

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: P827162

Luminaire Tested: **OHBL-24SE-W-UNV-L840-CD-UPL36**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P827162  
REPORT IS A COMBINATION OF REPORTS P826310 AND G3-2310-221-2  
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-UPL36  
Description: 24000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND WIDE LENS AND 3600 LUMEN UPLIGHT MODULE  
Light Source: -  
Ballast/Driver: -

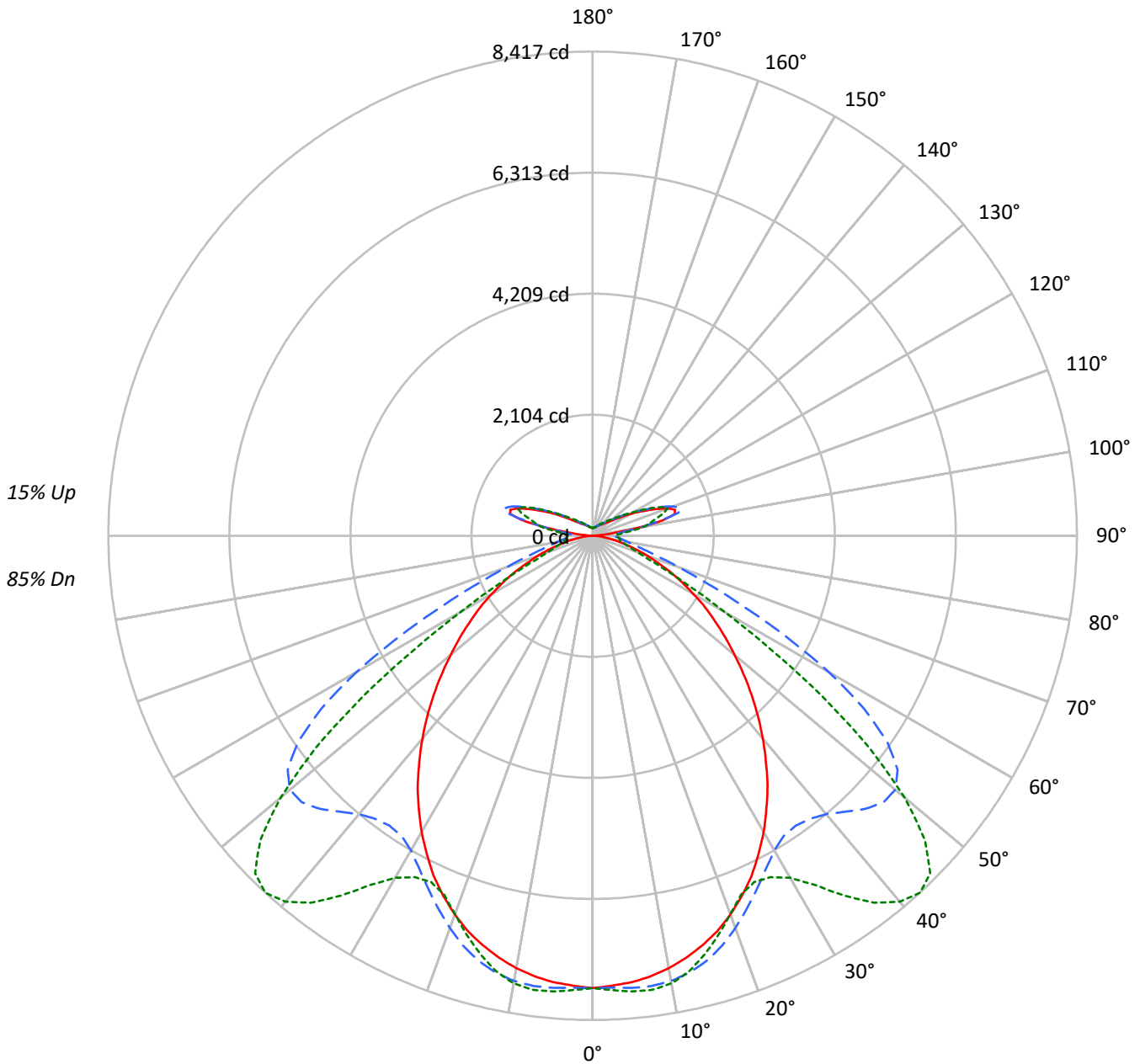
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27123.1 lumens  
Efficiency: N/A  
Efficacy: 162.6 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: Semi-Direct  
  
Input Watts (W): 166.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P827162

CATALOG NUMBER: OHBL-24SE-W-UNV-L840-CD-UPL36

### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				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	115	115	115	115	111	111	111	111	103	103	103	95	95	95	88	88	88	85			
1	106	101	97	94	102	98	94	91	91	88	85	84	82	80	78	77	75	72			
2	96	89	82	77	92	85	80	75	80	75	71	74	70	67	69	66	63	60			
3	88	78	70	64	84	75	68	62	70	64	59	65	61	56	61	57	54	51			
4	80	69	60	54	77	67	59	53	62	56	51	58	53	48	54	50	46	43			
5	74	61	53	46	71	59	51	45	56	49	43	52	46	42	49	44	40	37			
6	68	55	46	40	65	53	45	39	50	43	38	47	41	36	44	39	35	33			
7	63	50	41	35	60	48	40	35	45	38	33	43	37	32	40	35	31	29			
8	58	45	37	31	56	44	36	31	41	34	30	39	33	28	37	31	27	25			
9	54	41	33	28	52	40	32	27	38	31	26	36	30	25	34	28	25	23			
10	51	38	30	25	49	37	30	25	35	28	24	33	27	23	31	26	22	20			

**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



TEST NUMBER: P827162

CATALOG NUMBER: OHBL-24SE-W-UNV-L840-CD-UPL36

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	751.3	2.8
10°-20°	2127.5	7.8
20°-30°	3113.3	11.5
30°-40°	4043.3	14.9
40°-50°	4937.3	18.2
50°-60°	4348.1	16.0
60°-70°	2265.8	8.4
70°-80°	971.7	3.6
80°-90°	474.3	1.7
90°-100°	494.3	1.8
100°-110°	1382.3	5.1
110°-120°	1111.9	4.1
120°-130°	531.9	2.0
130°-140°	269.1	1.0
140°-150°	155.0	0.6
150°-160°	88.4	0.3
160°-170°	44.1	0.2
170°-180°	13.4	0.0
0°-30°	5992.1	22.1
0°-40°	10035.4	37.0
0°-60°	19320.8	71.2
0°-90°	23032.6	84.9
90°-120°	2988.6	11.0
90°-150°	3944.6	14.5
90°-180°	4091.0	15.1
0°-180°	27123.1	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°	10	229	372	425	434	14
95°	65	229	411	498	523	233
105°	1484	1533	1546	1223	1126	1411
115°	1040	1050	1122	1151	1145	1052
125°	519	542	595	603	594	487
135°	310	317	342	364	366	245
145°	232	233	240	253	257	147
155°	190	193	192	194	194	87
165°	151	153	154	155	156	43
175°	138	138	139	139	140	13
180°	136	136	136	136	136	



TEST NUMBER: P827162

CATALOG NUMBER: OHBL-24SE-W-UNV-L840-CD-UPL36

**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°	9.7	228.8	371.7	424.8	434.3
92.5°	25.0	197.4	348.4	411.5	426.0
95°	65.4	229.2	411.0	498.4	522.8
97.5°	377.4	488.5	569.5	681.6	710.7
100°	808.1	898.6	835.8	883.2	908.3
102.5°	1263.1	1341.2	1184.4	1047.7	1021.1
105°	1483.8	1533.4	1545.5	1222.7	1126.1



TEST NUMBER: P827162

CATALOG NUMBER: OHBL-24SE-W-UNV-L840-CD-UPL36

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1220.2	1253.7	1314.0	1333.7	1305.1
115°	1040.2	1049.9	1122.4	1151.4	1144.8
117.5°	892.9	901.5	965.5	981.9	972.6
120°	752.9	766.4	825.6	832.0	825.7
122.5°	625.9	648.4	701.2	709.8	698.5
125°	518.9	542.0	594.7	602.6	594.3
127.5°	445.2	452.9	504.2	516.2	517.9
130°	384.2	392.2	433.7	452.7	454.1
132.5°	342.2	350.2	383.9	403.9	410.3
135°	310.2	317.2	342.1	363.8	366.5
137.5°	284.2	290.2	308.1	330.0	334.4
140°	262.2	268.2	281.0	301.9	303.6
142.5°	245.9	250.2	260.3	276.8	278.5
145°	231.6	233.2	239.9	253.1	257.4
147.5°	219.6	221.9	226.9	234.7	237.4
150°	208.6	211.6	212.2	217.6	222.0
152.5°	198.6	201.6	202.2	203.2	207.6
155°	189.6	192.6	192.2	194.2	194.2
157.5°	168.0	171.0	174.0	175.0	175.0
160°	162.0	164.0	167.0	167.0	168.0
162.5°	156.0	158.0	160.0	161.0	162.0
165°	151.0	153.0	154.0	155.0	156.0
167.5°	147.0	148.0	149.0	150.0	150.0
170°	143.0	144.0	145.0	145.0	146.0
172.5°	140.0	141.0	142.0	142.0	142.0
175°	138.0	138.0	139.0	139.0	140.0
177.5°	136.0	137.0	137.0	137.0	138.0
180°	136.0	136.0	136.0	136.0	136.0



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°







107.5°	1499.5	1546.6	1600.5	1455.3	<i>1284.7</i>
110°	1384.5	1434.8	1491.5	1461.7	<i>1386.1</i>



(END OF REPORT)