

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: P830873

Luminaire Tested: **OHBL-90SE-W-UNV-L740-CD**

Issue Date: 5/3/2024



**Test Information**

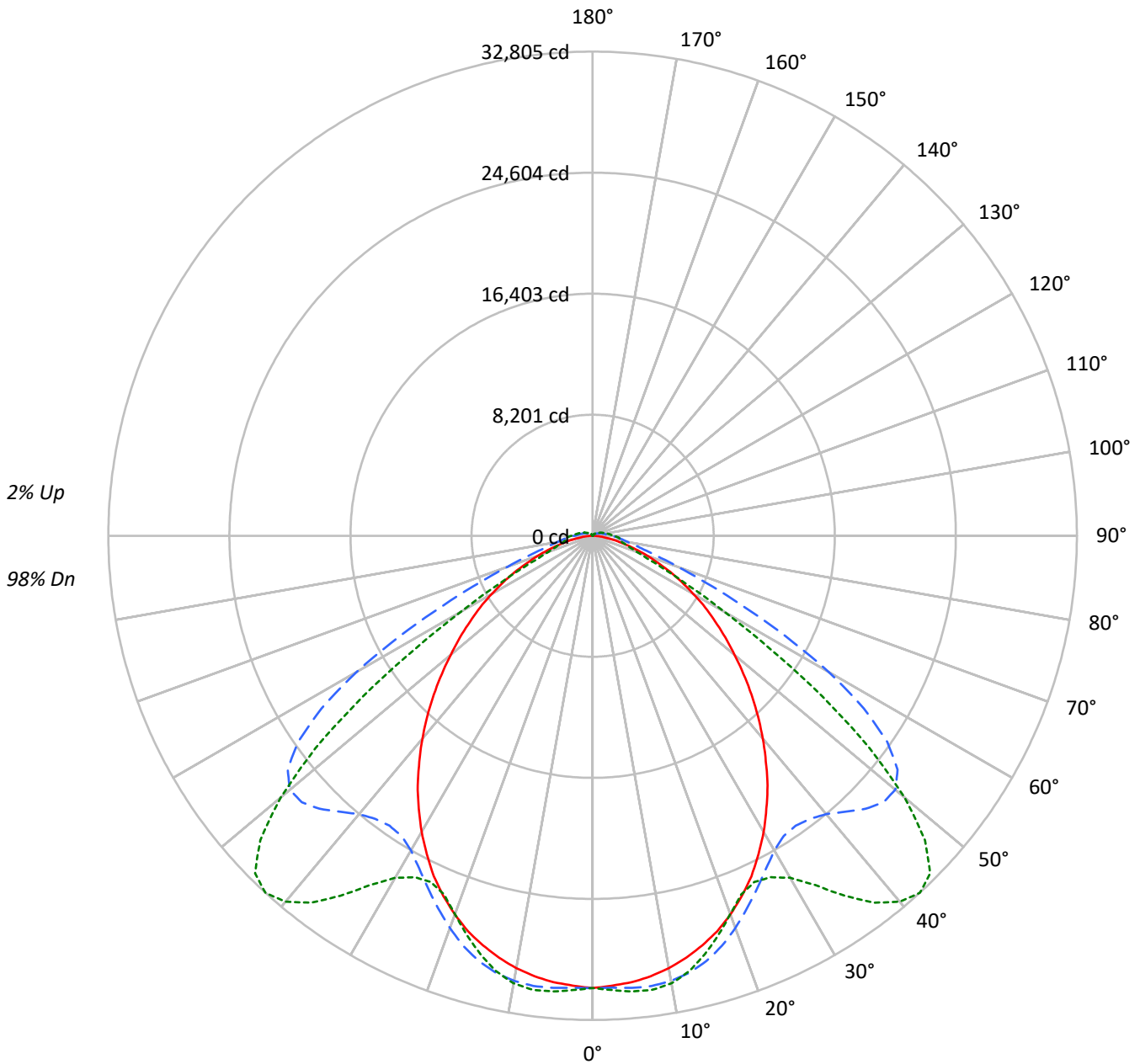
Test Method: LM-79-08  
Report Number: P830873  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-90SE-W-UNV-L740-CD  
Description: 90000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 4000K LEDS AND WIDE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 91750.0 lumens  
Efficiency: N/A  
Efficacy: 173.4 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): 529  
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: P830873  
CATALOG NUMBER: OHBL-90SE-W-UNV-L740-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P830873

CATALOG NUMBER: OHBL-90SE-W-UNV-L740-CD

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

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

	0°	45°	90°
0°	48461	48461	48461
5°	48009	48415	48807
10°	47407	48363	48658
15°	46482	47585	46896
20°	45216	45970	44400
25°	43520	44011	43306
30°	41265	42560	46368
35°	38692	43371	53963
40°	35708	47001	62005
45°	32586	53352	66189
50°	29331	59042	61101
55°	26272	59024	46237
60°	23157	49992	27931
65°	19868	34570	16657
70°	16142	22392	11770
75°	12280	16091	10567
80°	8814	14195	11290
85°	5982	15730	15910



TEST NUMBER: P830873

CATALOG NUMBER: OHBL-90SE-W-UNV-L740-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2928.3	3.2
10°-20°	8292.0	9.0
20°-30°	12133.9	13.2
30°-40°	15758.4	17.2
40°-50°	19243.0	21.0
50°-60°	16946.4	18.5
60°-70°	8830.9	9.6
70°-80°	3787.0	4.1
80°-90°	1818.7	2.0
90°-100°	854.4	0.9
100°-110°	531.1	0.6
110°-120°	314.0	0.3
120°-130°	170.7	0.2
130°-140°	85.7	0.1
140°-150°	41.2	0.0
150°-160°	14.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	23354.1	25.5
0°-40°	39112.5	42.6
0°-60°	75301.9	82.1
0°-90°	89738.5	97.8
90°-120°	1699.5	1.9
90°-150°	1997.1	2.2
90°-180°	2011.0	2.2
0°-180°	91750.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	30643	30643	30643	30643	30643	
5°	30358	30590	30755	31026	30993	###
15°	28726	29532	29816	29592	29354	8088
25°	25453	26815	26359	25863	25889	11681
35°	20660	22842	23985	27972	29764	12877
45°	15212	19139	26160	31674	32335	11730
55°	10128	16766	24362	21361	18987	9090
65°	5811	11616	11153	6201	5335	5749
75°	2340	5434	3583	2453	2327	2552
85°	496	1937	1825	1785	1805	553
90°	7	701	1203	1375	1408	34
95°	13	410	959	1124	1157	10
105°	26	231	622	747	760	28
115°	40	132	383	469	483	41
125°	46	66	225	291	298	39
135°	40	40	106	178	185	31
145°	53	40	46	86	99	31
155°	53	53	40	40	40	16
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P830873

CATALOG NUMBER: OHBL-90SE-W-UNV-L740-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	30642.8	30642.8	30642.8	30642.8	30642.8
2.5°	30510.6	30642.8	30649.4	30834.5	30814.7
5°	30358.5	30589.9	30755.2	31026.3	30993.2
7.5°	30107.3	30470.9	30761.8	31059.3	31032.9
10°	29750.3	30246.2	30629.6	30874.2	30794.9
12.5°	29287.5	29942.0	30318.9	30371.8	30219.7
15°	28725.6	29532.1	29816.4	29591.6	29353.6
17.5°	28090.9	29036.3	29135.5	28646.2	28348.7
20°	27297.6	28375.2	28276.0	27601.7	27271.1
22.5°	26418.3	27648.0	27330.6	26623.2	26305.9
25°	25453.0	26815.0	26358.8	25862.9	25889.4
27.5°	24322.5	25869.6	25426.6	25651.4	26074.5
30°	23172.2	24877.9	24606.8	25915.8	26748.8
32.5°	21909.5	23859.8	24104.4	26689.3	28051.2
35°	20659.9	22841.6	23985.4	27971.9	29763.5
37.5°	19278.2	21810.3	24177.1	29452.8	31330.4
40°	17936.1	20805.4	24613.4	30781.7	32368.3
42.5°	16567.6	19906.3	25347.3	31568.4	32804.7
45°	15212.3	19139.4	26160.4	31674.2	32335.3
47.5°	13857.0	18491.5	26722.4	30834.5	30530.4
50°	12548.0	17916.3	26762.1	28818.1	27575.2
52.5°	11325.0	17387.4	26034.8	25605.1	23674.6
55°	10128.3	16766.0	24362.2	21360.7	18987.3
57.5°	9037.5	15906.5	21783.8	16799.0	14207.4
60°	7880.5	14742.9	18451.8	12290.2	10247.3
62.5°	6816.1	13295.1	14716.5	8554.9	7364.9
65°	5811.2	11615.8	11153.1	6201.3	5335.2
67.5°	4746.8	9877.1	8230.9	4522.0	3966.7
70°	3913.8	8264.0	6128.6	3517.1	3193.2
72.5°	3061.0	6730.2	4581.5	2856.0	2677.5
75°	2340.4	5434.4	3583.3	2452.7	2327.1
77.5°	1725.5	4297.3	2882.5	2168.5	2049.5
80°	1209.8	3384.9	2413.1	1937.1	1890.8
82.5°	813.2	2618.0	2056.1	1844.5	1851.1
85°	495.8	1937.1	1824.7	1785.0	1804.9
87.5°	238.0	1375.1	1566.8	1626.4	1646.2
90°	6.6	700.8	1203.2	1375.1	1408.2
92.5°	0.0	535.5	1057.8	1229.7	1262.7
95°	13.2	409.9	958.6	1123.9	1157.0
97.5°	13.2	337.2	859.5	1031.3	1051.2
100°	19.8	290.9	766.9	932.2	952.0
102.5°	19.8	257.8	687.6	833.0	846.2
105°	26.4	231.4	621.5	747.1	760.3



TEST NUMBER: P830873

CATALOG NUMBER: OHBL-90SE-W-UNV-L740-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	39.7	158.7	436.3	528.9	542.1
115°	39.7	132.2	383.4	469.4	482.6
117.5°	46.3	119.0	337.2	416.5	423.1
120°	46.3	99.2	290.9	370.2	376.8
122.5°	46.3	79.3	257.8	330.6	337.2
125°	46.3	66.1	224.8	290.9	297.5
127.5°	39.7	46.3	191.7	257.8	264.4
130°	39.7	39.7	158.7	224.8	238.0
132.5°	39.7	39.7	132.2	198.3	211.6
135°	39.7	39.7	105.8	178.5	185.1
137.5°	39.7	39.7	85.9	152.1	165.3
140°	39.7	39.7	66.1	132.2	138.8
142.5°	46.3	39.7	59.5	112.4	119.0
145°	52.9	39.7	46.3	85.9	99.2
147.5°	52.9	46.3	46.3	72.7	79.3
150°	52.9	52.9	39.7	52.9	66.1
152.5°	52.9	52.9	39.7	39.7	52.9
155°	52.9	52.9	39.7	39.7	39.7
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°	33.1	204.9	555.3	667.7	681.0
110°	33.1	178.5	489.2	595.0	608.2



(END OF REPORT)