

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: P829645

Luminaire Tested: **OHB-9SE-NL-UNV-L940-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829645
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHB-9SE-NL-UNV-L940-CD
Description: 9000 LUMEN OHB SE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

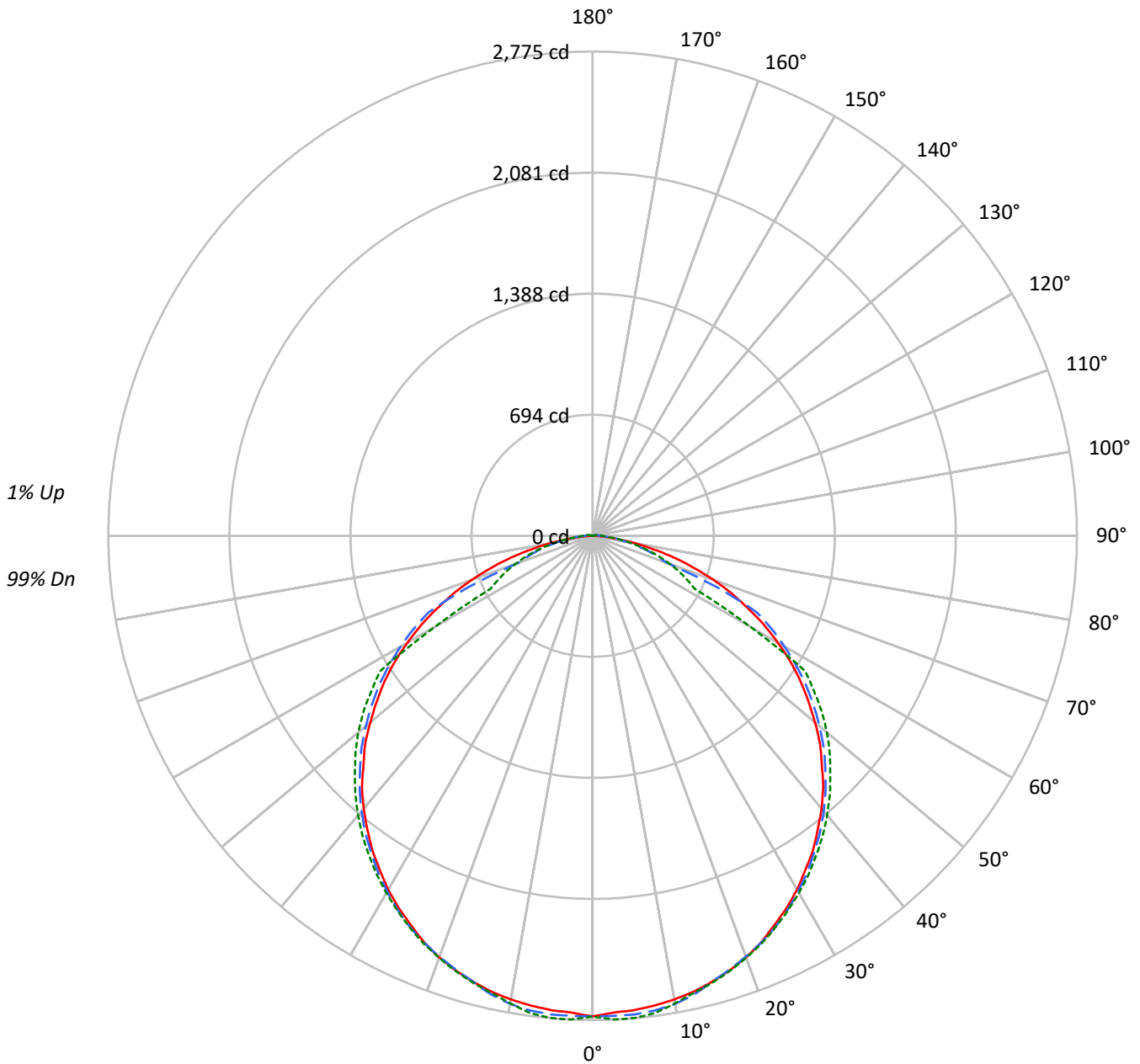
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7734.0 lumens
Efficiency: N/A
Efficacy: 143.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 0.88' x L: 1.93' x H: 0')
CIE Type: Direct

Input Watts (W): 54
Input Voltage (V): NR
Input Current (Ain): 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: P829645
CATALOG NUMBER: OHB-9SE-NL-UNV-L940-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	111	111	111	106	106	106	102	102	102				99																
1	109	105	100	97	106	102	99	95	98	95	92	94	91	89	90	88	86				84																
2	99	92	85	79	97	90	84	78	86	81	76	83	78	75	80	76	73				71																
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62				60																
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53				51																
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46				44																
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41				39																
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36				34																
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32				30																
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29				27																
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26				25																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17528	17528	17528
5°	17431	17588	17721
10°	17436	17601	17579
15°	17433	17430	17468
20°	17409	17383	17425
25°	17290	17378	17392
30°	17209	17298	17366
35°	17098	17192	17354
40°	16950	17112	17364
45°	16706	16959	17328
50°	16454	16790	17345
55°	16140	16558	17154
60°	15599	16153	13354
65°	14758	15616	8987
70°	13650	8290	8723
75°	11906	7879	8329
80°	9157	7226	7633
85°	4621	7301	7483



TEST NUMBER: P829645

CATALOG NUMBER: OHB-9SE-NL-UNV-L940-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.7	3.4
10°-20°	749.3	9.7
20°-30°	1140.2	14.7
30°-40°	1386.3	17.9
40°-50°	1457.6	18.8
50°-60°	1331.0	17.2
60°-70°	853.2	11.0
70°-80°	403.1	5.2
80°-90°	111.8	1.4
90°-100°	29.6	0.4
100°-110°	8.1	0.1
110°-120°	2.2	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2151.2	27.8
0°-40°	3537.5	45.7
0°-60°	6326.0	81.8
0°-90°	7694.1	99.5
90°-120°	40.0	0.5
90°-150°	40.0	0.5
90°-180°	40.0	0.5
0°-180°	7734.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2755	2755	2755	2755	2755	
5°	2729	2740	2754	2769	2774	260
15°	2646	2666	2646	2650	2652	747
25°	2463	2466	2475	2479	2477	1136
35°	2201	2188	2213	2240	2234	1376
45°	1856	1853	1885	1929	1926	1435
55°	1455	1444	1493	1542	1546	1298
65°	980	980	1037	595	597	972
75°	484	494	320	337	339	511
85°	63	80	100	108	102	94
90°	0	27	44	53	52	3
95°	1	14	32	43	43	1
105°	2	5	8	8	7	2
115°	2	3	5	3	0	2
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P829645

CATALOG NUMBER: OHB-9SE-NL-UNV-L940-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2754.7	2754.7	2754.7	2754.7	2754.7
2.5°	2735.3	2744.5	2754.7	2767.7	2774.9
5°	2729.0	2739.7	2753.7	2768.7	2774.5
7.5°	2715.5	2730.4	2744.0	2754.7	2758.0
10°	2698.6	2716.5	2724.2	2723.2	2720.8
12.5°	2675.8	2694.7	2692.3	2681.2	2683.1
15°	2646.4	2666.2	2645.9	2649.7	2651.7
17.5°	2611.6	2630.9	2607.2	2614.9	2615.5
20°	2571.0	2585.5	2567.1	2573.4	2573.4
22.5°	2522.2	2532.3	2524.6	2528.9	2529.9
25°	2462.7	2466.5	2475.2	2479.1	2477.2
27.5°	2405.7	2400.8	2417.8	2426.9	2422.1
30°	2342.3	2334.6	2354.4	2369.4	2363.6
32.5°	2269.8	2265.0	2287.7	2305.6	2302.2
35°	2201.2	2188.2	2213.3	2240.4	2234.1
37.5°	2120.0	2112.3	2140.8	2169.3	2165.9
40°	2040.7	2027.7	2060.1	2093.9	2090.5
42.5°	1955.7	1940.2	1975.5	2016.1	2012.2
45°	1856.5	1853.2	1884.6	1929.1	1925.7
47.5°	1768.6	1751.7	1795.6	1838.7	1842.6
50°	1662.2	1656.0	1696.1	1748.3	1752.2
52.5°	1558.4	1554.0	1596.0	1648.7	1655.5
55°	1454.9	1443.8	1492.6	1542.4	1546.3
57.5°	1344.2	1332.6	1382.4	1436.6	1444.7
60°	1225.8	1214.7	1269.3	1319.6	1049.4
62.5°	1107.4	1099.6	1156.7	819.3	660.3
65°	980.2	980.2	1037.2	595.0	596.9
67.5°	861.4	853.6	773.4	534.6	534.6
70°	733.7	736.7	445.6	468.4	468.9
72.5°	605.6	616.3	384.8	403.1	404.1
75°	484.3	493.5	320.5	337.4	338.8
77.5°	355.8	273.6	257.6	270.7	271.2
80°	249.9	172.6	197.2	209.8	208.3
82.5°	145.9	120.8	144.5	153.7	153.2
85°	63.3	80.2	100.0	108.3	102.5
87.5°	20.3	49.8	62.3	67.2	66.7
90°	0.0	27.1	44.5	52.7	51.7
92.5°	0.0	21.2	38.7	48.4	48.8
95°	1.4	14.0	31.9	43.0	43.0
97.5°	1.0	10.1	22.7	33.8	34.8
100°	1.0	8.2	15.0	24.2	24.7
102.5°	2.4	6.8	9.2	15.5	16.0
105°	2.4	5.3	7.7	7.7	7.3



TEST NUMBER: P829645

CATALOG NUMBER: OHB-9SE-NL-UNV-L940-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.9	3.9	5.3	3.9	0.5
115°	2.4	3.4	4.8	3.4	0.5
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
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°	2.4	4.8	6.8	4.3	1.4
110°	2.9	4.3	5.8	3.9	0.5



(END OF REPORT)