

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: P827160

Luminaire Tested: **OHBL-24SE-W-UNV-L840-CD-UPL12**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827160
REPORT IS A COMBINATION OF REPORTS P826082 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-24SE-W-UNV-L840-CD-UPL12
Description: 24000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND WIDE LENS AND 1200 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

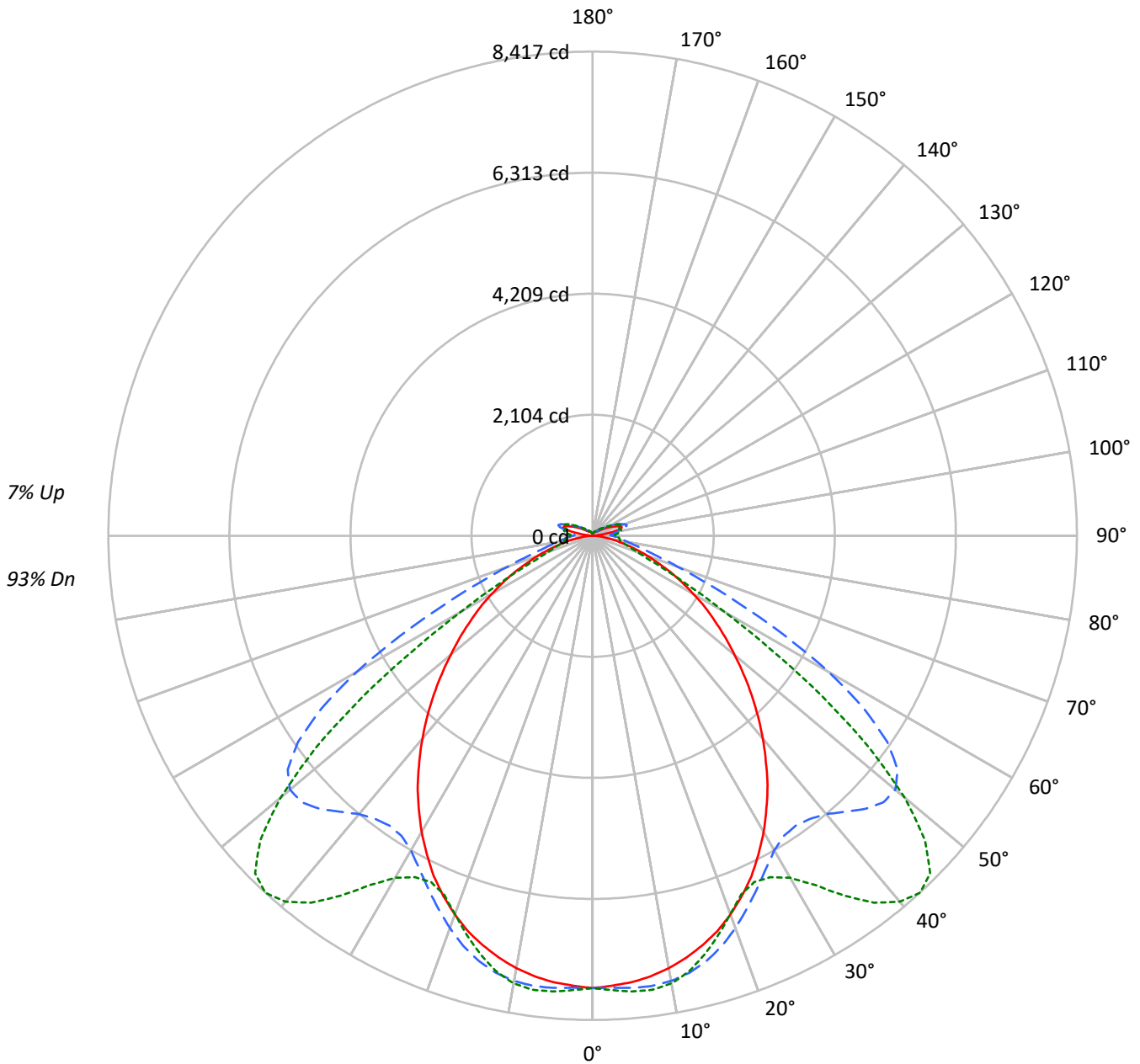
Lumens per Lamp: N/A
Luminaire Lumens: 24786.4 lumens
Efficiency: N/A
Efficacy: 169.3 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Direct

Input Watts (W): 146.4
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	114	114	114	114	107	107	107	101	101	101	96	96	96	93																			
1	108	103	99	95	104	100	96	93	95	92	89	89	87	85	85	83	81	79																			
2	98	90	84	78	95	88	82	77	83	78	74	79	75	71	75	71	69	66																			
3	90	79	71	65	86	77	70	64	73	67	62	70	64	60	66	62	58	56																			
4	82	70	62	55	79	68	60	54	65	58	53	62	56	51	59	54	50	48																			
5	75	63	54	47	73	61	53	47	58	51	45	55	49	44	53	48	43	41																			
6	69	56	47	41	67	55	47	41	52	45	40	50	44	39	48	42	38	36																			
7	64	51	42	36	62	50	41	36	47	40	35	45	39	34	43	38	33	31																			
8	59	46	38	32	58	45	37	32	43	36	31	41	35	30	40	34	30	28																			
9	55	42	34	28	54	41	34	28	40	33	28	38	32	27	37	31	27	25																			
10	52	39	31	26	50	38	30	25	36	30	25	35	29	25	34	28	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13429	13429	13429
5°	13239	13410	13582
10°	13009	13389	13598
15°	12692	13168	13162
20°	12283	12715	12517
25°	11759	12167	12266
30°	11086	11760	13200
35°	10329	11977	15446
40°	9466	12972	17856
45°	8571	14714	19194
50°	7644	16270	17862
55°	6771	16249	13648
60°	5887	13746	8344
65°	4962	9491	5054
70°	3934	6135	3649
75°	2886	4396	3384
80°	1948	3859	3817
85°	1163	4239	6035



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	751.3	3.0
10°-20°	2127.5	8.6
20°-30°	3113.3	12.6
30°-40°	4043.3	16.3
40°-50°	4937.3	19.9
50°-60°	4348.1	17.5
60°-70°	2265.8	9.1
70°-80°	971.7	3.9
80°-90°	469.8	1.9
90°-100°	338.2	1.4
100°-110°	550.2	2.2
110°-120°	436.1	1.8
120°-130°	214.2	0.9
130°-140°	107.2	0.4
140°-150°	60.2	0.2
150°-160°	32.6	0.1
160°-170°	15.0	0.1
170°-180°	4.6	0.0
0°-30°	5992.1	24.2
0°-40°	10035.4	40.5
0°-60°	19320.8	77.9
0°-90°	23028.1	92.9
90°-120°	1324.5	5.3
90°-150°	1706.1	6.9
90°-180°	1758.0	7.1
0°-180°	24786.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7862	7862	7862	7862	7862	
5°	7789	7849	7891	7961	7952	739
15°	7370	7577	7650	7593	7532	2075
25°	6531	6880	6763	6636	6643	2997
35°	5301	5861	6154	7177	7637	3304
45°	3903	4911	6712	8127	8296	3010
55°	2599	4302	6251	5481	4872	2332
65°	1491	2980	2862	1591	1369	1475
75°	600	1394	919	629	597	655
85°	127	497	468	458	463	142
90°	5	198	333	384	396	11
95°	28	163	332	404	431	85
105°	524	570	596	501	479	496
115°	370	394	459	478	476	370
125°	188	200	245	260	262	174
135°	112	115	136	156	158	89
145°	89	87	90	101	105	56
155°	74	75	72	73	73	32
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°	7862.3	7862.3	7862.3	7862.3	7862.3
2.5°	7828.3	7862.3	7864.0	7911.5	7906.4
5°	7789.3	7848.7	7891.1	7960.6	7952.2
7.5°	7724.9	7818.2	7892.8	7969.1	7962.3
10°	7633.3	7760.5	7858.9	7921.6	7901.3
12.5°	7514.5	7682.5	7779.1	7792.7	7753.7
15°	7370.3	7577.3	7650.2	7592.6	7531.5
17.5°	7207.5	7450.1	7475.5	7350.0	7273.7
20°	7003.9	7280.4	7255.0	7082.0	6997.2
22.5°	6778.3	7093.8	7012.4	6830.9	6749.5
25°	6530.7	6880.1	6763.1	6635.9	6642.6
27.5°	6240.6	6637.5	6523.9	6581.6	6690.1
30°	5945.5	6383.1	6313.6	6649.4	6863.2
32.5°	5621.5	6121.9	6184.6	6847.9	7197.3
35°	5300.9	5860.7	6154.1	7177.0	7636.7
37.5°	4946.4	5596.0	6203.3	7556.9	8038.7
40°	4602.0	5338.2	6315.3	7897.9	8305.0
42.5°	4250.9	5107.5	6503.5	8099.7	8416.9
45°	3903.1	4910.7	6712.2	8126.9	8296.5
47.5°	3555.4	4744.5	6856.4	7911.5	7833.4
50°	3219.5	4596.9	6866.5	7394.1	7075.2
52.5°	2905.7	4461.2	6680.0	6569.7	6074.4
55°	2598.7	4301.8	6250.8	5480.7	4871.7
57.5°	2318.8	4081.3	5589.2	4310.3	3645.3
60°	2022.0	3782.7	4734.3	3153.4	2629.2
62.5°	1748.9	3411.2	3775.9	2195.0	1889.7
65°	1491.0	2980.4	2861.6	1591.1	1368.9
67.5°	1217.9	2534.2	2111.9	1160.3	1017.8
70°	1004.2	2120.4	1572.5	902.4	819.3
72.5°	785.4	1726.8	1175.5	732.8	687.0
75°	600.5	1394.3	919.4	629.3	597.1
77.5°	442.7	1102.6	739.6	556.4	525.8
80°	310.4	868.5	619.1	497.0	485.1
82.5°	208.6	671.7	527.5	473.3	475.0
85°	127.2	497.0	468.2	458.0	463.1
87.5°	61.1	352.8	402.0	417.3	422.4
90°	4.7	197.8	332.7	383.8	396.3
92.5°	9.0	160.4	309.4	369.5	383.0
95°	28.4	163.2	332.0	404.4	430.8
97.5°	138.4	233.5	386.5	460.6	475.7
100°	281.1	371.6	443.8	497.2	507.3
102.5°	444.1	499.2	492.4	499.7	498.1
105°	523.8	570.4	595.5	500.7	479.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	428.2	461.7	530.0	537.7	524.1
115°	370.2	393.9	459.4	478.4	475.8
117.5°	313.9	336.5	395.5	412.9	412.6
120°	264.9	284.4	335.6	352.0	353.7
122.5°	224.9	238.4	287.2	302.8	305.5
125°	187.9	200.0	244.7	259.6	262.3
127.5°	157.2	164.9	209.2	225.2	226.9
130°	138.2	142.2	177.7	195.7	199.1
132.5°	124.2	127.2	154.9	172.9	177.3
135°	112.2	115.2	136.1	155.8	157.5
137.5°	104.2	106.2	121.1	139.0	143.4
140°	96.2	99.2	108.0	125.9	127.6
142.5°	91.9	92.2	99.3	113.8	116.5
145°	88.6	87.2	89.9	101.1	105.4
147.5°	83.6	83.9	85.9	92.7	95.4
150°	80.6	81.6	79.2	83.6	87.0
152.5°	76.6	77.6	75.2	76.2	79.6
155°	73.6	74.6	72.2	73.2	73.2
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°	528.5	574.6	623.5	544.3	483.7
110°	484.5	528.8	586.5	572.7	525.1



(END OF REPORT)