

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: P827060

Luminaire Tested: **OHBL-12SE-MFL-UNV-L840-CD-UPL18**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827060
REPORT IS A COMBINATION OF REPORTS P826151 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-12SE-MFL-UNV-L840-CD-UPL18
Description: 12000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM FROSTED LENS AND 1800 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

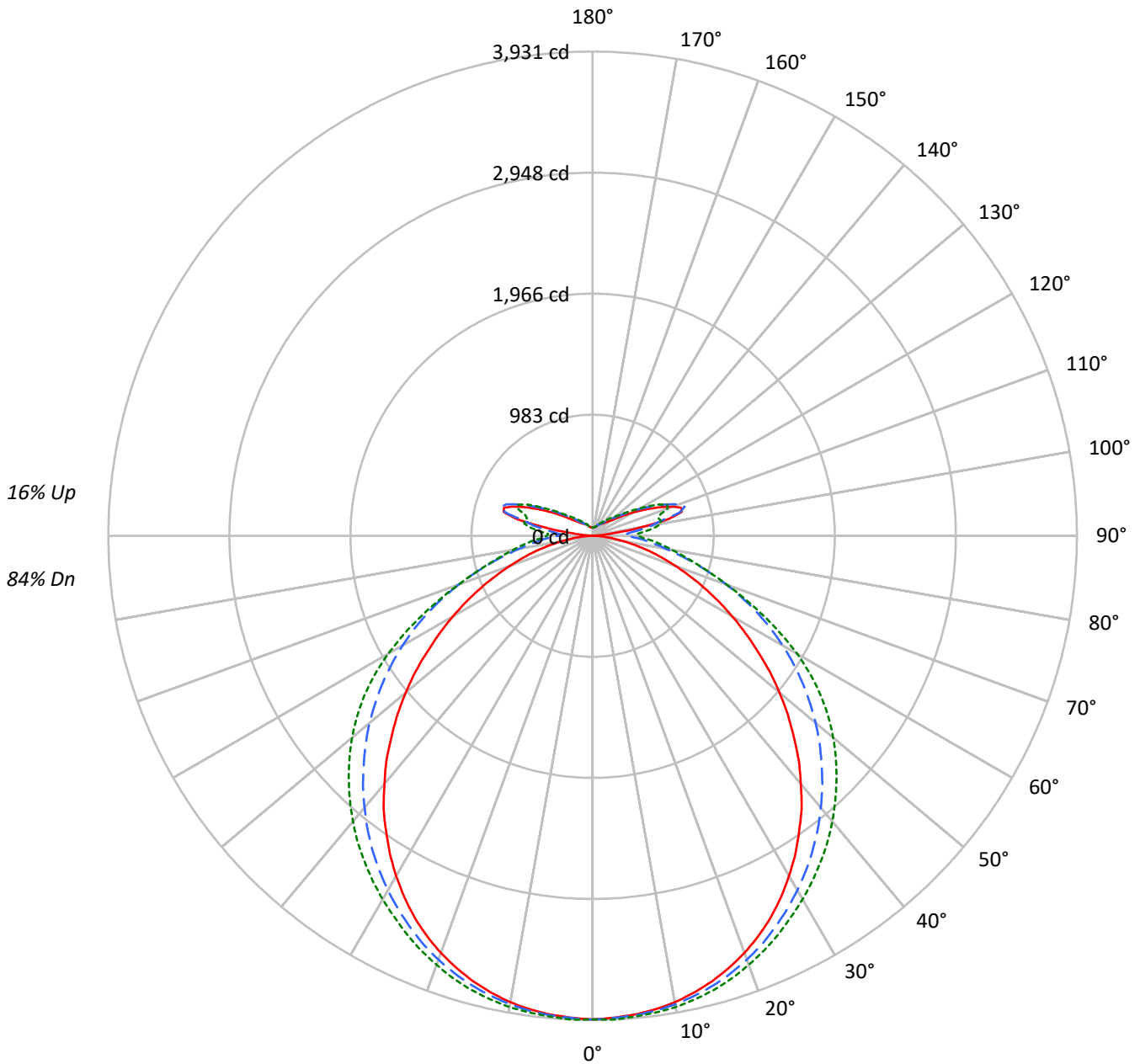
Lumens per Lamp: N/A
Luminaire Lumens: 13543.9 lumens
Efficiency: N/A
Efficacy: 164.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 82.3
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: P827060

CATALOG NUMBER: OHBL-12SE-MFL-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	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	84																			
1	105	100	95	91	100	96	92	88	89	86	83	82	80	77	76	74	72	69																			
2	95	87	80	74	91	83	77	72	77	72	68	72	68	64	67	63	60	57																			
3	87	76	68	62	83	73	66	60	68	62	57	63	58	54	59	55	51	48																			
4	79	67	59	52	76	65	57	51	60	54	48	56	51	46	52	48	44	41																			
5	73	60	51	45	70	58	50	44	54	47	42	50	45	40	47	42	38	36																			
6	67	54	45	39	64	52	44	38	49	42	36	46	40	35	43	37	33	31																			
7	62	49	40	34	59	47	39	34	44	37	32	42	35	31	39	34	30	27																			
8	58	45	36	30	55	43	35	30	41	34	29	38	32	28	36	30	27	24																			
9	54	41	33	27	52	40	32	27	37	31	26	35	29	25	33	28	24	22																			
10	51	38	30	25	48	36	29	24	34	28	23	32	27	23	31	25	22	20																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12777	12777	12777
5°	12535	12581	12748
10°	12291	12396	12735
15°	12000	12191	12702
20°	11667	11957	12629
25°	11275	11683	12556
30°	10793	11391	12486
35°	10246	11085	12439
40°	9622	10739	12400
45°	8919	10366	12338
50°	8167	9984	12258
55°	7290	9529	12068
60°	6400	9002	11592
65°	5453	8350	10735
70°	4453	7543	9819
75°	3453	6611	9338
80°	2311	5808	9781
85°	1151	5501	12261



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.1	2.7
10°-20°	1067.6	7.9
20°-30°	1614.6	11.9
30°-40°	1938.3	14.3
40°-50°	2002.0	14.8
50°-60°	1801.2	13.3
60°-70°	1356.8	10.0
70°-80°	819.3	6.0
80°-90°	405.2	3.0
90°-100°	339.9	2.5
100°-110°	690.9	5.1
110°-120°	567.4	4.2
120°-130°	277.3	2.0
130°-140°	139.4	1.0
140°-150°	79.3	0.6
150°-160°	44.6	0.3
160°-170°	21.5	0.2
170°-180°	6.6	0.0
0°-30°	3054.3	22.6
0°-40°	4992.7	36.9
0°-60°	8795.8	64.9
0°-90°	11377.0	84.0
90°-120°	1598.2	11.8
90°-150°	2094.2	15.5
90°-180°	2167.0	16.0
0°-180°	13543.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3927	3927	3927	3927	3927	
5°	3902	3913	3908	3924	3919	371
15°	3745	3763	3780	3812	3816	1056
25°	3420	3457	3506	3561	3570	1573
35°	2924	2992	3115	3209	3229	1828
45°	2308	2424	2627	2770	2800	1782
55°	1635	1804	2078	2235	2262	1466
65°	998	1202	1471	1544	1526	991
75°	470	675	852	874	865	501
85°	98	259	427	485	494	113
90°	4	126	278	353	370	9
95°	43	150	312	400	432	124
105°	748	773	732	579	551	710
115°	521	541	583	600	602	525
125°	258	273	308	325	326	242
135°	155	160	176	193	197	122
145°	118	119	123	131	134	74
155°	96	99	99	99	100	43
165°	74	75	75	76	76	21
175°	67	67	68	68	68	6
180°	67	67	67	67	67	



TEST NUMBER: P827060

CATALOG NUMBER: OHBL-12SE-MFL-UNV-L840-CD-UPL18

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3927.4	3927.4	3927.4	3927.4	3927.4
2.5°	3915.9	3925.5	3919.7	3932.2	3931.2
5°	3902.4	3913.0	3908.2	3923.5	3918.7
7.5°	3879.3	3890.9	3889.9	3907.2	3905.3
10°	3845.7	3858.2	3862.0	3885.1	3885.1
12.5°	3799.5	3815.9	3825.5	3853.4	3854.3
15°	3744.8	3763.0	3780.3	3812.0	3815.9
17.5°	3678.4	3701.5	3725.5	3762.1	3766.9
20°	3603.5	3629.4	3662.1	3700.5	3706.3
22.5°	3517.0	3547.7	3590.0	3635.2	3641.9
25°	3419.9	3457.4	3506.4	3561.2	3569.8
27.5°	3309.3	3352.6	3418.9	3480.4	3488.1
30°	3189.2	3240.1	3322.8	3395.9	3408.3
32.5°	3062.3	3121.0	3222.8	3304.5	3321.8
35°	2923.9	2992.2	3115.2	3209.4	3228.6
37.5°	2787.4	2862.4	3001.8	3109.4	3132.5
40°	2627.9	2721.1	2880.7	2999.8	3027.7
42.5°	2477.9	2578.8	2759.6	2889.3	2916.2
45°	2307.8	2424.1	2626.9	2770.1	2799.9
47.5°	2148.2	2274.2	2499.1	2647.1	2677.9
50°	1980.0	2118.4	2362.6	2517.3	2549.1
52.5°	1811.8	1960.8	2221.3	2381.8	2411.6
55°	1635.0	1804.1	2078.1	2234.7	2261.7
57.5°	1470.6	1649.4	1931.0	2080.0	2096.3
60°	1308.2	1493.7	1781.1	1911.8	1917.6
62.5°	1149.6	1344.7	1627.3	1731.1	1723.4
65°	997.7	1201.5	1470.6	1543.7	1526.4
67.5°	851.6	1062.1	1310.1	1357.2	1334.1
70°	713.2	926.6	1154.4	1178.4	1157.3
72.5°	591.1	797.8	996.7	1016.9	1001.6
75°	470.0	674.7	851.6	873.7	865.1
77.5°	356.6	555.6	718.0	746.8	748.8
80°	256.6	446.9	601.7	646.9	652.6
82.5°	169.2	347.0	504.6	562.3	570.9
85°	98.0	258.6	426.8	485.4	494.0
87.5°	42.3	186.5	343.1	396.0	406.6
90°	4.0	125.9	278.1	352.6	370.1
92.5°	15.9	116.6	264.5	343.2	361.8
95°	42.8	150.2	311.6	399.6	432.3
97.5°	200.8	270.7	396.6	484.8	509.5
100°	407.8	472.0	491.4	548.8	562.5
102.5°	634.8	672.2	574.1	565.7	566.4
105°	747.7	773.4	731.7	579.4	551.2



TEST NUMBER: P827060

CATALOG NUMBER: OHBL-12SE-MFL-UNV-L840-CD-UPL18

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	609.7	632.0	667.0	676.0	654.9
115°	520.7	541.1	583.4	599.5	602.3
117.5°	445.7	459.2	499.7	518.8	522.7
120°	373.7	388.3	426.9	443.2	445.0
122.5°	313.7	327.5	364.2	379.4	380.3
125°	257.7	272.6	308.4	324.7	325.6
127.5°	218.7	229.7	263.6	279.9	280.8
130°	190.7	198.7	225.8	243.2	247.1
132.5°	171.7	176.7	198.0	214.4	220.3
135°	154.7	159.7	176.2	192.6	197.4
137.5°	141.7	146.7	158.3	173.8	178.6
140°	131.7	135.7	143.5	157.0	161.8
142.5°	123.7	126.7	131.6	143.1	147.0
145°	117.6	118.7	122.6	131.3	134.2
147.5°	110.6	112.6	114.6	120.5	123.3
150°	104.6	107.6	108.6	110.6	114.5
152.5°	100.6	102.6	103.6	103.7	105.6
155°	95.6	98.6	98.6	98.7	99.6
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°	754.7	782.6	783.2	659.0	576.8
110°	691.7	723.8	745.7	712.6	648.4



(END OF REPORT)