

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: P827064

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827064
REPORT IS A COMBINATION OF REPORTS P826153 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-NL-UNV-L840-CD-UPL18
Description: 12000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NO LENS AND 1800 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

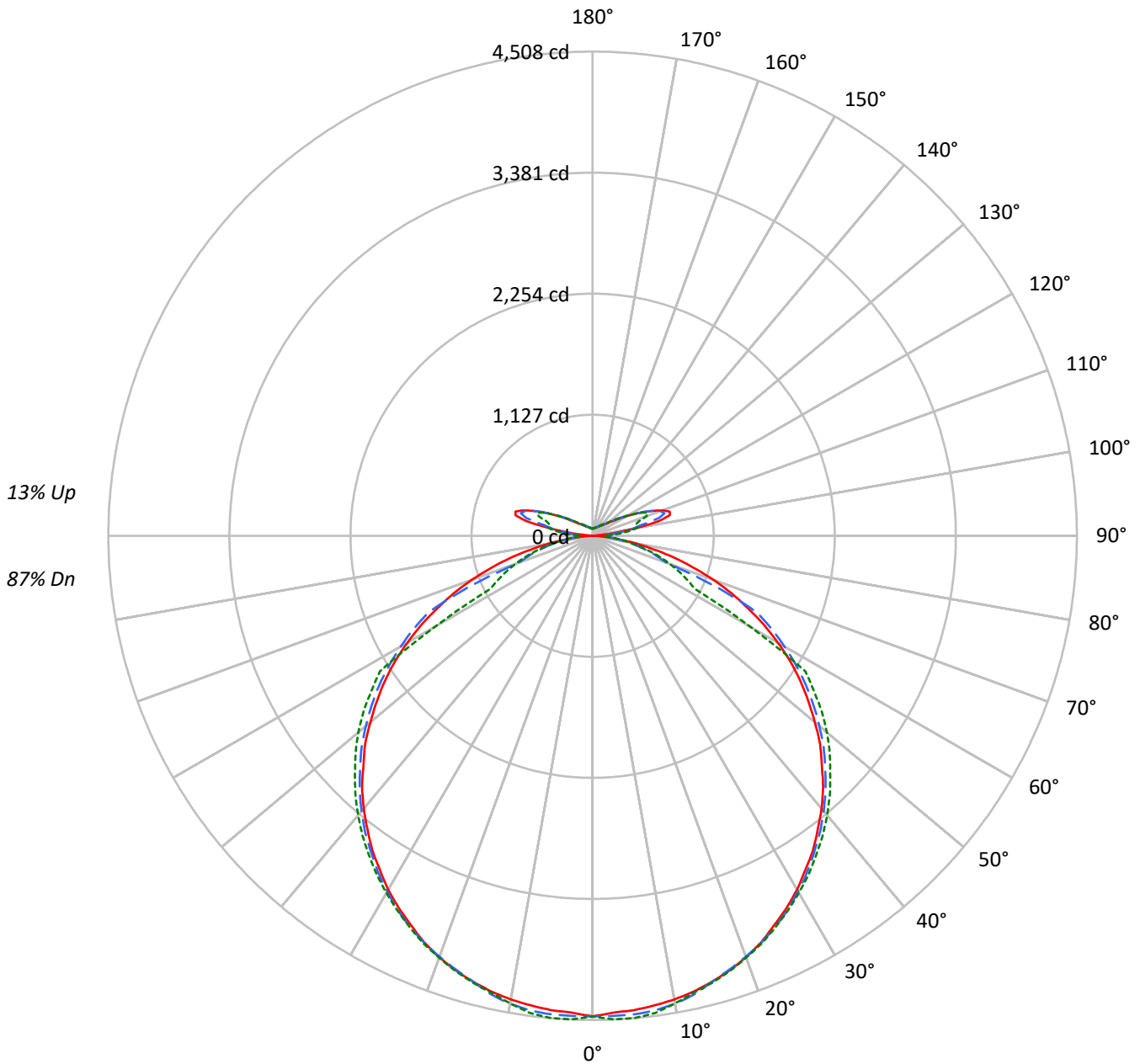
Lumens per Lamp: N/A
Luminaire Lumens: 14352.9 lumens
Efficiency: N/A
Efficacy: 174.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.1')
CIE Type: Semi-Direct

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

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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	50	30	10	0		
RCR																										
0	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87								
1	106	102	98	94	102	98	95	91	92	89	86	86	83	81	80	78	77	74								
2	97	89	83	77	93	86	80	75	81	76	72	75	71	68	71	67	65	62								
3	88	78	71	64	85	76	69	63	71	65	60	67	62	58	63	58	55	52								
4	81	69	61	55	78	67	59	53	63	57	51	59	54	49	56	51	47	45								
5	74	62	53	47	71	60	52	46	57	50	44	53	47	43	50	45	41	39								
6	69	56	47	41	66	54	46	40	51	44	39	48	42	37	45	40	36	34								
7	64	50	42	36	61	49	41	35	46	39	34	44	38	33	41	36	32	30								
8	59	46	38	32	57	45	37	31	42	35	31	40	34	30	38	33	29	27								
9	55	42	34	29	53	41	33	28	39	32	27	37	31	27	35	30	26	24								
10	52	39	31	26	50	38	30	26	36	29	25	34	28	24	32	27	23	22								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14557	14557	14557
5°	14334	14482	14684
10°	14195	14367	14533
15°	14048	14100	14406
20°	13881	13932	14334
25°	13633	13793	14268
30°	13409	13587	14206
35°	13149	13348	14151
40°	12846	13116	14109
45°	12452	12810	14021
50°	12028	12466	13965
55°	11524	12041	13728
60°	10815	11443	10605
65°	9845	10689	7064
70°	8628	5407	6754
75°	6932	4771	6297
80°	4614	3837	5513
85°	1664	2838	4770



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.1	3.0
10°-20°	1217.2	8.5
20°-30°	1852.1	12.9
30°-40°	2251.8	15.7
40°-50°	2367.7	16.5
50°-60°	2162.0	15.1
60°-70°	1386.0	9.7
70°-80°	654.7	4.6
80°-90°	186.0	1.3
90°-100°	219.3	1.5
100°-110°	607.8	4.2
110°-120°	514.5	3.6
120°-130°	245.3	1.7
130°-140°	122.6	0.9
140°-150°	71.2	0.5
150°-160°	41.5	0.3
160°-170°	21.5	0.2
170°-180°	6.6	0.0
0°-30°	3494.4	24.3
0°-40°	5746.2	40.0
0°-60°	10275.9	71.6
0°-90°	12502.6	87.1
90°-120°	1341.6	9.3
90°-150°	1780.7	12.4
90°-180°	1850.0	12.9
0°-180°	14352.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4475	4475	4475	4475	4475	
5°	4433	4450	4473	4497	4507	422
15°	4299	4331	4298	4304	4307	1214
25°	4000	4007	4021	4027	4024	1846
35°	3576	3554	3595	3639	3629	2235
45°	3016	3010	3061	3134	3128	2331
55°	2363	2345	2425	2505	2512	2108
65°	1592	1592	1685	966	970	1579
75°	787	802	520	548	550	829
85°	103	130	162	176	166	152
90°	4	69	106	130	134	7
95°	40	105	181	237	261	121
105°	745	743	639	454	419	707
115°	517	524	526	518	512	520
125°	250	262	269	268	266	235
135°	148	151	156	158	159	117
145°	108	110	113	114	114	68
155°	86	88	89	90	90	40
165°	74	75	75	76	76	21
175°	67	67	68	68	68	6
180°	67	67	67	67	67	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4474.6	4474.6	4474.6	4474.6	4474.6
2.5°	4443.2	4458.2	4474.6	4495.8	4507.5
5°	4433.0	4450.3	4473.0	4497.4	4506.8
7.5°	4411.0	4435.3	4457.3	4474.6	4480.1
10°	4383.5	4412.6	4425.2	4423.6	4419.7
12.5°	4346.6	4377.3	4373.4	4355.2	4358.4
15°	4298.7	4330.9	4298.0	4304.2	4307.4
17.5°	4242.2	4273.6	4235.1	4247.7	4248.5
20°	4176.3	4199.8	4170.0	4180.2	4180.2
22.5°	4097.0	4113.4	4100.9	4107.9	4109.5
25°	4000.4	4006.6	4020.7	4027.1	4023.9
27.5°	3907.8	3899.9	3927.4	3942.3	3934.4
30°	3804.9	3792.3	3824.5	3848.8	3839.4
32.5°	3687.1	3679.3	3716.2	3745.2	3739.7
35°	3575.6	3554.4	3595.2	3639.2	3629.0
37.5°	3443.7	3431.1	3477.4	3523.8	3518.3
40°	3314.9	3293.7	3346.3	3401.3	3395.8
42.5°	3176.8	3151.6	3208.9	3274.9	3268.6
45°	3015.7	3010.3	3061.3	3133.5	3128.1
47.5°	2872.9	2845.4	2916.8	2986.7	2993.1
50°	2700.1	2690.0	2755.1	2839.9	2846.2
52.5°	2531.4	2524.3	2592.5	2678.2	2689.1
55°	2363.3	2345.2	2424.6	2505.4	2511.8
57.5°	2183.6	2164.7	2245.6	2333.5	2346.8
60°	1991.1	1973.1	2061.8	2143.5	1704.6
62.5°	1798.8	1786.2	1878.9	1330.9	1072.6
65°	1592.3	1592.3	1684.9	966.5	969.7
67.5°	1399.2	1386.6	1256.3	868.3	868.3
70°	1191.9	1196.6	723.9	760.9	761.6
72.5°	983.8	1001.1	625.0	654.8	656.4
75°	786.7	801.7	520.5	548.1	550.4
77.5°	577.9	444.4	418.5	439.7	440.5
80°	405.9	280.3	320.4	340.7	338.4
82.5°	237.1	196.3	234.7	249.7	248.9
85°	102.8	130.3	162.5	175.9	166.4
87.5°	32.9	80.9	101.2	109.1	108.3
90°	4.0	69.0	106.2	130.5	134.0
92.5°	13.0	67.5	117.8	154.6	163.3
95°	40.3	104.8	180.9	236.9	260.9
97.5°	196.6	229.5	274.9	336.9	354.5
100°	403.6	435.3	378.4	410.2	417.1
102.5°	632.9	639.0	468.9	435.1	429.9
105°	744.9	742.6	638.6	453.6	418.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	606.7	612.3	602.6	584.3	553.7
115°	516.9	524.5	525.8	517.5	511.7
117.5°	437.0	440.0	442.0	440.0	441.0
120°	365.0	372.0	376.0	373.0	371.0
122.5°	305.0	314.0	319.0	316.0	314.0
125°	250.0	262.0	269.0	268.0	266.0
127.5°	212.0	221.0	230.0	229.0	227.0
130°	184.0	191.0	197.0	198.0	199.0
132.5°	165.0	168.0	174.0	175.0	177.0
135°	148.0	151.0	156.0	158.0	159.0
137.5°	135.0	138.0	142.0	144.0	145.0
140°	124.0	127.0	130.0	132.0	133.0
142.5°	115.0	118.0	121.0	122.0	123.0
145°	108.0	110.0	113.0	114.0	114.0
147.5°	101.0	103.0	105.0	107.0	107.0
150°	95.0	97.0	99.0	100.0	101.0
152.5°	91.0	92.0	94.0	95.0	95.0
155°	86.0	88.0	89.0	90.0	90.0
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°	751.9	755.8	701.0	543.1	451.3
110°	689.7	700.1	672.4	609.3	534.7



(END OF REPORT)