

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: P827120

Luminaire Tested: **OHBL-18SE-N-UNV-L840-CD-UPL24**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827120
REPORT IS A COMBINATION OF REPORTS P826236 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-N-UNV-L840-CD-UPL24
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NARROW LENS AND 2400 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

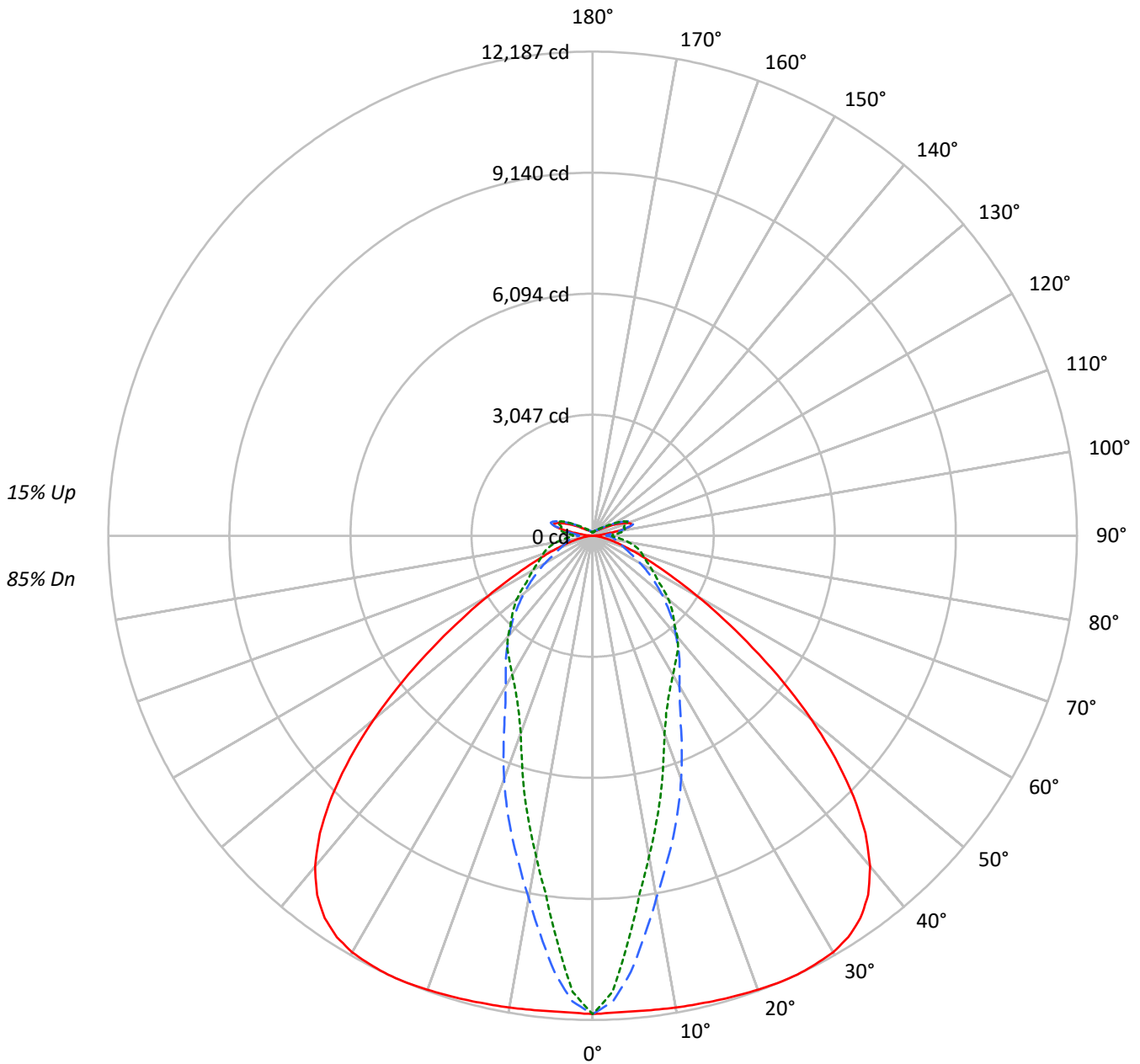
Lumens per Lamp: N/A
Luminaire Lumens: 20188.3 lumens
Efficiency: N/A
Efficacy: 164.9 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 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

TEST NUMBER: P827120

CATALOG NUMBER: OHBL-18SE-N-UNV-L840-CD-UPL24

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	115	115	115	115	111	111	111	111	103	103	103	95	95	95	88	88	88	85			
1	106	102	98	94	102	98	94	91	91	88	86	85	83	80	79	77	76	73			
2	98	90	84	79	94	87	81	77	81	77	73	76	72	69	71	68	65	62			
3	90	80	73	67	86	78	71	66	73	67	63	68	64	60	64	60	57	54			
4	83	72	64	58	80	70	63	57	66	60	55	62	57	52	58	54	50	48			
5	77	65	57	51	74	63	56	50	60	53	48	56	51	47	53	48	45	42			
6	71	59	51	45	69	58	50	45	54	48	43	51	46	42	49	44	40	38			
7	67	54	46	41	64	53	45	40	50	44	39	47	42	38	45	40	36	34			
8	62	50	42	37	60	49	41	36	46	40	35	44	38	34	42	37	33	31			
9	59	46	39	34	56	45	38	33	43	37	32	41	35	31	39	34	30	29			
10	55	43	36	31	53	42	35	30	40	34	30	38	33	29	36	32	28	26			

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: P827120

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1013.4	5.0
10°-20°	2384.0	11.8
20°-30°	2988.3	14.8
30°-40°	3170.9	15.7
40°-50°	2867.0	14.2
50°-60°	2078.8	10.3
60°-70°	1304.5	6.5
70°-80°	863.3	4.3
80°-90°	503.5	2.5
90°-100°	472.8	2.3
100°-110°	971.2	4.8
110°-120°	793.1	3.9
120°-130°	380.9	1.9
130°-140°	188.6	0.9
140°-150°	108.5	0.5
150°-160°	61.4	0.3
160°-170°	29.0	0.1
170°-180°	8.8	0.0
0°-30°	6385.7	31.6
0°-40°	9556.6	47.3
0°-60°	14502.5	71.8
0°-90°	17173.8	85.1
90°-120°	2237.1	11.1
90°-150°	2915.2	14.4
90°-180°	3014.0	14.9
0°-180°	20188.3	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°	5	142	344	480	491	10
95°	58	187	433	583	629	169
105°	1012	1042	1034	853	811	961
115°	705	734	827	857	855	710
125°	352	374	428	444	440	329
135°	212	218	240	258	260	167
145°	159	164	169	179	179	101
155°	130	135	138	140	138	59
165°	100	101	102	102	102	29
175°	90	91	91	92	92	9
180°	90	90	90	90	90	



TEST NUMBER: P827120

CATALOG NUMBER: OHBL-18SE-N-UNV-L840-CD-UPL24

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°	5.0	141.7	343.8	480.2	490.6
92.5°	19.3	134.4	345.8	484.7	509.2
95°	57.6	186.6	433.2	583.2	629.2
97.5°	274.7	357.5	558.2	709.0	755.7
100°	558.9	645.6	698.7	803.6	824.1
102.5°	861.0	903.0	825.4	830.1	831.3
105°	1012.2	1042.4	1034.2	853.1	810.9



TEST NUMBER: P827120

CATALOG NUMBER: OHBL-18SE-N-UNV-L840-CD-UPL24

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	819.5	859.0	947.2	962.0	935.8
115°	704.6	734.5	827.3	857.4	854.8
117.5°	605.7	623.9	709.3	736.9	739.1
120°	503.7	528.5	606.2	625.3	619.3
122.5°	424.7	445.9	509.2	526.7	519.5
125°	351.7	374.3	428.3	444.5	440.4
127.5°	298.6	313.9	361.7	378.7	376.6
130°	261.6	271.9	309.4	326.4	327.4
132.5°	232.5	241.7	269.4	289.4	288.4
135°	211.5	217.7	239.6	257.7	259.7
137.5°	194.5	200.9	216.1	234.0	234.0
140°	179.5	185.7	197.6	213.4	214.4
142.5°	167.6	172.7	181.3	194.8	194.8
145°	158.7	163.9	169.2	179.4	179.2
147.5°	149.7	156.0	159.2	166.9	165.8
150°	142.7	148.2	151.2	155.6	155.5
152.5°	135.7	141.2	144.2	147.5	146.3
155°	129.7	135.2	138.3	140.5	138.2
157.5°	111.0	113.0	115.0	116.0	116.0
160°	107.0	108.0	110.0	111.0	111.0
162.5°	103.0	104.0	105.0	106.0	106.0
165°	100.0	101.0	102.0	102.0	102.0
167.5°	97.0	97.0	98.0	99.0	99.0
170°	94.0	95.0	95.0	96.0	96.0
172.5°	92.0	93.0	93.0	93.0	94.0
175°	90.0	91.0	91.0	92.0	92.0
177.5°	90.0	90.0	90.0	90.0	90.0
180°	90.0	90.0	90.0	90.0	90.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	1016.2	1058.0	1107.2	954.7	840.7
110°	939.3	980.4	1052.3	1017.7	927.7



(END OF REPORT)