

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: P827063

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

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P827063
REPORT IS A COMBINATION OF REPORTS P826057 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-NL-UNV-L840-CD-UPL12
Description: 12000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NO LENS AND 1200 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

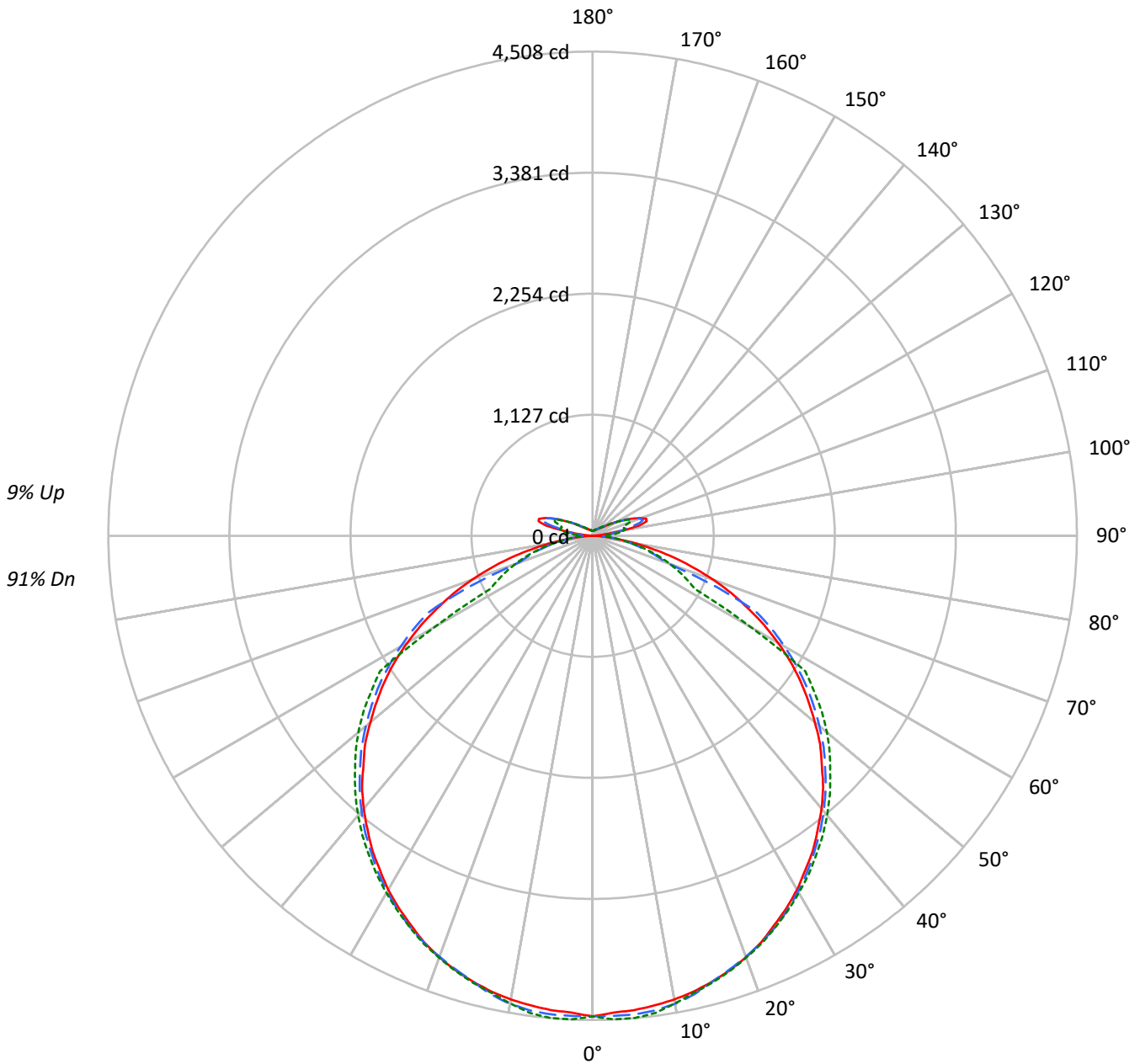
Lumens per Lamp: N/A
Luminaire Lumens: 13808.3 lumens
Efficiency: N/A
Efficacy: 176.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.1')
CIE Type: Direct

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									
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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	91																			
1	107	103	99	95	103	99	96	92	93	90	88	88	86	83	83	81	79	77																			
2	98	90	83	78	94	87	81	76	82	77	73	77	73	70	73	70	67	64																			
3	89	79	71	65	86	77	69	64	72	66	61	68	63	59	65	61	57	54																			
4	82	70	61	55	79	68	60	54	64	58	52	61	55	51	58	53	49	47																			
5	75	62	54	47	72	61	53	47	58	51	45	55	49	44	52	47	43	40																			
6	69	56	47	41	67	55	47	41	52	45	40	49	43	38	47	42	37	35																			
7	64	51	42	36	62	50	42	36	47	40	35	45	39	34	43	37	33	31																			
8	60	46	38	32	58	45	37	32	43	36	31	41	35	30	39	34	30	28																			
9	56	42	34	29	54	41	34	29	40	33	28	38	32	27	36	31	27	25																			
10	52	39	31	26	50	38	31	26	37	30	25	35	29	25	34	28	24	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	3.1
10°-20°	1217.2	8.8
20°-30°	1852.1	13.4
30°-40°	2251.8	16.3
40°-50°	2367.7	17.1
50°-60°	2162.0	15.7
60°-70°	1386.0	10.0
70°-80°	654.7	4.7
80°-90°	184.7	1.3
90°-100°	167.1	1.2
100°-110°	427.1	3.1
110°-120°	359.2	2.6
120°-130°	170.4	1.2
130°-140°	85.2	0.6
140°-150°	49.6	0.4
150°-160°	28.9	0.2
160°-170°	15.0	0.1
170°-180°	4.6	0.0
0°-30°	3494.4	25.3
0°-40°	5746.2	41.6
0°-60°	10275.9	74.4
0°-90°	12501.2	90.5
90°-120°	953.3	6.9
90°-150°	1258.5	9.1
90°-180°	1307.0	9.5
0°-180°	13808.3	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°	3	62	96	116	119	7
95°	27	81	138	186	204	83
105°	521	520	449	322	296	493
115°	364	366	369	364	353	363
125°	176	183	187	185	186	164
135°	102	105	109	110	110	81
145°	75	77	78	79	80	48
155°	60	61	62	63	63	28
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°	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°	3.0	62.0	96.2	116.5	119.0
92.5°	9.0	57.5	100.8	132.6	138.3
95°	27.3	80.8	137.9	185.9	203.9
97.5°	136.6	163.5	202.9	250.9	262.5
100°	277.6	310.3	271.4	297.2	303.1
102.5°	442.9	444.0	330.9	311.1	306.9
105°	520.9	519.6	448.6	321.6	295.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	422.7	427.3	426.6	408.3	385.7
115°	363.9	365.5	368.8	363.5	352.7
117.5°	302.0	306.0	309.0	306.0	304.0
120°	253.0	259.0	261.0	257.0	257.0
122.5°	213.0	218.0	221.0	218.0	219.0
125°	176.0	183.0	187.0	185.0	186.0
127.5°	147.0	153.0	160.0	159.0	159.0
130°	128.0	132.0	137.0	138.0	138.0
132.5°	114.0	117.0	121.0	122.0	123.0
135°	102.0	105.0	109.0	110.0	110.0
137.5°	94.0	96.0	99.0	100.0	101.0
140°	86.0	89.0	91.0	92.0	92.0
142.5°	80.0	82.0	84.0	85.0	86.0
145°	75.0	77.0	78.0	79.0	80.0
147.5°	70.0	72.0	74.0	74.0	75.0
150°	67.0	68.0	69.0	70.0	70.0
152.5°	63.0	64.0	65.0	66.0	66.0
155°	60.0	61.0	62.0	63.0	63.0
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°	523.9	529.8	492.0	380.1	311.3
110°	480.7	490.1	470.4	426.3	369.7



(END OF REPORT)