

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: P830443

Luminaire Tested: **OHBL-36SE-W-UNV-L830-CD**

Issue Date: 5/3/2024



**Test Information**

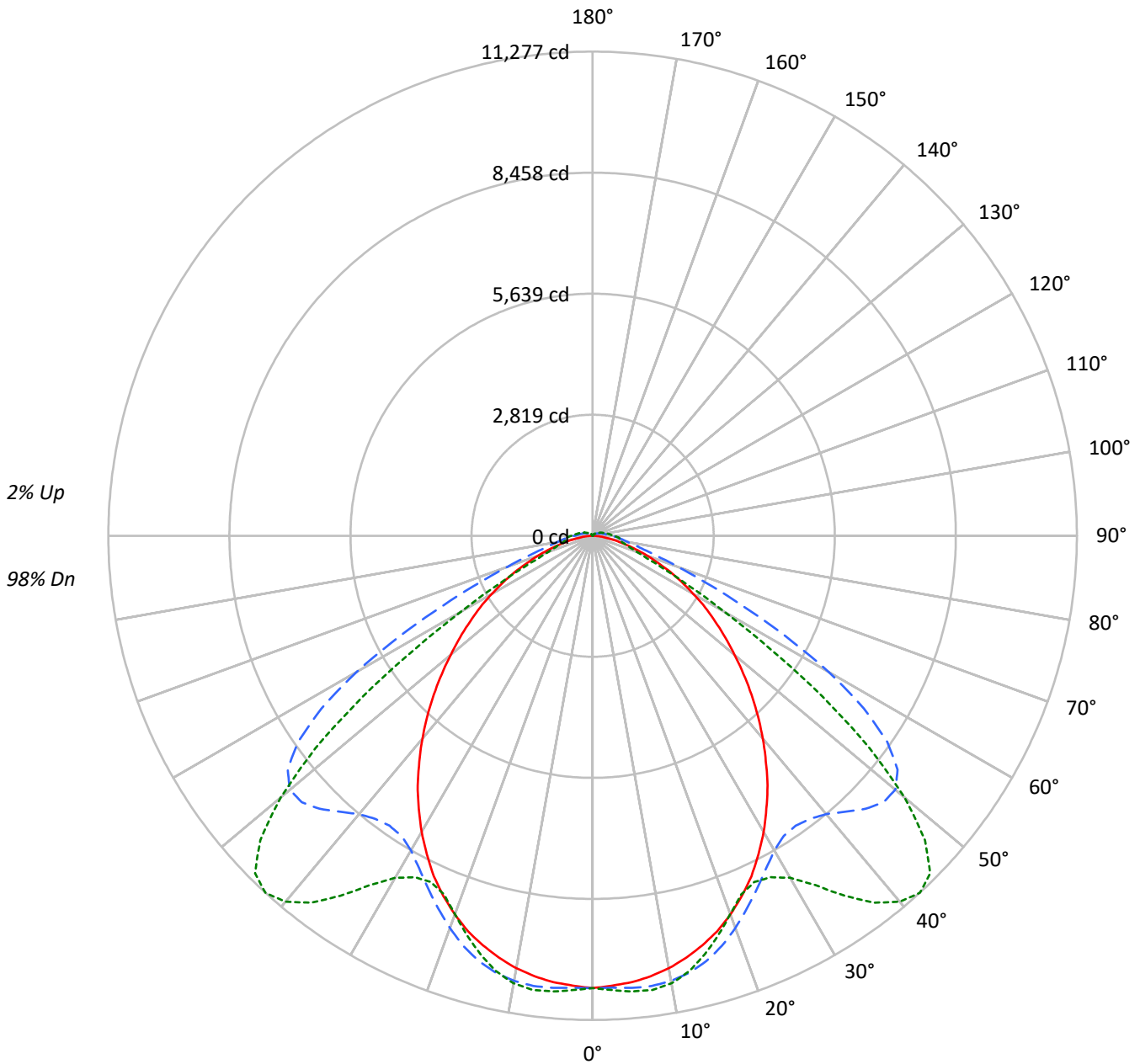
Test Method: LM-79-08  
Report Number: P830443  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-36SE-W-UNV-L830-CD  
Description: 36000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND WIDE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31540.0 lumens  
Efficiency: N/A  
Efficacy: 149.5 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62  
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 211  
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: P830443  
CATALOG NUMBER: OHBL-36SE-W-UNV-L830-CD

### 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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98																			
1	109	104	100	96	106	102	98	95	97	94	91	93	90	88	89	87	85	83																			
2	99	91	85	79	96	89	83	78	85	80	76	82	77	74	78	75	72	70																			
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	69	65	61	59																			
4	83	71	62	56	80	69	61	55	67	60	54	64	58	53	62	57	52	50																			
5	76	63	54	48	74	62	54	47	60	52	47	57	51	46	55	50	45	43																			
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	38																			
7	65	51	43	36	63	50	42	36	49	41	36	47	40	35	45	40	35	33																			
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29																			
9	56	43	34	29	55	42	34	29	41	34	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	39	31	26	38	31	26	36	30	26	35	30	25	24																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	16659	16659	16659
5°	16504	16643	16778
10°	16297	16625	16727
15°	15979	16358	16121
20°	15543	15803	15263
25°	14960	15129	14887
30°	14185	14630	15939
35°	13301	14909	18550
40°	12275	16157	21315
45°	11202	18340	22753
50°	10083	20296	21004
55°	9031	20290	15894
60°	7961	17185	9602
65°	6830	11884	5726
70°	5549	7697	4046
75°	4221	5531	3633
80°	3030	4880	3881
85°	2056	5408	5469



TEST NUMBER: P830443

CATALOG NUMBER: OHBL-36SE-W-UNV-L830-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1006.6	3.2
10°-20°	2850.4	9.0
20°-30°	4171.2	13.2
30°-40°	5417.1	17.2
40°-50°	6615.0	21.0
50°-60°	5825.5	18.5
60°-70°	3035.7	9.6
70°-80°	1301.8	4.1
80°-90°	625.2	2.0
90°-100°	293.7	0.9
100°-110°	182.6	0.6
110°-120°	107.9	0.3
120°-130°	58.7	0.2
130°-140°	29.4	0.1
140°-150°	14.2	0.0
150°-160°	4.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	8028.2	25.5
0°-40°	13445.3	42.6
0°-60°	25885.8	82.1
0°-90°	30848.5	97.8
90°-120°	584.2	1.9
90°-150°	686.5	2.2
90°-180°	691.0	2.2
0°-180°	31540.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10534	10534	10534	10534	10534	
5°	10436	10516	10572	10666	10654	990
15°	9875	10152	10250	10172	10091	2780
25°	8750	9218	9061	8891	8900	4015
35°	7102	7852	8245	9616	10232	4427
45°	5229	6579	8993	10888	11116	4032
55°	3482	5764	8375	7343	6527	3125
65°	1998	3993	3834	2132	1834	1976
75°	804	1868	1232	843	800	877
85°	170	666	627	614	620	190
90°	2	241	414	473	484	12
95°	4	141	330	386	398	3
105°	9	80	214	257	261	10
115°	14	46	132	161	166	14
125°	16	23	77	100	102	14
135°	14	14	36	61	64	11
145°	18	14	16	30	34	11
155°	18	18	14	14	14	6
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P830443

CATALOG NUMBER: OHBL-36SE-W-UNV-L830-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	10533.8	10533.8	10533.8	10533.8	10533.8
2.5°	10488.3	10533.8	10536.1	10599.7	10592.9
5°	10436.1	10515.6	10572.4	10665.6	10654.2
7.5°	10349.7	10474.7	10574.7	10677.0	10667.9
10°	10227.0	10397.4	10529.2	10613.3	10586.1
12.5°	10067.9	10292.9	10422.4	10440.6	10388.3
15°	9874.7	10152.0	10249.7	10172.4	10090.6
17.5°	9656.5	9981.5	10015.6	9847.4	9745.2
20°	9383.8	9754.3	9720.2	9488.4	9374.7
22.5°	9081.6	9504.3	9395.2	9152.0	9042.9
25°	8749.7	9217.9	9061.1	8890.7	8899.7
27.5°	8361.1	8892.9	8740.7	8817.9	8963.4
30°	7965.7	8552.0	8458.8	8908.8	9195.2
32.5°	7531.6	8202.0	8286.1	9174.7	9642.9
35°	7102.1	7852.0	8245.2	9615.6	10231.5
37.5°	6627.1	7497.5	8311.1	10124.7	10770.1
40°	6165.7	7152.1	8461.1	10581.5	11126.9
42.5°	5695.3	6843.0	8713.4	10852.0	11276.9
45°	5229.4	6579.4	8992.9	10888.3	11115.6
47.5°	4763.5	6356.6	9186.1	10599.7	10495.1
50°	4313.5	6158.9	9199.7	9906.5	9479.3
52.5°	3893.1	5977.1	8949.7	8802.0	8138.4
55°	3481.7	5763.5	8374.8	7343.0	6527.1
57.5°	3106.7	5468.0	7488.4	5774.8	4883.9
60°	2709.0	5068.0	6343.0	4224.9	3522.6
62.5°	2343.1	4570.3	5058.9	2940.8	2531.7
65°	1997.7	3993.1	3834.0	2131.8	1834.0
67.5°	1631.8	3395.4	2829.5	1554.5	1363.6
70°	1345.4	2840.8	2106.8	1209.1	1097.7
72.5°	1052.2	2313.6	1575.0	981.8	920.4
75°	804.5	1868.1	1231.8	843.2	800.0
77.5°	593.2	1477.2	990.9	745.4	704.5
80°	415.9	1163.6	829.5	665.9	650.0
82.5°	279.5	900.0	706.8	634.1	636.3
85°	170.4	665.9	627.3	613.6	620.4
87.5°	81.8	472.7	538.6	559.1	565.9
90°	2.3	240.9	413.6	472.7	484.1
92.5°	0.0	184.1	363.6	422.7	434.1
95°	4.5	140.9	329.5	386.4	397.7
97.5°	4.5	115.9	295.4	354.5	361.4
100°	6.8	100.0	263.6	320.4	327.3
102.5°	6.8	88.6	236.4	286.4	290.9
105°	9.1	79.5	213.6	256.8	261.4



TEST NUMBER: P830443

CATALOG NUMBER: OHBL-36SE-W-UNV-L830-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	13.6	54.5	150.0	181.8	186.4
115°	13.6	45.5	131.8	161.4	165.9
117.5°	15.9	40.9	115.9	143.2	145.5
120°	15.9	34.1	100.0	127.3	129.5
122.5°	15.9	27.3	88.6	113.6	115.9
125°	15.9	22.7	77.3	100.0	102.3
127.5°	13.6	15.9	65.9	88.6	90.9
130°	13.6	13.6	54.5	77.3	81.8
132.5°	13.6	13.6	45.5	68.2	72.7
135°	13.6	13.6	36.4	61.4	63.6
137.5°	13.6	13.6	29.5	52.3	56.8
140°	13.6	13.6	22.7	45.5	47.7
142.5°	15.9	13.6	20.5	38.6	40.9
145°	18.2	13.6	15.9	29.5	34.1
147.5°	18.2	15.9	15.9	25.0	27.3
150°	18.2	18.2	13.6	18.2	22.7
152.5°	18.2	18.2	13.6	13.6	18.2
155°	18.2	18.2	13.6	13.6	13.6
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	11.4	70.5	190.9	229.5	234.1
110°	11.4	61.4	168.2	204.5	209.1



(END OF REPORT)