

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: P827059

Luminaire Tested: **OHBL-12SE-MFL-UNV-L840-CD-UPL12**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827059
REPORT IS A COMBINATION OF REPORTS P826055 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-12SE-MFL-UNV-L840-CD-UPL12
Description: 12000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM FROSTED LENS AND 1200 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

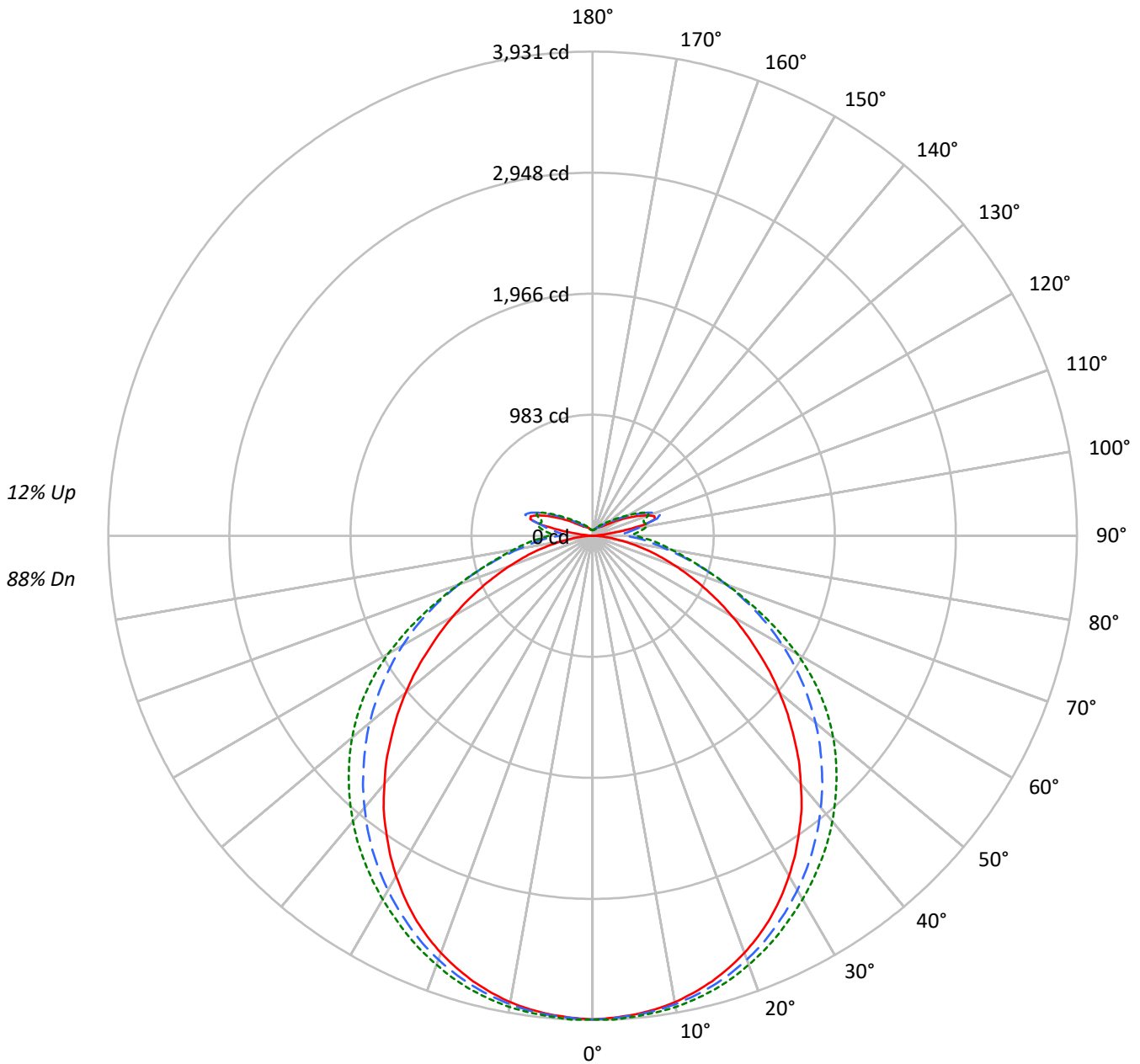
Lumens per Lamp: N/A
Luminaire Lumens: 12999.3 lumens
Efficiency: N/A
Efficacy: 165.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 78.4
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: P827059

CATALOG NUMBER: OHBL-12SE-MFL-UNV-L840-CD-UPL12

Luminous Intensity Polar Plot





TEST NUMBER: P827059

CATALOG NUMBER: OHBL-12SE-MFL-UNV-L840-CD-UPL12

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	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	105	100	96	92	101	97	93	89	90	87	84	84	82	79	79	77	75	72																											
2	96	87	80	75	92	84	78	73	79	74	69	74	70	66	69	66	63	60																											
3	87	77	68	62	84	74	67	61	69	63	58	65	60	55	61	57	53	50																											
4	80	68	59	52	76	66	58	51	62	55	49	58	52	47	54	49	45	43																											
5	73	61	52	45	70	59	50	44	55	48	43	52	46	41	49	44	39	37																											
6	68	54	46	39	65	53	45	39	50	43	37	47	41	36	44	39	35	32																											
7	63	49	41	35	60	48	40	34	45	38	33	43	36	32	40	35	31	29																											
8	58	45	36	31	56	44	36	30	41	34	29	39	33	28	37	32	28	25																											
9	54	41	33	28	52	40	32	27	38	31	26	36	30	26	34	29	25	23																											
10	51	38	30	25	49	37	30	25	35	28	24	33	27	23	32	26	23	21																											

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



TEST NUMBER: P827059

CATALOG NUMBER: OHBL-12SE-MFL-UNV-L840-CD-UPL12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.1	2.9
10°-20°	1067.6	8.2
20°-30°	1614.6	12.4
30°-40°	1938.3	14.9
40°-50°	2002.0	15.4
50°-60°	1801.2	13.9
60°-70°	1356.8	10.4
70°-80°	819.3	6.3
80°-90°	403.8	3.1
90°-100°	287.6	2.2
100°-110°	510.2	3.9
110°-120°	412.1	3.2
120°-130°	202.4	1.6
130°-140°	102.1	0.8
140°-150°	57.8	0.4
150°-160°	32.0	0.2
160°-170°	15.0	0.1
170°-180°	4.6	0.0
0°-30°	3054.3	23.5
0°-40°	4992.7	38.4
0°-60°	8795.8	67.7
0°-90°	11375.7	87.5
90°-120°	1209.9	9.3
90°-150°	1572.1	12.1
90°-180°	1624.0	12.5
0°-180°	12999.3	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°	3	119	268	339	355	8
95°	30	126	269	349	375	86
105°	524	550	542	447	428	496
115°	368	382	426	446	443	368
125°	184	194	226	242	246	171
135°	109	114	129	145	148	86
145°	85	86	88	96	100	53
155°	70	72	72	72	73	31
165°	52	52	53	53	53	15
175°	47	47	47	47	47	5
180°	46	46	46	46	46	



TEST NUMBER: P827059

CATALOG NUMBER: OHBL-12SE-MFL-UNV-L840-CD-UPL12

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°	3.0	118.9	268.1	338.6	355.1
92.5°	11.9	106.6	247.5	321.2	336.8
95°	29.8	126.2	268.6	348.6	375.3
97.5°	140.8	204.7	324.6	398.8	417.5
100°	281.8	347.0	384.4	435.8	448.5
102.5°	444.8	477.2	436.1	441.7	443.4
105°	523.7	550.4	541.7	447.4	428.2



TEST NUMBER: P827059

CATALOG NUMBER: OHBL-12SE-MFL-UNV-L840-CD-UPL12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	425.7	447.0	491.0	500.0	486.9
115°	367.7	382.1	426.4	445.5	443.3
117.5°	310.7	325.2	366.7	384.8	385.7
120°	261.7	275.3	311.9	327.2	331.0
122.5°	221.7	231.5	266.2	281.4	285.3
125°	183.7	193.6	226.4	241.7	245.6
127.5°	153.7	161.7	193.6	209.9	212.8
130°	134.7	139.7	165.8	183.2	186.1
132.5°	120.7	125.7	145.0	161.4	166.3
135°	108.7	113.7	129.2	144.6	148.4
137.5°	100.7	104.7	115.3	129.8	134.6
140°	93.7	97.7	104.5	117.0	120.8
142.5°	88.7	90.7	94.6	106.1	110.0
145°	84.6	85.7	87.6	96.3	100.2
147.5°	79.6	81.6	83.6	87.5	91.3
150°	76.6	78.6	78.6	80.6	83.5
152.5°	72.6	74.6	74.6	74.7	76.6
155°	69.6	71.6	71.6	71.7	72.6
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°	526.7	556.6	574.2	496.0	436.8
110°	482.7	513.8	543.7	529.6	483.4



(END OF REPORT)