

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: P829727

Luminaire Tested: **OHBL-100SE-W-UNV-L930-CD**

Issue Date: 5/3/2024



**Test Information**

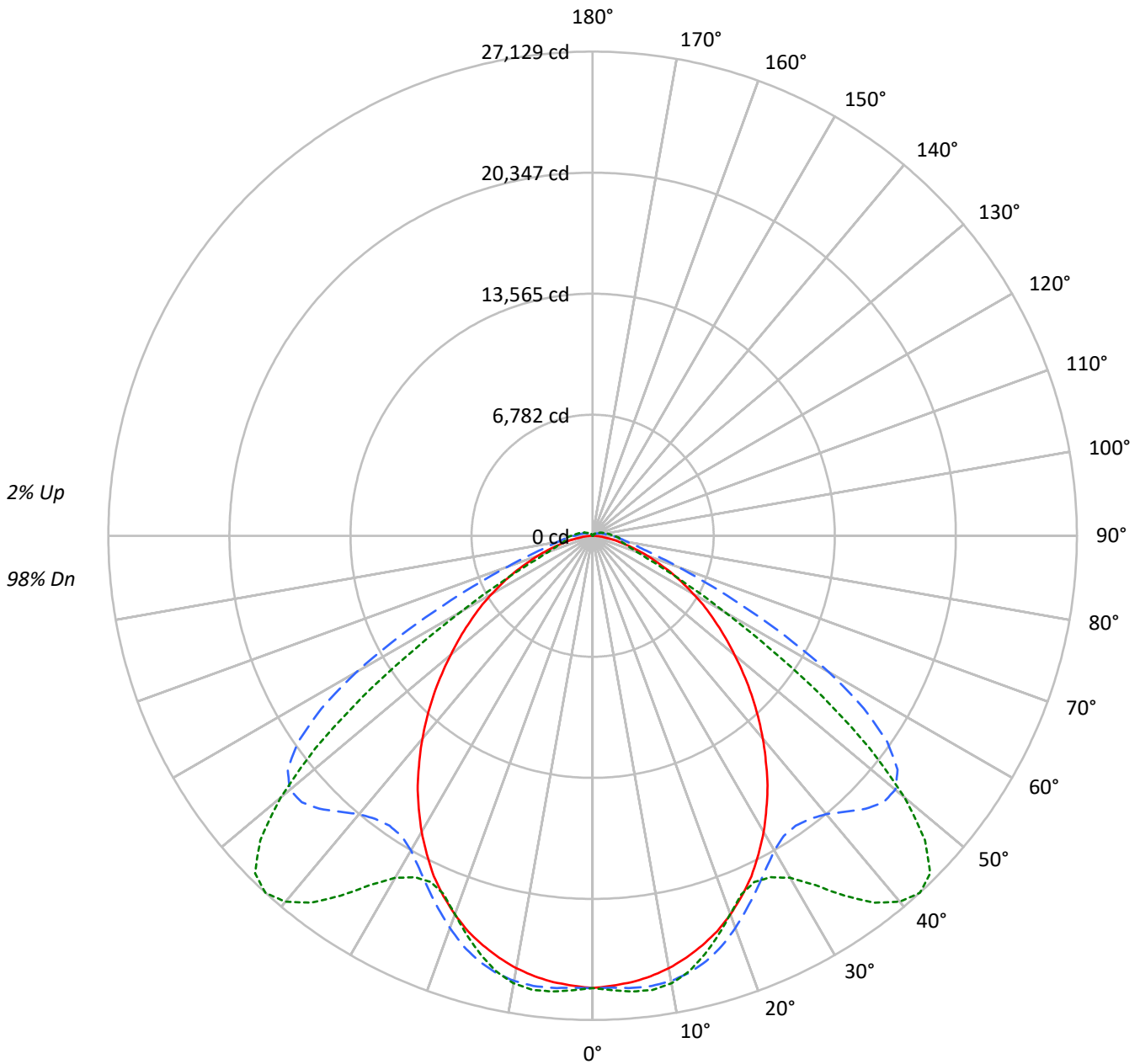
Test Method: LM-79-08  
Report Number: P829727  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-100SE-W-UNV-L930-CD  
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 3000K LEDS AND WIDE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 75877.0 lumens  
Efficiency: N/A  
Efficacy: 128.6 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): 590.1  
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: P829727  
CATALOG NUMBER: OHBL-100SE-W-UNV-L930-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°	40077	40077	40077
5°	39704	40039	40363
10°	39205	39996	40240
15°	38441	39353	38783
20°	37393	38017	36719
25°	35991	36397	35814
30°	34126	35197	38346
35°	31998	35868	44627
40°	29530	38870	51278
45°	26949	44122	54738
50°	24257	48828	50530
55°	21727	48813	38238
60°	19151	41344	23099
65°	16431	28589	13775
70°	13349	18518	9734
75°	10156	13307	8739
80°	7289	11739	9337
85°	4948	13009	13157



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CATALOG NUMBER: OHBL-100SE-W-UNV-L930-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2421.7	3.2
10°-20°	6857.4	9.0
20°-30°	10034.7	13.2
30°-40°	13032.1	17.2
40°-50°	15913.9	21.0
50°-60°	14014.7	18.5
60°-70°	7303.1	9.6
70°-80°	3131.8	4.1
80°-90°	1504.1	2.0
90°-100°	706.6	0.9
100°-110°	439.2	0.6
110°-120°	259.7	0.3
120°-130°	141.2	0.2
130°-140°	70.8	0.1
140°-150°	34.1	0.0
150°-160°	11.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	19313.8	25.5
0°-40°	32345.9	42.6
0°-60°	62274.5	82.1
0°-90°	74213.5	97.8
90°-120°	1405.5	1.9
90°-150°	1651.6	2.2
90°-180°	1663.0	2.2
0°-180°	75877.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	25342	25342	25342	25342	25342	
5°	25106	25298	25434	25659	25631	###
15°	23756	24423	24658	24472	24275	6689
25°	21050	22176	21799	21389	21410	9660
35°	17086	18890	19836	23133	24614	10649
45°	12581	15828	21635	26194	26741	9701
55°	8376	13865	20148	17665	15702	7517
65°	4806	9606	9224	5128	4412	4755
75°	1936	4494	2963	2028	1924	2110
85°	410	1602	1509	1476	1493	457
90°	6	580	995	1137	1165	28
95°	11	339	793	930	957	8
105°	22	191	514	618	629	23
115°	33	109	317	388	399	34
125°	38	55	186	241	246	33
135°	33	33	88	148	153	25
145°	44	33	38	71	82	26
155°	44	44	33	33	33	13
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P829727

CATALOG NUMBER: OHBL-100SE-W-UNV-L930-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	25341.5	25341.5	25341.5	25341.5	25341.5
2.5°	25232.2	25341.5	25347.0	25500.1	25483.7
5°	25106.4	25297.8	25434.5	25658.6	25631.3
7.5°	24898.7	25199.4	25439.9	25686.0	25664.1
10°	24603.4	25013.5	25330.6	25532.9	25467.3
12.5°	24220.7	24762.0	25073.6	25117.4	24991.6
15°	23756.0	24423.0	24658.1	24472.2	24275.4
17.5°	23231.1	24012.9	24095.0	23690.4	23444.3
20°	22575.0	23466.2	23384.2	22826.5	22553.1
22.5°	21847.8	22864.8	22602.4	22017.3	21754.9
25°	21049.6	22175.9	21798.6	21388.6	21410.5
27.5°	20114.7	21394.0	21027.7	21213.6	21563.5
30°	19163.3	20573.9	20349.8	21432.3	22121.2
32.5°	18119.1	19732.0	19934.2	22072.0	23198.3
35°	17085.7	18890.0	19835.8	23132.7	24614.4
37.5°	15943.0	18037.0	19994.4	24357.4	25910.1
40°	14833.1	17206.0	20355.2	25456.3	26768.5
42.5°	13701.4	16462.4	20962.1	26107.0	27129.4
45°	12580.6	15828.2	21634.6	26194.5	26741.2
47.5°	11459.7	15292.4	22099.3	25500.1	25248.6
50°	10377.2	14816.7	22132.2	23832.5	22804.6
52.5°	9365.7	14379.3	21530.7	21175.4	19578.9
55°	8376.1	13865.4	20147.5	17665.3	15702.5
57.5°	7474.0	13154.6	18015.2	13892.7	11749.5
60°	6517.2	12192.4	15259.6	10164.0	8474.5
62.5°	5636.9	10995.0	12170.5	7074.9	6090.7
65°	4805.9	9606.3	9223.6	5128.4	4412.2
67.5°	3925.6	8168.3	6806.9	3739.7	3280.5
70°	3236.7	6834.3	5068.3	2908.7	2640.8
72.5°	2531.4	5565.8	3788.9	2361.9	2214.3
75°	1935.5	4494.2	2963.3	2028.4	1924.5
77.5°	1427.0	3553.8	2383.8	1793.3	1694.9
80°	1000.5	2799.3	1995.6	1602.0	1563.7
82.5°	672.5	2165.1	1700.4	1525.4	1530.9
85°	410.1	1602.0	1509.0	1476.2	1492.6
87.5°	196.8	1137.2	1295.8	1345.0	1361.4
90°	5.5	579.5	995.1	1137.2	1164.6
92.5°	0.0	442.9	874.8	1016.9	1044.3
95°	10.9	339.0	792.8	929.5	956.8
97.5°	10.9	278.8	710.8	852.9	869.3
100°	16.4	240.6	634.2	770.9	787.3
102.5°	16.4	213.2	568.6	688.9	699.8
105°	21.9	191.4	513.9	617.8	628.8



TEST NUMBER: P829727

CATALOG NUMBER: OHBL-100SE-W-UNV-L930-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	32.8	131.2	360.9	437.4	448.3
115°	32.8	109.3	317.1	388.2	399.1
117.5°	38.3	98.4	278.8	344.4	349.9
120°	38.3	82.0	240.6	306.2	311.6
122.5°	38.3	65.6	213.2	273.4	278.8
125°	38.3	54.7	185.9	240.6	246.0
127.5°	32.8	38.3	158.6	213.2	218.7
130°	32.8	32.8	131.2	185.9	196.8
132.5°	32.8	32.8	109.3	164.0	175.0
135°	32.8	32.8	87.5	147.6	153.1
137.5°	32.8	32.8	71.1	125.8	136.7
140°	32.8	32.8	54.7	109.3	114.8
142.5°	38.3	32.8	49.2	92.9	98.4
145°	43.7	32.8	38.3	71.1	82.0
147.5°	43.7	38.3	38.3	60.1	65.6
150°	43.7	43.7	32.8	43.7	54.7
152.5°	43.7	43.7	32.8	32.8	43.7
155°	43.7	43.7	32.8	32.8	32.8
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°	27.3	169.5	459.3	552.2	563.1
110°	27.3	147.6	404.6	492.1	503.0



(END OF REPORT)