60°	3042.1	1518.2	1383.0	1589.2	1733.6
62.5°	2323.7	1323.4	1192.8	1457.4	1601.8
65°	1758.8	1155.0	1042.7	1336.0	1484.9
67.5°	1325.7	1009.4	925.8	1247.8	1393.3
70°	995.7	868.5	831.8	1192.8	1323.4
72.5°	735.6	739.0	757.4	1144.6	1244.3
75°	543.1	622.2	700.1	1087.4	1152.7
77.5°	388.4	515.6	648.5	1018.6	1041.5
80°	269.3	420.5	594.7	928.1	908.6
82.5°	168.4	336.9	546.5	828.4	774.6
85°	95.1	257.8	512.2	712.7	654.2
87.5°	42.4	192.5	448.0	555.7	519.0
90°	4.0	132.7	330.8	463.2	471.6
92.5°	15.3	122.4	328.8	458.7	478.2
95°	42.6	157.6	390.2	522.2	562.2
97.5°	200.7	279.5	483.2	612.0	641.7
100°	408.9	481.6	579.7	674.6	692.1
102.5°	637.0	683.0	661.4	686.1	689.3
105°	750.2	784.4	816.2	693.1	665.9



TEST NUMBER: P827119

CATALOG NUMBER: OHBL-18SE-N-UNV-L840-CD-UPL18

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	613.5	645.0	737.2	759.0	739.8
115°	525.6	554.5	646.3	672.4	674.8
117.5°	450.7	470.9	554.3	580.9	583.1
120°	378.7	399.5	472.2	493.3	491.3
122.5°	318.7	336.9	399.2	415.7	412.5
125°	263.7	280.3	334.3	350.5	347.4
127.5°	224.6	235.9	282.7	297.7	294.6
130°	196.6	205.9	239.4	256.4	257.4
132.5°	176.5	181.7	208.4	225.4	227.4
135°	159.5	164.7	184.6	202.7	203.7
137.5°	146.5	152.9	166.1	183.0	184.0
140°	135.5	140.7	150.6	166.4	167.4
142.5°	127.6	131.7	139.3	151.8	152.8
145°	121.7	124.9	130.2	140.4	139.2
147.5°	114.7	119.0	122.2	129.9	128.8
150°	108.7	114.2	116.2	120.6	120.5
152.5°	104.7	109.2	111.2	114.5	113.3
155°	99.7	105.2	107.3	109.5	107.2
157.5°	83.0	84.0	85.0	86.0	86.0
160°	80.0	80.0	81.0	82.0	82.0
162.5°	77.0	77.0	78.0	79.0	79.0
165°	74.0	75.0	75.0	76.0	76.0
167.5°	72.0	72.0	73.0	73.0	74.0
170°	70.0	70.0	71.0	71.0	71.0
172.5°	68.0	69.0	69.0	69.0	69.0
175°	67.0	67.0	68.0	68.0	68.0
177.5°	66.0	67.0	67.0	67.0	67.0
180°	67.0	67.0	67.0	67.0	67.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	757.2	795.0	864.2	761.7	682.7
110°	695.3	735.4	822.3	804.7	743.7



(END OF REPORT)