

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: P830446

Luminaire Tested: **OHBL-36SE-W-UNV-L850-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830446  
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-L850-CD  
Description: 36000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND WIDE LENS  
Light Source: -  
Ballast/Driver: -

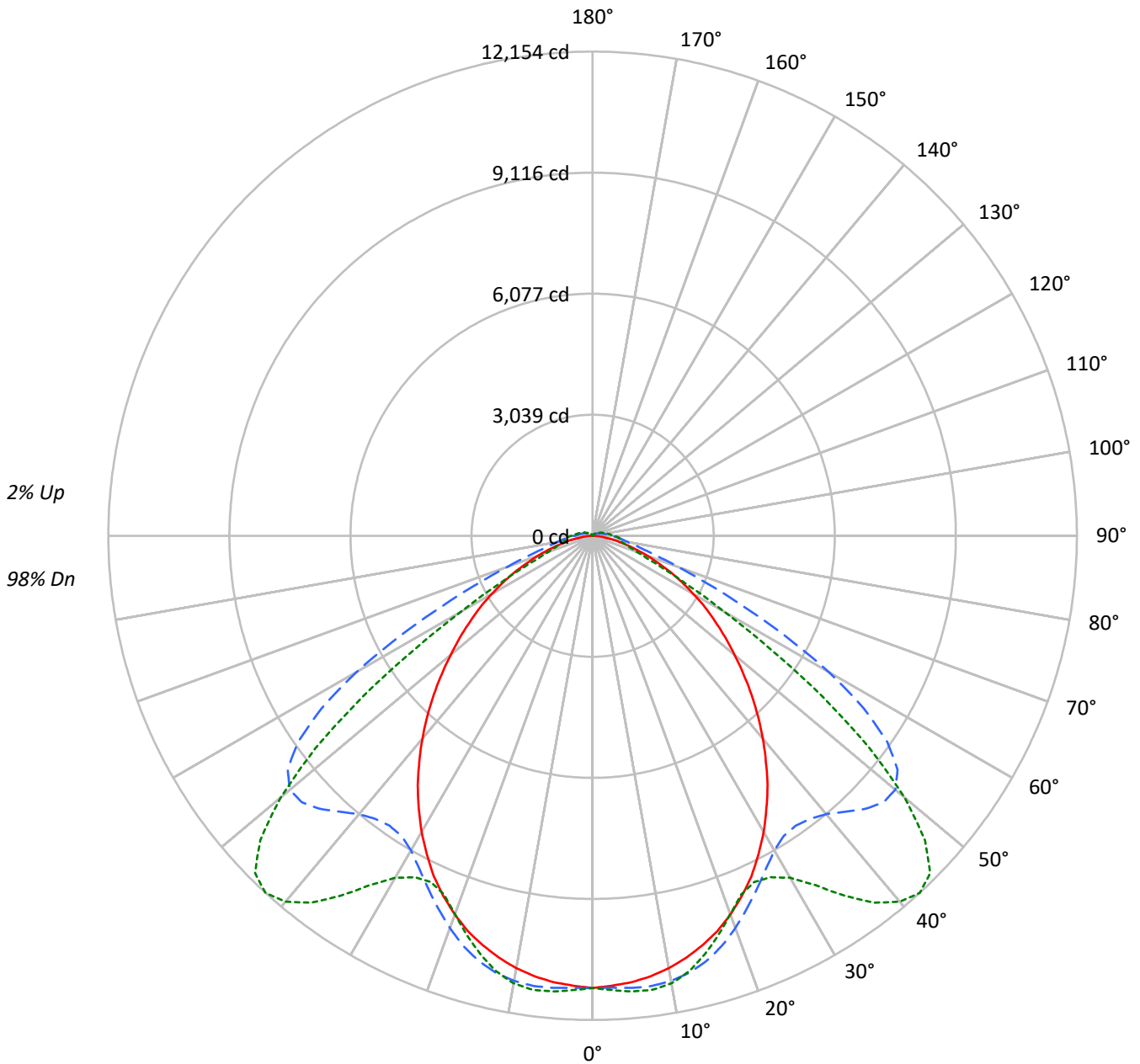
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33992.0 lumens  
Efficiency: N/A  
Efficacy: 161.1 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: P830446

CATALOG NUMBER: OHBL-36SE-W-UNV-L850-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P830446

CATALOG NUMBER: OHBL-36SE-W-UNV-L850-CD

**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°	17954	17954	17954
5°	17787	17937	18082
10°	17563	17918	18027
15°	17221	17629	17374
20°	16752	17031	16449
25°	16124	16306	16044
30°	15288	15768	17178
35°	14335	16068	19992
40°	13229	17413	22972
45°	12073	19766	24522
50°	10867	21874	22637
55°	9733	21867	17130
60°	8579	18521	10348
65°	7361	12807	6171
70°	5980	8296	4361
75°	4550	5961	3915
80°	3265	5259	4183
85°	2216	5828	5894



TEST NUMBER: P830446

CATALOG NUMBER: OHBL-36SE-W-UNV-L850-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1084.9	3.2
10°-20°	3072.1	9.0
20°-30°	4495.4	13.2
30°-40°	5838.2	17.2
40°-50°	7129.2	21.0
50°-60°	6278.4	18.5
60°-70°	3271.7	9.6
70°-80°	1403.0	4.1
80°-90°	673.8	2.0
90°-100°	316.6	0.9
100°-110°	196.7	0.6
110°-120°	116.3	0.3
120°-130°	63.2	0.2
130°-140°	31.7	0.1
140°-150°	15.3	0.0
150°-160°	5.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
<hr/>		
0°-30°	8652.4	25.5
0°-40°	14490.6	42.6
0°-60°	27898.2	82.1
0°-90°	33246.8	97.8
90°-120°	629.6	1.9
90°-150°	739.9	2.2
90°-180°	745.0	2.2
0°-180°	33992.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11353	11353	11353	11353	11353	
5°	11247	11333	11394	11495	11482	###
15°	10642	10941	11046	10963	10875	2997
25°	9430	9934	9766	9582	9592	4328
35°	7654	8462	8886	10363	11027	4771
45°	5636	7091	9692	11735	11980	4346
55°	3752	6212	9026	7914	7034	3368
65°	2153	4304	4132	2298	1977	2130
75°	867	2013	1328	909	862	945
85°	184	718	676	661	669	205
90°	2	260	446	510	522	13
95°	5	152	355	416	429	4
105°	10	86	230	277	282	10
115°	15	49	142	174	179	15
125°	17	24	83	108	110	15
135°	15	15	39	66	69	11
145°	20	15	17	32	37	11
155°	20	20	15	15	15	6
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P830446

CATALOG NUMBER: OHBL-36SE-W-UNV-L850-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	11352.7	11352.7	11352.7	11352.7	11352.7
2.5°	11303.7	11352.7	11355.2	11423.7	11416.4
5°	11247.4	11333.1	11394.3	11494.8	11482.5
7.5°	11154.3	11289.0	11396.8	11507.0	11497.2
10°	11022.0	11205.7	11347.8	11438.4	11409.0
12.5°	10850.6	11093.1	11232.7	11252.3	11195.9
15°	10642.4	10941.2	11046.5	10963.3	10875.1
17.5°	10407.3	10757.5	10794.3	10613.0	10502.8
20°	10113.3	10512.6	10475.8	10226.0	10103.5
22.5°	9787.6	10243.2	10125.6	9863.5	9745.9
25°	9430.0	9934.5	9765.5	9581.8	9591.6
27.5°	9011.1	9584.3	9420.2	9503.5	9660.2
30°	8584.9	9216.9	9116.5	9601.4	9910.0
32.5°	8117.1	8839.7	8930.3	9888.0	10392.6
35°	7654.2	8462.5	8886.2	10363.2	11026.9
37.5°	7142.3	8080.4	8957.2	10911.8	11607.4
40°	6645.1	7708.1	9118.9	11404.1	11992.0
42.5°	6138.1	7375.0	9390.8	11695.6	12153.6
45°	5635.9	7090.8	9692.1	11734.8	11979.7
47.5°	5133.8	6850.8	9900.2	11423.7	11311.1
50°	4648.9	6637.7	9914.9	10676.7	10216.2
52.5°	4195.7	6441.8	9645.5	9486.3	8771.1
55°	3752.4	6211.5	9025.8	7913.8	7034.5
57.5°	3348.3	5893.1	8070.6	6223.8	5263.6
60°	2919.6	5462.0	6836.1	4553.3	3796.5
62.5°	2525.3	4925.6	5452.2	3169.5	2728.6
65°	2153.0	4303.5	4132.0	2297.5	1976.6
67.5°	1758.6	3659.3	3049.4	1675.4	1469.6
70°	1450.0	3061.7	2270.5	1303.1	1183.0
72.5°	1134.0	2493.4	1697.4	1058.1	992.0
75°	867.1	2013.4	1327.5	908.7	862.2
77.5°	639.3	1592.1	1067.9	803.4	759.3
80°	448.2	1254.1	894.0	717.7	700.5
82.5°	301.3	969.9	761.7	683.4	685.8
85°	183.7	717.7	676.0	661.3	668.7
87.5°	88.2	509.5	580.5	602.5	609.9
90°	2.4	259.6	445.8	509.5	521.7
92.5°	0.0	198.4	391.9	455.6	467.8
95°	4.9	151.9	355.2	416.4	428.6
97.5°	4.9	124.9	318.4	382.1	389.4
100°	7.3	107.8	284.1	345.4	352.7
102.5°	7.3	95.5	254.7	308.6	313.5
105°	9.8	85.7	230.2	276.8	281.7



TEST NUMBER: P830446

CATALOG NUMBER: OHBL-36SE-W-UNV-L850-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	14.7	58.8	161.7	195.9	200.8
115°	14.7	49.0	142.1	173.9	178.8
117.5°	17.1	44.1	124.9	154.3	156.8
120°	17.1	36.7	107.8	137.2	139.6
122.5°	17.1	29.4	95.5	122.5	124.9
125°	17.1	24.5	83.3	107.8	110.2
127.5°	14.7	17.1	71.0	95.5	98.0
130°	14.7	14.7	58.8	83.3	88.2
132.5°	14.7	14.7	49.0	73.5	78.4
135°	14.7	14.7	39.2	66.1	68.6
137.5°	14.7	14.7	31.8	56.3	61.2
140°	14.7	14.7	24.5	49.0	51.4
142.5°	17.1	14.7	22.0	41.6	44.1
145°	19.6	14.7	17.1	31.8	36.7
147.5°	19.6	17.1	17.1	26.9	29.4
150°	19.6	19.6	14.7	19.6	24.5
152.5°	19.6	19.6	14.7	14.7	19.6
155°	19.6	19.6	14.7	14.7	14.7
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°	12.2	75.9	205.7	247.4	252.3
110°	12.2	66.1	181.3	220.4	225.3



(END OF REPORT)