

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: P830903

Luminaire Tested: **OHBL-9HE-MCL-UNV-L930-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830903
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-9HE-MCL-UNV-L930-CD
Description: 9000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 3000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

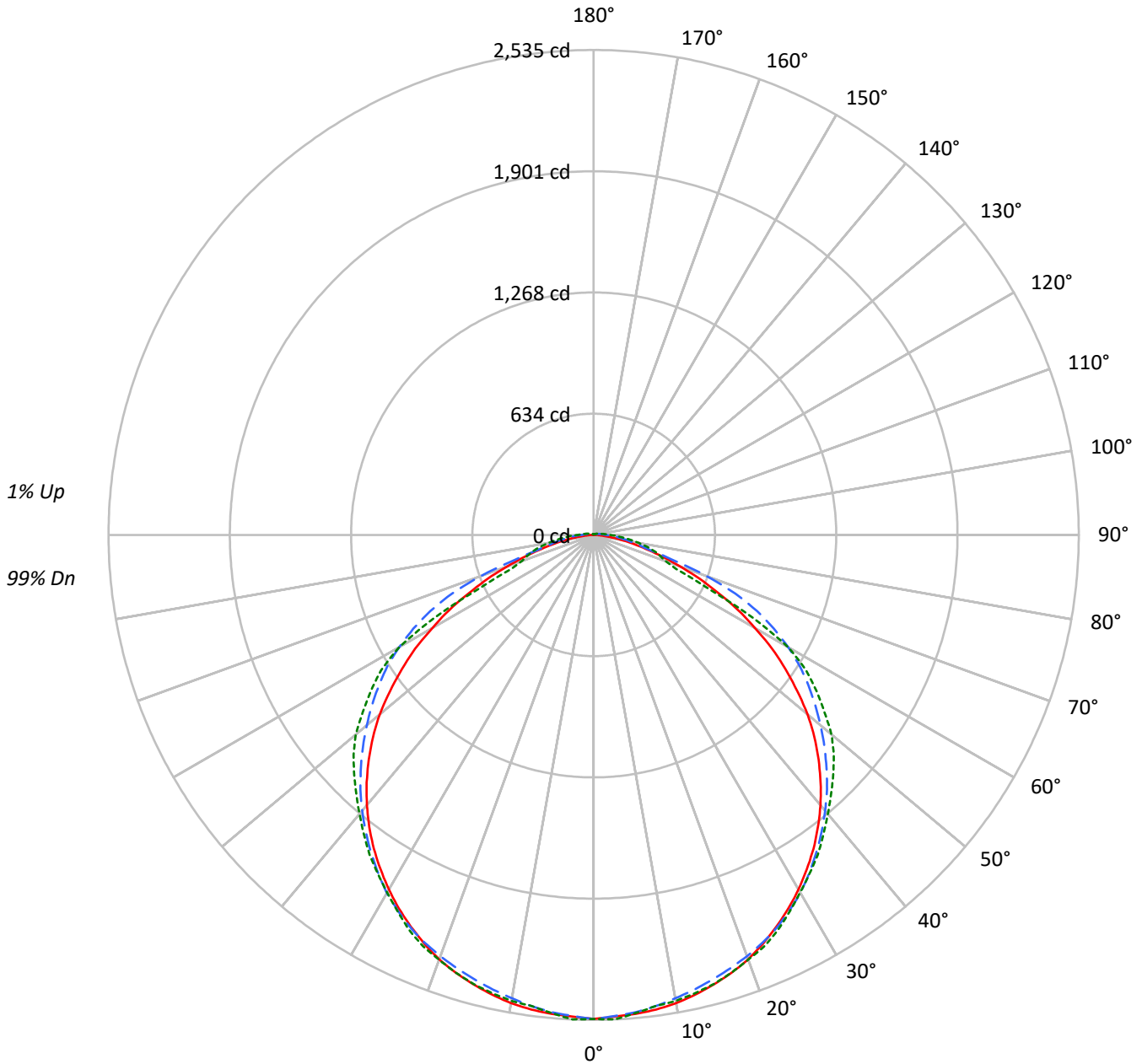
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7151.0 lumens
Efficiency: N/A
Efficacy: 137.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 52
Input Voltage (V): NR
Input Current (A_{in}): 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: P830903
CATALOG NUMBER: OHBL-9HE-MCL-UNV-L930-CD

Luminous Intensity Polar Plot





TEST NUMBER: P830903

CATALOG NUMBER: OHBL-9HE-MCL-UNV-L930-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	106	106	106	101	101	101				99																
1	109	104	100	96	106	102	98	95	97	94	91	93	91	88	90	87	86				83																
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72				70																
3	91	80	72	66	88	79	71	65	75	69	64	72	67	63	70	65	61				59																
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	62	57	53				51																
5	76	64	55	48	74	62	54	48	60	53	47	58	52	46	56	50	46				44																
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40				38																
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36				34																
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	42	36	32				30																
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29				27																
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26				24																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4321	4321	4321
5°	4293	4257	4265
10°	4277	4190	4215
15°	4250	4140	4184
20°	4223	4108	4144
25°	4172	4075	4104
30°	4117	4025	4024
35°	4050	3947	3978
40°	3964	3865	3916
45°	3845	3771	3886
50°	3683	3665	3851
55°	3426	3559	3702
60°	3090	3406	3417
65°	2650	3126	2161
70°	2135	2435	1562
75°	1600	1441	1579
80°	1114	1192	1497
85°	635	1083	1385



TEST NUMBER: P830903

CATALOG NUMBER: OHBL-9HE-MCL-UNV-L930-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.6	3.3
10°-20°	684.1	9.6
20°-30°	1044.8	14.6
30°-40°	1267.7	17.7
40°-50°	1328.7	18.6
50°-60°	1204.0	16.8
60°-70°	807.2	11.3
70°-80°	362.5	5.1
80°-90°	131.5	1.8
90°-100°	39.6	0.6
100°-110°	18.7	0.3
110°-120°	9.4	0.1
120°-130°	5.2	0.1
130°-140°	3.6	0.0
140°-150°	2.4	0.0
150°-160°	1.8	0.0
160°-170°	1.1	0.0
170°-180°	0.4	0.0
0°-30°	1967.4	27.5
0°-40°	3235.1	45.2
0°-60°	5767.8	80.7
0°-90°	7069.0	98.9
90°-120°	67.6	0.9
90°-150°	78.8	1.1
90°-180°	82.0	1.1
0°-180°	7151.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2530	2530	2530	2530	2530	
5°	2514	2522	2505	2512	2509	239
15°	2432	2422	2405	2426	2429	687
25°	2259	2249	2265	2286	2279	1041
35°	2002	2007	2028	2049	2041	1252
45°	1662	1689	1720	1764	1770	1280
55°	1223	1282	1369	1424	1421	1092
65°	718	830	942	795	649	715
75°	282	410	301	308	328	309
85°	49	93	120	144	152	59
90°	0	31	62	78	81	3
95°	0	19	42	52	53	1
105°	2	8	21	25	26	2
115°	3	4	11	14	14	3
125°	3	3	7	8	8	3
135°	3	4	4	6	6	3
145°	3	4	4	4	4	2
155°	4	4	4	4	4	2
165°	4	4	4	4	4	1
175°	4	4	4	3	3	0
180°	4	4	4	4	4	



TEST NUMBER: P830903

CATALOG NUMBER: OHBL-9HE-MCL-UNV-L930-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2530.0	2530.0	2530.0	2530.0	2530.0
2.5°	2519.8	2530.4	2517.2	2531.5	2535.2
5°	2513.6	2522.3	2504.8	2512.5	2509.2
7.5°	2502.2	2505.2	2484.3	2490.5	2483.9
10°	2485.4	2483.9	2459.4	2471.5	2473.0
12.5°	2460.5	2456.1	2434.2	2452.5	2452.8
15°	2432.0	2422.5	2405.3	2426.5	2429.4
17.5°	2399.1	2386.6	2375.3	2402.7	2398.3
20°	2360.7	2346.0	2343.8	2373.8	2362.8
22.5°	2313.1	2301.8	2306.9	2335.4	2328.5
25°	2259.3	2249.4	2265.2	2286.0	2279.4
27.5°	2202.6	2196.8	2214.7	2230.8	2218.0
30°	2140.4	2137.1	2160.9	2174.1	2158.0
32.5°	2072.8	2073.8	2096.5	2114.5	2099.5
35°	2002.5	2007.3	2027.8	2049.3	2041.3
37.5°	1925.3	1935.9	1956.4	1980.9	1972.5
40°	1843.7	1859.1	1881.8	1911.4	1903.7
42.5°	1755.6	1775.0	1804.2	1837.2	1836.4
45°	1661.9	1689.0	1720.5	1764.4	1769.9
47.5°	1564.6	1595.0	1634.9	1693.4	1701.8
50°	1458.9	1496.9	1546.7	1616.9	1622.1
52.5°	1341.1	1393.1	1458.9	1526.2	1520.0
55°	1222.9	1281.8	1369.3	1424.1	1420.9
57.5°	1105.2	1171.4	1277.5	1316.6	1316.2
60°	973.5	1057.2	1173.2	1202.8	1173.6
62.5°	851.6	941.6	1062.0	1040.4	940.2
65°	717.7	830.1	942.4	795.3	649.3
67.5°	598.9	715.9	800.4	544.7	466.4
70°	479.2	608.4	624.1	404.2	398.7
72.5°	373.1	510.7	430.6	346.1	363.6
75°	282.4	409.7	301.4	308.4	328.5
77.5°	206.0	314.6	234.5	270.3	286.8
80°	141.6	222.8	191.3	227.2	238.5
82.5°	88.9	147.1	153.3	182.9	194.6
85°	48.7	93.3	119.6	144.5	151.5
87.5°	20.1	56.3	91.5	111.6	117.4
90°	0.4	31.1	61.8	77.6	81.2
92.5°	0.4	23.8	50.5	62.6	65.1
95°	0.4	19.4	42.4	51.6	53.0
97.5°	0.7	15.4	35.5	42.8	44.3
100°	1.1	12.8	29.6	35.9	36.9
102.5°	1.5	10.2	24.9	30.0	31.1
105°	1.5	8.4	20.9	25.2	26.3



TEST NUMBER: P830903

CATALOG NUMBER: OHBL-9HE-MCL-UNV-L930-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.6	5.1	12.4	15.7	16.5
115°	2.9	4.4	10.6	13.5	14.3
117.5°	2.9	3.7	9.1	11.3	12.1
120°	2.9	3.3	8.0	9.9	10.2
122.5°	2.9	2.9	7.0	8.8	9.1
125°	2.6	2.9	6.6	7.7	8.0
127.5°	2.9	2.9	5.9	7.0	7.3
130°	2.9	3.3	5.1	6.6	6.6
132.5°	3.3	3.7	4.8	6.2	6.2
135°	3.3	3.7	4.0	5.9	6.2
137.5°	3.7	3.7	3.7	5.5	5.9
140°	3.7	3.7	3.3	4.8	5.1
142.5°	3.3	3.7	3.3	4.4	4.8
145°	3.3	3.7	3.7	4.0	4.4
147.5°	3.7	3.7	3.7	3.7	4.0
150°	3.7	3.7	3.7	3.7	3.7
152.5°	3.7	3.7	3.7	3.7	3.7
155°	3.7	4.0	4.0	4.0	3.7
157.5°	3.7	4.0	4.0	4.0	4.0
160°	3.7	4.0	4.0	4.0	4.0
162.5°	4.0	4.0	4.0	4.0	4.0
165°	4.0	4.0	4.0	4.0	4.0
167.5°	4.0	4.4	4.0	4.0	4.0
170°	4.0	4.0	4.0	3.7	3.7
172.5°	4.0	4.0	4.0	3.7	3.7
175°	4.0	4.0	3.7	3.3	3.3
177.5°	4.4	4.0	3.7	3.3	2.9
180°	3.7	3.7	3.7	3.7	3.7



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	1.8	7.0	17.9	21.6	22.3
110°	2.2	5.9	15.0	18.3	19.0



(END OF REPORT)