

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: P830449

Luminaire Tested: **OHBL-36SE-W-UNV-L940-CD**

Issue Date: 5/3/2024



**Test Information**

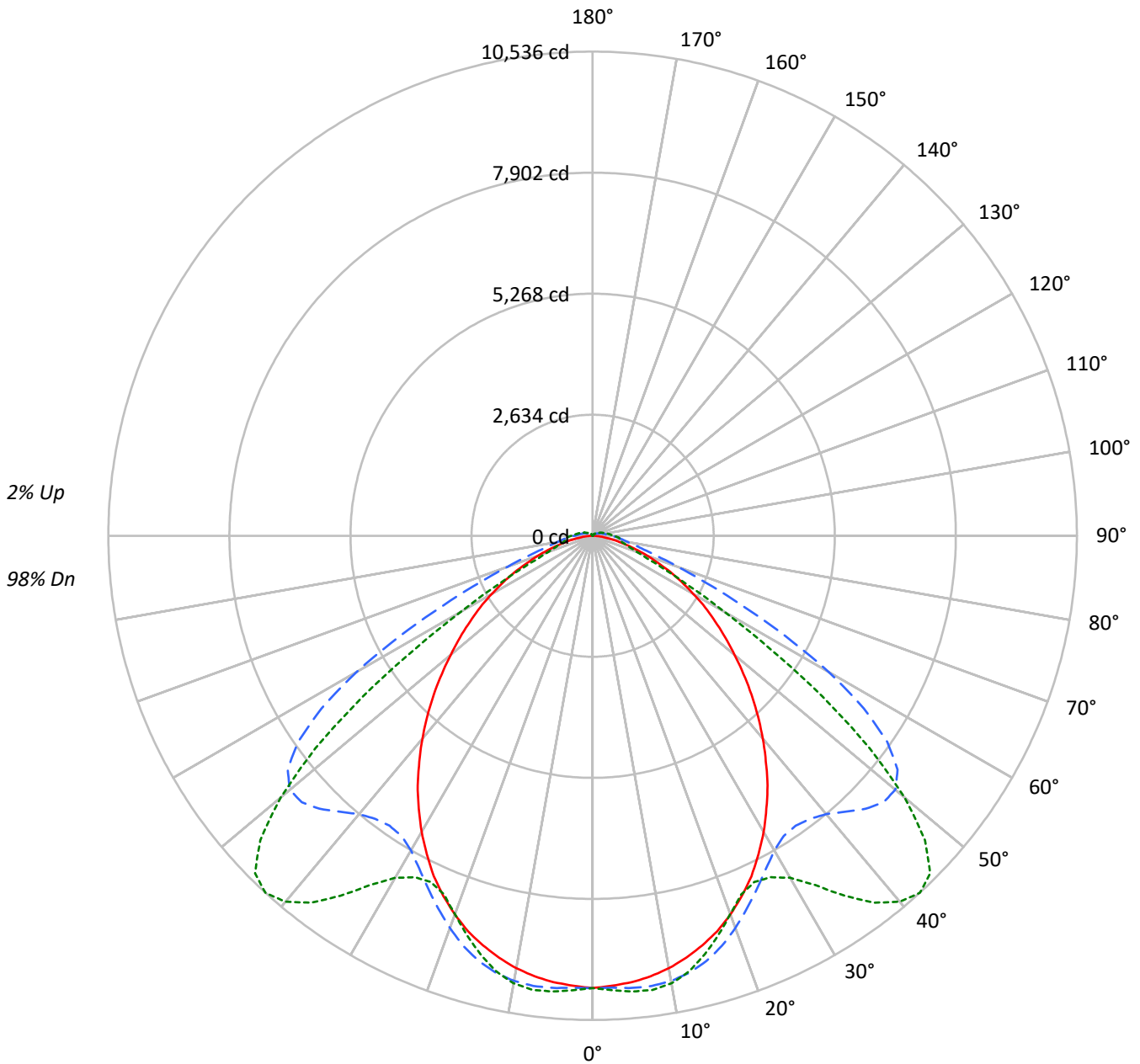
Test Method: LM-79-08  
Report Number: P830449  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-36SE-W-UNV-L940-CD  
Description: 36000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND WIDE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29468.0 lumens  
Efficiency: N/A  
Efficacy: 139.7 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

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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	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°	15565	15565	15565
5°	15420	15550	15676
10°	15226	15533	15628
15°	14929	15283	15062
20°	14522	14765	14260
25°	13978	14135	13909
30°	13253	13669	14892
35°	12427	13930	17332
40°	11469	15096	19915
45°	10466	17135	21259
50°	9420	18963	19624
55°	8438	18957	14850
60°	7438	16056	8971
65°	6381	11103	5350
70°	5184	7192	3780
75°	3944	5168	3394
80°	2831	4559	3626
85°	1922	5052	5110



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	940.5	3.2
10°-20°	2663.2	9.0
20°-30°	3897.1	13.2
30°-40°	5061.2	17.2
40°-50°	6180.4	21.0
50°-60°	5442.8	18.5
60°-70°	2836.3	9.6
70°-80°	1216.3	4.1
80°-90°	584.1	2.0
90°-100°	274.4	0.9
100°-110°	170.6	0.6
110°-120°	100.9	0.3
120°-130°	54.8	0.2
130°-140°	27.5	0.1
140°-150°	13.2	0.0
150°-160°	4.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	7500.8	25.5
0°-40°	12562.0	42.6
0°-60°	24185.3	82.1
0°-90°	28822.0	97.8
90°-120°	545.8	1.9
90°-150°	641.4	2.2
90°-180°	646.0	2.2
0°-180°	29468.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9842	9842	9842	9842	9842	
5°	9750	9825	9878	9965	9954	925
15°	9226	9485	9576	9504	9428	2598
25°	8175	8612	8466	8307	8315	3752
35°	6636	7336	7704	8984	9559	4136
45°	4886	6147	8402	10173	10385	3767
55°	3253	5385	7825	6861	6098	2919
65°	1866	3731	3582	1992	1714	1847
75°	752	1745	1151	788	747	820
85°	159	622	586	573	580	178
90°	2	225	386	442	452	11
95°	4	132	308	361	372	3
105°	8	74	200	240	244	9
115°	13	42	123	151	155	13
125°	15	21	72	93	96	13
135°	13	13	34	57	60	10
145°	17	13	15	28	32	10
155°	17	17	13	13	13	5
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9841.8	9841.8	9841.8	9841.8	9841.8
2.5°	9799.3	9841.8	9843.9	9903.4	9897.0
5°	9750.5	9824.8	9877.9	9964.9	9954.3
7.5°	9669.8	9786.6	9880.0	9975.5	9967.1
10°	9555.1	9714.4	9837.5	9916.1	9890.6
12.5°	9406.5	9616.7	9737.7	9754.7	9705.9
15°	9226.0	9485.0	9576.4	9504.2	9427.7
17.5°	9022.2	9325.8	9357.6	9200.5	9105.0
20°	8767.4	9113.5	9081.6	8865.0	8758.9
22.5°	8484.9	8879.9	8778.0	8550.8	8448.8
25°	8174.9	8612.3	8465.8	8306.6	8315.1
27.5°	7811.8	8308.7	8166.4	8238.6	8374.5
30°	7442.4	7990.2	7903.1	8323.6	8591.1
32.5°	7036.8	7663.2	7741.8	8572.0	9009.4
35°	6635.5	7336.2	7703.6	8983.9	9559.4
37.5°	6191.7	7005.0	7765.1	9459.6	10062.6
40°	5760.7	6682.2	7905.3	9886.4	10396.0
42.5°	5321.1	6393.4	8141.0	10139.0	10536.1
45°	4885.9	6147.1	8402.1	10173.0	10385.4
47.5°	4450.6	5939.0	8582.6	9903.4	9805.7
50°	4030.1	5754.3	8595.4	9255.7	8856.5
52.5°	3637.3	5584.4	8361.8	8223.8	7603.8
55°	3253.0	5384.8	7824.6	6860.6	6098.3
57.5°	2902.6	5108.8	6996.5	5395.5	4563.1
60°	2531.0	4735.1	5926.3	3947.3	3291.2
62.5°	2189.2	4270.1	4726.6	2747.6	2365.4
65°	1866.4	3730.7	3582.1	1991.7	1713.6
67.5°	1524.6	3172.3	2643.6	1452.4	1274.0
70°	1257.0	2654.2	1968.4	1129.6	1025.6
72.5°	983.1	2161.6	1471.5	917.3	860.0
75°	751.7	1745.4	1150.9	787.8	747.4
77.5°	554.2	1380.2	925.8	696.5	658.2
80°	388.6	1087.2	775.0	622.1	607.3
82.5°	261.2	840.9	660.4	592.4	594.5
85°	159.3	622.1	586.0	573.3	579.7
87.5°	76.4	441.7	503.2	522.3	528.7
90°	2.1	225.1	386.5	441.7	452.3
92.5°	0.0	172.0	339.7	394.9	405.6
95°	4.2	131.6	307.9	361.0	371.6
97.5°	4.2	108.3	276.0	331.2	337.6
100°	6.4	93.4	246.3	299.4	305.8
102.5°	6.4	82.8	220.8	267.5	271.8
105°	8.5	74.3	199.6	239.9	244.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	12.7	51.0	140.1	169.9	174.1
115°	12.7	42.5	123.2	150.8	155.0
117.5°	14.9	38.2	108.3	133.8	135.9
120°	14.9	31.9	93.4	118.9	121.0
122.5°	14.9	25.5	82.8	106.2	108.3
125°	14.9	21.2	72.2	93.4	95.6
127.5°	12.7	14.9	61.6	82.8	84.9
130°	12.7	12.7	51.0	72.2	76.4
132.5°	12.7	12.7	42.5	63.7	67.9
135°	12.7	12.7	34.0	57.3	59.5
137.5°	12.7	12.7	27.6	48.8	53.1
140°	12.7	12.7	21.2	42.5	44.6
142.5°	14.9	12.7	19.1	36.1	38.2
145°	17.0	12.7	14.9	27.6	31.9
147.5°	17.0	14.9	14.9	23.4	25.5
150°	17.0	17.0	12.7	17.0	21.2
152.5°	17.0	17.0	12.7	12.7	17.0
155°	17.0	17.0	12.7	12.7	12.7
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°	10.6	65.8	178.4	214.5	218.7
110°	10.6	57.3	157.1	191.1	195.3



(END OF REPORT)