

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: P827065

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827065
REPORT IS A COMBINATION OF REPORTS P826058 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-W-UNV-L840-CD-UPL12
Description: 12000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND WIDE LENS AND 1200 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

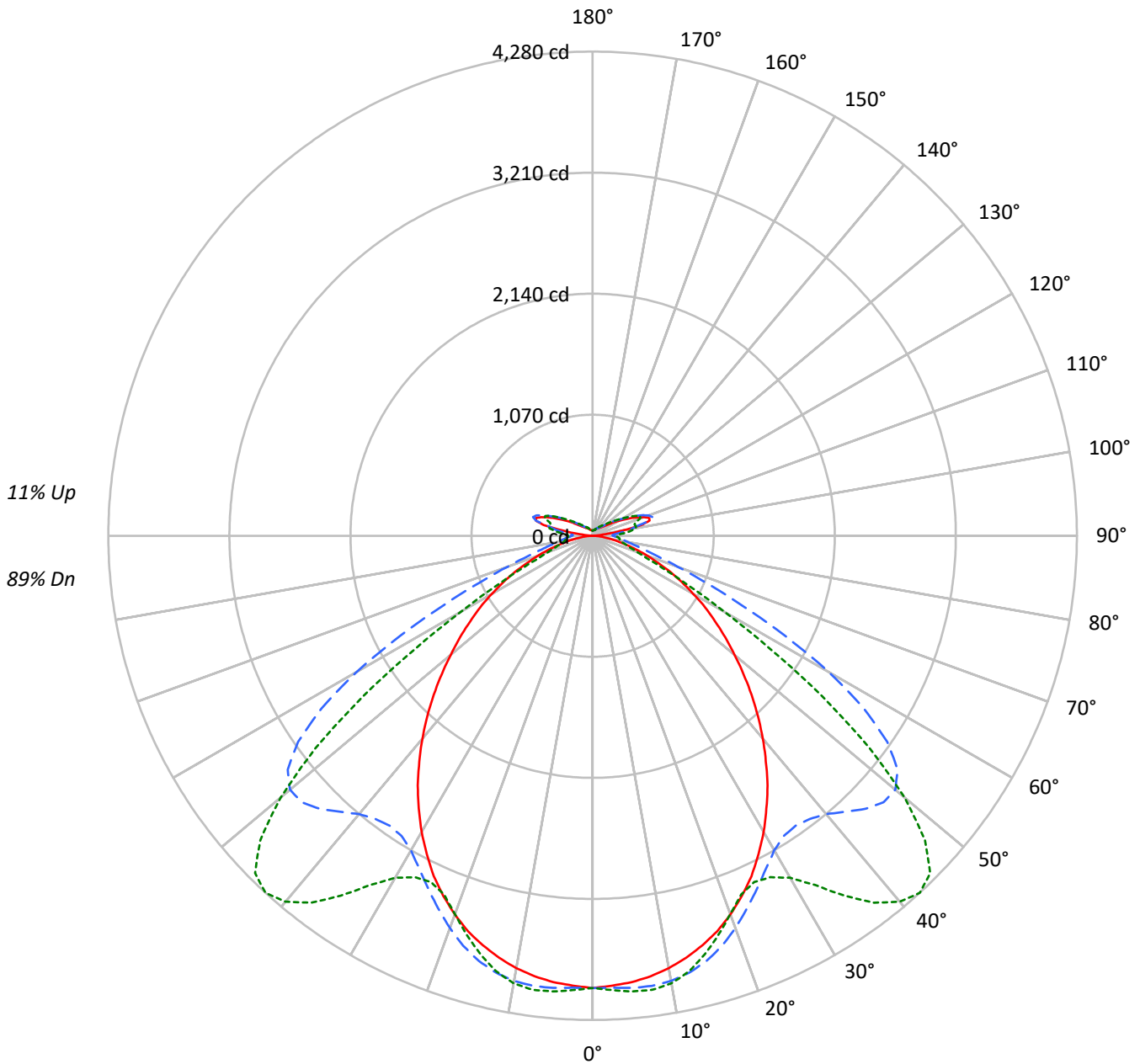
Lumens per Lamp: N/A
Luminaire Lumens: 13215.3 lumens
Efficiency: N/A
Efficacy: 168.6 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.17')
CIE Type: Semi-Direct

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

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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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89			89
1	107	102	98	94	103	99	95	92	92	89	87	87	84	82	81	79	78	75			75
2	97	89	83	77	94	86	81	76	81	76	72	76	72	69	72	69	66	63			63
3	89	79	71	64	85	76	69	63	72	66	61	67	62	58	63	59	56	53			53
4	81	69	61	54	78	67	60	54	64	57	52	60	54	50	56	52	48	45			45
5	74	62	53	47	72	60	52	46	57	50	44	54	48	43	51	46	41	39			39
6	69	56	47	41	66	54	46	40	51	44	39	48	42	37	46	40	36	34			34
7	63	50	42	36	61	49	41	35	46	39	34	44	38	33	42	36	32	30			30
8	59	46	37	31	57	44	37	31	42	35	30	40	34	29	38	33	28	26			26
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	30	26	24			24
10	51	38	30	25	49	37	30	25	36	29	24	34	28	24	32	27	23	21			21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13006	13006	13006
5°	12723	12916	13154
10°	12405	12826	13170
15°	12009	12544	12748
20°	11530	12045	12123
25°	10948	11458	11880
30°	10231	11006	12784
35°	9445	11135	14960
40°	8568	11971	17295
45°	7670	13469	18590
50°	6753	14754	17300
55°	5892	14575	13218
60°	5030	12167	8082
65°	4144	8262	4896
70°	3188	5225	3535
75°	2243	3629	3277
80°	1421	3039	3697
85°	760	3069	5845



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.0	2.9
10°-20°	1081.8	8.2
20°-30°	1583.0	12.0
30°-40°	2055.9	15.6
40°-50°	2510.5	19.0
50°-60°	2210.9	16.7
60°-70°	1152.1	8.7
70°-80°	494.1	3.7
80°-90°	240.4	1.8
90°-100°	230.4	1.7
100°-110°	483.2	3.7
110°-120°	396.5	3.0
120°-130°	192.7	1.5
130°-140°	96.4	0.7
140°-150°	55.0	0.4
150°-160°	30.8	0.2
160°-170°	15.0	0.1
170°-180°	4.6	0.0
0°-30°	3046.9	23.1
0°-40°	5102.7	38.6
0°-60°	9824.1	74.3
0°-90°	11710.7	88.6
90°-120°	1110.2	8.4
90°-150°	1454.2	11.0
90°-180°	1505.0	11.4
0°-180°	13215.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3998	3998	3998	3998	3998	
5°	3961	3991	4012	4048	4044	376
15°	3748	3853	3890	3861	3830	1055
25°	3321	3498	3439	3374	3378	1524
35°	2695	2980	3129	3649	3883	1680
45°	1985	2497	3413	4132	4219	1530
55°	1321	2187	3178	2787	2477	1186
65°	758	1515	1455	809	696	750
75°	305	709	468	320	304	333
85°	65	253	238	233	236	72
90°	4	109	181	210	219	7
95°	27	112	211	263	285	83
105°	520	541	517	406	383	493
115°	365	377	411	419	415	365
125°	182	192	216	223	225	169
135°	107	110	123	133	134	85
145°	82	82	84	90	93	52
155°	67	68	67	68	68	30
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°	3997.8	3997.8	3997.8	3997.8	3997.8
2.5°	3980.5	3997.8	3998.6	4022.8	4020.2
5°	3960.7	3990.9	4012.4	4047.8	4043.5
7.5°	3927.9	3975.3	4013.3	4052.1	4048.6
10°	3881.3	3946.0	3996.0	4027.9	4017.6
12.5°	3820.9	3906.3	3955.5	3962.4	3942.6
15°	3747.6	3852.9	3889.9	3860.6	3829.6
17.5°	3664.8	3788.2	3801.1	3737.3	3698.5
20°	3561.3	3701.9	3689.0	3601.0	3557.9
22.5°	3446.6	3607.0	3565.6	3473.4	3432.0
25°	3320.7	3498.4	3438.9	3374.2	3377.6
27.5°	3173.2	3375.0	3317.2	3346.6	3401.8
30°	3023.1	3245.6	3210.3	3381.1	3489.7
32.5°	2858.4	3112.8	3144.7	3482.0	3659.7
35°	2695.4	2980.0	3129.2	3649.3	3883.0
37.5°	2515.1	2845.4	3154.2	3842.5	4087.5
40°	2340.0	2714.3	3211.1	4015.9	4222.9
42.5°	2161.5	2597.0	3306.9	4118.5	4279.8
45°	1984.6	2497.0	3413.0	4132.3	4218.6
47.5°	1807.8	2412.5	3486.3	4022.8	3983.1
50°	1637.1	2337.4	3491.5	3759.7	3597.6
52.5°	1477.5	2268.4	3396.6	3340.5	3088.7
55°	1321.4	2187.3	3178.4	2786.8	2477.1
57.5°	1179.1	2075.2	2842.0	2191.7	1853.5
60°	1028.1	1923.4	2407.3	1603.4	1336.9
62.5°	889.3	1734.5	1920.0	1116.1	960.8
65°	758.2	1515.4	1455.1	809.0	696.1
67.5°	619.3	1288.6	1073.8	590.0	517.5
70°	510.6	1078.1	799.6	458.9	416.6
72.5°	399.3	878.0	597.7	372.6	349.3
75°	305.3	709.0	467.5	320.0	303.6
77.5°	225.1	560.6	376.1	282.9	267.4
80°	157.8	441.6	314.8	252.7	246.7
82.5°	106.1	341.6	268.2	240.6	241.5
85°	64.7	252.7	238.1	232.9	235.5
87.5°	31.1	179.4	204.4	212.2	214.8
90°	3.9	109.4	181.0	210.4	218.7
92.5°	9.0	92.9	176.0	214.4	223.7
95°	26.7	111.5	211.1	262.6	284.9
97.5°	136.7	191.0	278.1	330.6	343.1
100°	278.6	335.0	347.1	379.6	387.2
102.5°	441.6	466.6	405.7	394.7	391.4
105°	520.5	541.2	517.1	406.5	383.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	423.2	441.7	474.9	471.0	455.7
115°	365.2	377.3	411.0	419.2	415.0
117.5°	308.0	321.5	353.0	360.3	359.2
120°	259.0	271.9	299.0	305.3	306.2
122.5°	219.0	228.4	254.6	261.1	263.0
125°	182.0	191.6	216.3	223.0	224.8
127.5°	152.2	159.0	185.0	192.6	193.5
130°	133.2	137.2	157.7	167.3	169.1
132.5°	119.2	122.2	138.3	147.9	150.6
135°	107.2	110.2	122.8	133.3	134.2
137.5°	99.2	101.2	110.2	119.8	122.6
140°	91.2	94.2	99.6	109.3	110.1
142.5°	86.0	87.2	91.8	99.7	101.5
145°	81.9	82.2	84.0	90.2	92.9
147.5°	76.9	78.0	80.0	83.5	85.4
150°	73.9	74.9	74.2	76.9	78.6
152.5°	69.9	70.9	70.2	71.2	72.9
155°	66.9	67.9	67.2	68.2	68.2
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°	524.3	548.7	553.5	460.1	397.8
110°	480.3	506.3	524.8	497.6	448.4



(END OF REPORT)