

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: P830905

Luminaire Tested: **OHBL-9HE-MCL-UNV-L940-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830905
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-L940-CD
Description: 9000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

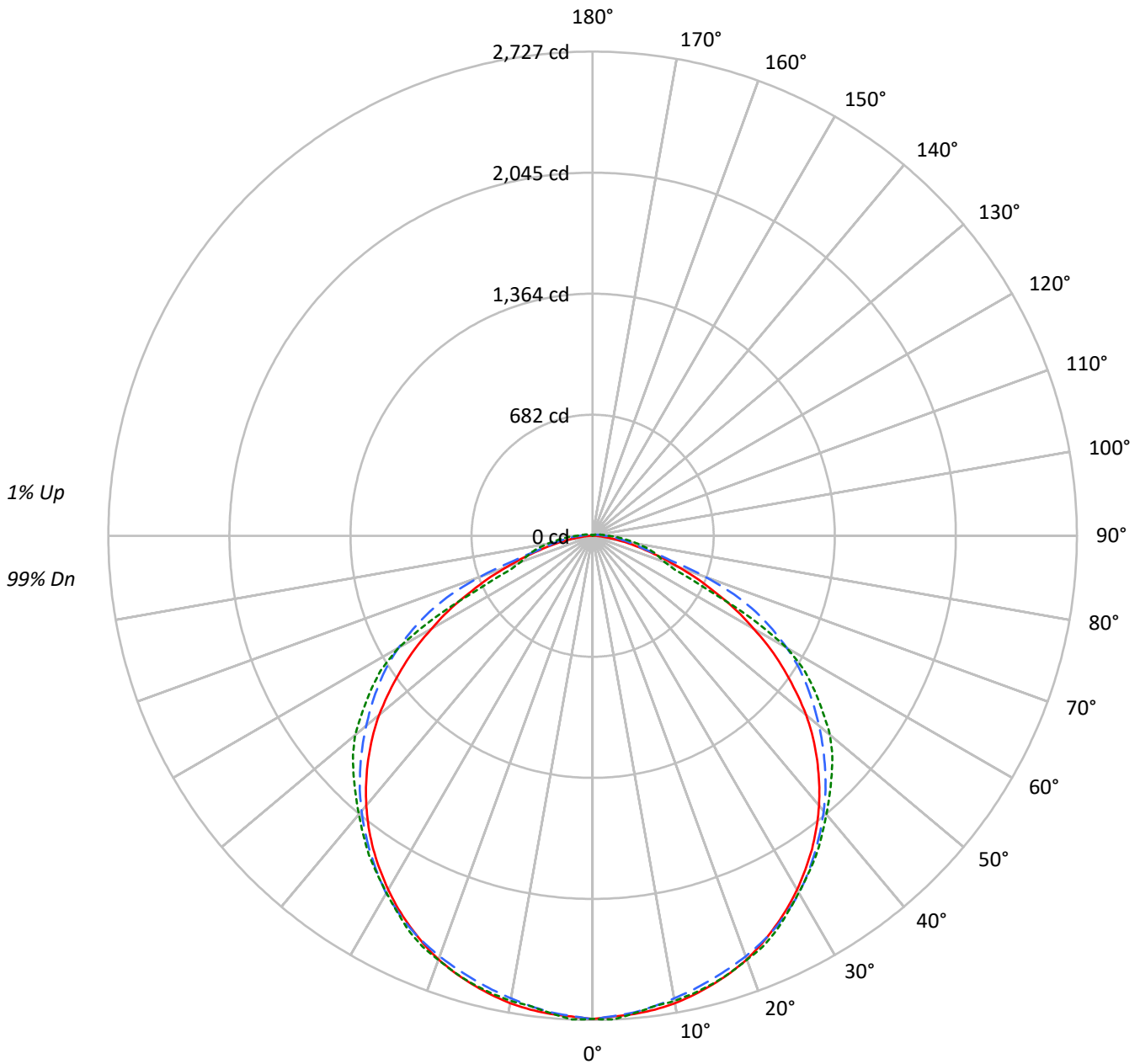
Lumens per Lamp: N/A
Luminaire Lumens: 7691.9 lumens
Efficiency: N/A
Efficacy: 147.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 52
Input Voltage (V): NR
Input Current (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

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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	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°	4648	4648	4648
5°	4618	4579	4587
10°	4601	4507	4534
15°	4572	4453	4500
20°	4542	4418	4457
25°	4488	4383	4415
30°	4428	4330	4328
35°	4357	4245	4279
40°	4264	4158	4212
45°	4136	4057	4180
50°	3962	3942	4142
55°	3685	3829	3982
60°	3323	3664	3675
65°	2851	3362	2324
70°	2296	2619	1680
75°	1722	1550	1698
80°	1198	1283	1610
85°	682	1165	1490



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.6	3.3
10°-20°	735.8	9.6
20°-30°	1123.8	14.6
30°-40°	1363.6	17.7
40°-50°	1429.2	18.6
50°-60°	1295.1	16.8
60°-70°	868.3	11.3
70°-80°	389.9	5.1
80°-90°	141.5	1.8
90°-100°	42.6	0.6
100°-110°	20.1	0.3
110°-120°	10.1	0.1
120°-130°	5.5	0.1
130°-140°	3.8	0.0
140°-150°	2.5	0.0
150°-160°	1.9	0.0
160°-170°	1.2	0.0
170°-180°	0.4	0.0
0°-30°	2116.3	27.5
0°-40°	3479.9	45.2
0°-60°	6204.1	80.7
0°-90°	7603.8	98.9
90°-120°	72.8	0.9
90°-150°	84.7	1.1
90°-180°	88.0	1.1
0°-180°	7691.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2721	2721	2721	2721	2721	
5°	2704	2713	2694	2702	2699	257
15°	2616	2606	2587	2610	2613	739
25°	2430	2420	2436	2459	2452	1120
35°	2154	2159	2181	2204	2196	1346
45°	1788	1817	1851	1898	1904	1377
55°	1316	1379	1473	1532	1528	1174
65°	772	893	1014	856	698	769
75°	304	441	324	332	353	332
85°	52	100	129	155	163	64
90°	0	33	66	83	87	3
95°	0	21	46	56	57	1
105°	2	9	22	27	28	2
115°	3	5	11	15	15	3
125°	3	3	7	8	9	3
135°	4	4	4	6	7	3
145°	4	4	4	4	5	2
155°	4	4	4	4	4	2
165°	4	4	4	4	4	1
175°	4	4	4	4	4	0
180°	4	4	4	4	4	



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CATALOG NUMBER: OHBL-9HE-MCL-UNV-L940-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2721.4	2721.4	2721.4	2721.4	2721.4
2.5°	2710.4	2721.8	2707.7	2723.0	2726.9
5°	2703.7	2713.2	2694.3	2702.5	2699.0
7.5°	2691.5	2694.7	2672.2	2678.9	2671.9
10°	2673.4	2671.9	2645.5	2658.5	2660.1
12.5°	2646.7	2641.9	2618.3	2638.0	2638.4
15°	2616.0	2605.7	2587.3	2610.1	2613.2
17.5°	2580.6	2567.2	2555.0	2584.5	2579.8
20°	2539.2	2523.5	2521.1	2553.4	2541.6
22.5°	2488.1	2475.9	2481.4	2512.1	2504.6
25°	2430.2	2419.6	2436.5	2459.0	2451.9
27.5°	2369.3	2363.0	2382.2	2399.6	2385.8
30°	2302.4	2298.8	2324.4	2338.6	2321.2
32.5°	2229.6	2230.7	2255.1	2274.4	2258.3
35°	2154.0	2159.1	2181.2	2204.4	2195.7
37.5°	2071.0	2082.4	2104.4	2130.8	2121.7
40°	1983.2	1999.8	2024.2	2056.0	2047.8
42.5°	1888.4	1909.3	1940.7	1976.1	1975.4
45°	1787.7	1816.8	1850.6	1897.8	1903.7
47.5°	1683.0	1715.7	1758.5	1821.5	1830.6
50°	1569.3	1610.2	1663.7	1739.3	1744.8
52.5°	1442.6	1498.4	1569.3	1641.7	1635.0
55°	1315.5	1378.8	1472.9	1531.9	1528.3
57.5°	1188.8	1260.0	1374.1	1416.2	1415.8
60°	1047.1	1137.2	1261.9	1293.8	1262.3
62.5°	916.1	1012.9	1142.3	1119.1	1011.3
65°	772.0	892.8	1013.7	855.5	698.5
67.5°	644.2	770.1	861.0	585.9	501.7
70°	515.5	654.4	671.3	434.8	428.9
72.5°	401.4	549.3	463.1	372.2	391.1
75°	303.8	440.7	324.2	331.7	353.4
77.5°	221.5	338.4	252.2	290.8	308.5
80°	152.3	239.6	205.8	244.4	256.6
82.5°	95.6	158.2	164.9	196.7	209.3
85°	52.3	100.3	128.7	155.4	162.9
87.5°	21.6	60.6	98.4	120.0	126.3
90°	0.4	33.4	66.5	83.4	87.4
92.5°	0.4	25.6	54.3	67.3	70.0
95°	0.4	20.9	45.6	55.5	57.1
97.5°	0.8	16.5	38.2	46.0	47.6
100°	1.2	13.8	31.9	38.6	39.7
102.5°	1.6	11.0	26.8	32.3	33.4
105°	1.6	9.1	22.4	27.2	28.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.8	5.5	13.4	16.9	17.7
115°	3.1	4.7	11.4	14.6	15.3
117.5°	3.1	3.9	9.8	12.2	13.0
120°	3.1	3.5	8.7	10.6	11.0
122.5°	3.1	3.1	7.5	9.4	9.8
125°	2.8	3.1	7.1	8.3	8.7
127.5°	3.1	3.1	6.3	7.5	7.9
130°	3.1	3.5	5.5	7.1	7.1
132.5°	3.5	3.9	5.1	6.7	6.7
135°	3.5	3.9	4.3	6.3	6.7
137.5°	3.9	3.9	3.9	5.9	6.3
140°	3.9	3.9	3.5	5.1	5.5
142.5°	3.5	3.9	3.5	4.7	5.1
145°	3.5	3.9	3.9	4.3	4.7
147.5°	3.9	3.9	3.9	3.9	4.3
150°	3.9	3.9	3.9	3.9	3.9
152.5°	3.9	3.9	3.9	3.9	3.9
155°	3.9	4.3	4.3	4.3	3.9
157.5°	3.9	4.3	4.3	4.3	4.3
160°	3.9	4.3	4.3	4.3	4.3
162.5°	4.3	4.3	4.3	4.3	4.3
165°	4.3	4.3	4.3	4.3	4.3
167.5°	4.3	4.7	4.3	4.3	4.3
170°	4.3	4.3	4.3	3.9	3.9
172.5°	4.3	4.3	4.3	3.9	3.9
175°	4.3	4.3	3.9	3.5	3.5
177.5°	4.7	4.3	3.9	3.5	3.1
180°	3.9	3.9	3.9	3.9	3.9



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	2.0	7.5	19.3	23.2	24.0
110°	2.4	6.3	16.1	19.7	20.5



(END OF REPORT)