

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: P827118

Luminaire Tested: **OHBL-18SE-N-UNV-L840-CD-UPL12**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P827118
REPORT IS A COMBINATION OF REPORTS P826068 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-18SE-N-UNV-L840-CD-UPL12
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NARROW LENSAND 1200 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

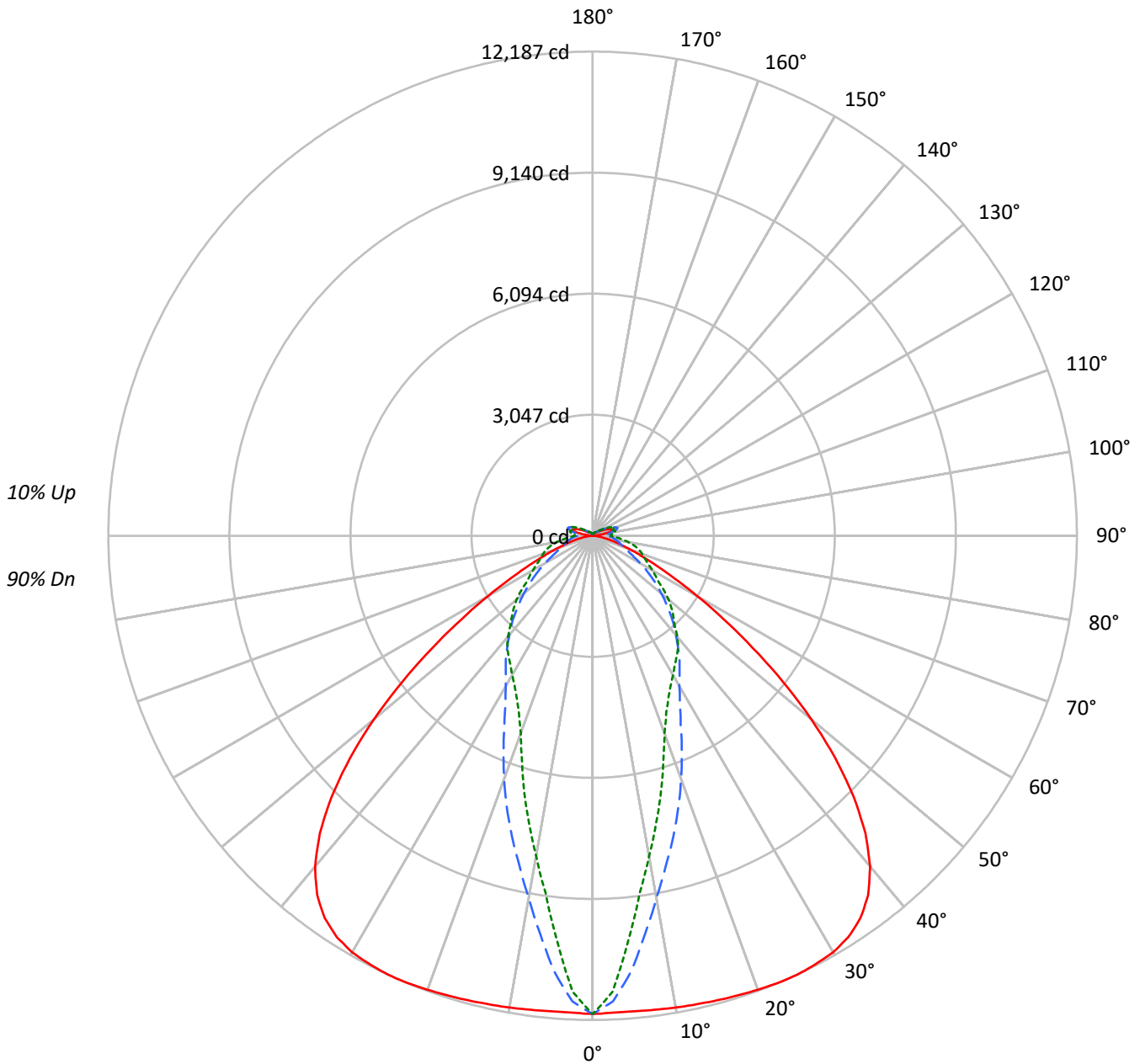
Lumens per Lamp: N/A
Luminaire Lumens: 19013.3 lumens
Efficiency: N/A
Efficacy: 167.7 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Direct

Input Watts (W): 113.4
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									
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	99	99	99	93	93	93	90																			
1	107	103	99	95	104	100	96	93	94	91	88	88	86	84	83	81	80	77																			
2	99	91	85	80	95	89	83	78	83	79	75	79	75	72	75	72	69	66																			
3	91	81	74	68	88	79	72	67	75	69	65	71	66	62	67	63	60	58																			
4	84	73	65	59	81	71	64	58	68	61	56	64	59	55	61	57	53	51																			
5	78	66	58	52	75	65	57	51	61	55	50	59	53	49	56	51	47	45																			
6	73	60	52	46	70	59	51	46	56	50	45	54	48	44	51	46	42	40																			
7	68	55	47	42	65	54	47	41	52	45	40	49	44	39	47	42	38	36																			
8	63	51	43	38	61	50	42	37	48	41	37	46	40	36	44	39	35	33																			
9	59	47	40	34	58	46	39	34	44	38	33	43	37	33	41	36	32	30																			
10	56	44	36	32	54	43	36	31	41	35	31	40	34	30	38	33	30	28																			

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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1013.4	5.3
10°-20°	2384.0	12.5
20°-30°	2988.3	15.7
30°-40°	3170.9	16.7
40°-50°	2867.0	15.1
50°-60°	2078.8	10.9
60°-70°	1304.5	6.9
70°-80°	863.3	4.5
80°-90°	500.5	2.6
90°-100°	359.9	1.9
100°-110°	580.2	3.1
110°-120°	458.1	2.4
120°-130°	220.1	1.2
130°-140°	108.1	0.6
140°-150°	62.1	0.3
150°-160°	34.4	0.2
160°-170°	15.0	0.1
170°-180°	4.6	0.0
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0°-30°	6385.7	33.6
0°-40°	9556.6	50.3
0°-60°	14502.5	76.3
0°-90°	17170.8	90.3
90°-120°	1398.3	7.4
90°-150°	1788.6	9.4
90°-180°	1843.0	9.7
0°-180°	19013.3	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°	3	126	321	449	457	8
95°	30	134	347	471	505	86
105°	526	561	626	561	543	498
115°	373	396	489	518	516	372
125°	190	201	252	268	267	176
135°	114	119	138	155	155	90
145°	89	92	95	105	105	56
155°	74	78	80	82	80	32
165°	52	52	53	53	53	15
175°	47	47	47	47	47	5
180°	46	46	46	46	46	



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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°	3.0	125.7	320.8	449.2	456.6
92.5°	11.3	112.4	311.8	436.7	453.2
95°	29.6	133.6	347.2	471.2	505.2
97.5°	140.7	213.5	411.2	526.0	549.7
100°	282.9	356.6	472.7	561.6	578.1
102.5°	447.0	488.0	523.4	562.1	566.3
105°	526.2	561.4	626.2	561.1	542.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	429.5	460.0	561.2	583.0	571.8
115°	372.6	395.5	489.3	518.4	515.8
117.5°	315.7	336.9	421.3	446.9	446.1
120°	266.7	286.5	357.2	377.3	377.3
122.5°	226.7	240.9	301.2	317.7	317.5
125°	189.7	201.3	252.3	267.5	267.4
127.5°	159.6	167.9	212.7	227.7	226.6
130°	140.6	146.9	179.4	196.4	196.4
132.5°	125.5	130.7	155.4	172.4	173.4
135°	113.5	118.7	137.6	154.7	154.7
137.5°	105.5	110.9	123.1	139.0	140.0
140°	97.5	102.7	111.6	126.4	126.4
142.5°	92.6	95.7	102.3	114.8	115.8
145°	88.7	91.9	95.2	105.4	105.2
147.5°	83.7	88.0	91.2	96.9	96.8
150°	80.7	85.2	86.2	90.6	89.5
152.5°	76.7	81.2	82.2	85.5	84.3
155°	73.7	78.2	80.3	82.5	80.2
157.5°	57.0	59.0	59.0	60.0	60.0
160°	55.0	56.0	57.0	57.0	57.0
162.5°	53.0	54.0	54.0	55.0	55.0
165°	52.0	52.0	53.0	53.0	53.0
167.5°	50.0	50.0	51.0	51.0	51.0
170°	49.0	49.0	49.0	50.0	50.0
172.5°	48.0	48.0	48.0	48.0	48.0
175°	47.0	47.0	47.0	47.0	47.0
177.5°	46.0	47.0	47.0	47.0	47.0
180°	46.0	46.0	46.0	46.0	46.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	529.2	569.0	655.2	598.7	542.7
110°	486.3	525.4	620.3	621.7	578.7



(END OF REPORT)