

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: P830929

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830929
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-9HE-N-UNV-L940-CD
Description: 9000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

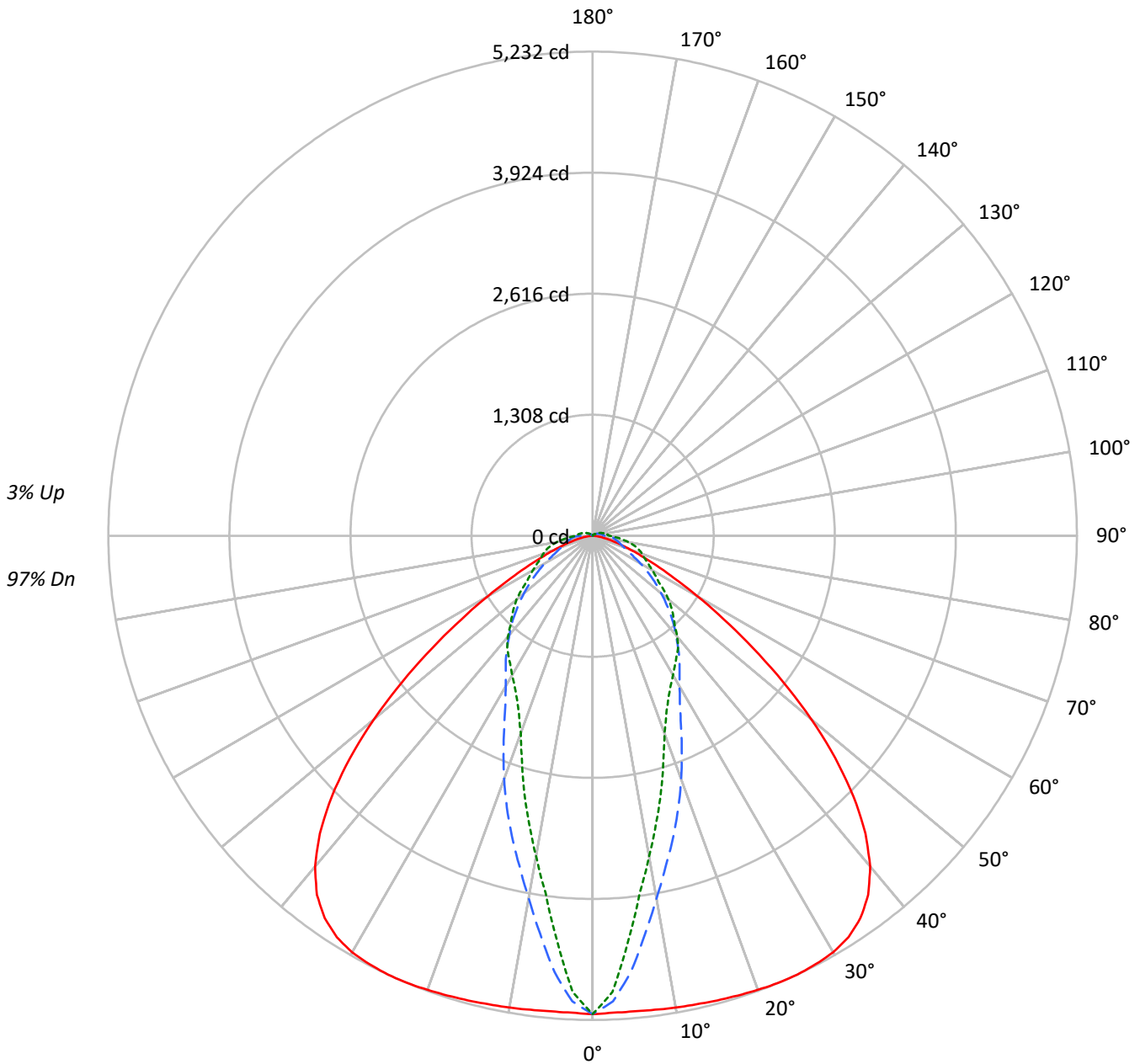
Lumens per Lamp: N/A
Luminaire Lumens: 7629.0 lumens
Efficiency: N/A
Efficacy: 146.7 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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

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Luminous Intensity Polar Plot





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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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	97
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	85	88	86	85	82
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	79	76	73	71
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	72	67	64	62
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	65	60	56	54
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	59	54	50	48
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	55	49	45	43
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	50	45	41	39
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	47	41	37	35
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	44	38	34	32
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	41	35	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8829	8829	8829
5°	8811	8040	7475
10°	8910	6772	5994
15°	9084	5792	4920
20°	9339	4897	3979
25°	9662	4054	3487
30°	9996	3492	3239
35°	10204	3183	3086
40°	10030	2875	2928
45°	9227	2598	2710
50°	7785	2295	2544
55°	5915	2010	2264
60°	4145	1724	2167
65°	2788	1485	2122
70°	1904	1394	2226
75°	1321	1437	2378
80°	910	1591	2448
85°	532	1991	2568



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	435.1	5.7
10°-20°	1023.6	13.4
20°-30°	1283.1	16.8
30°-40°	1361.5	17.8
40°-50°	1231.0	16.1
50°-60°	892.6	11.7
60°-70°	560.1	7.3
70°-80°	370.7	4.9
80°-90°	213.5	2.8
90°-100°	103.5	1.4
100°-110°	71.4	0.9
110°-120°	44.1	0.6
120°-130°	21.3	0.3
130°-140°	9.8	0.1
140°-150°	5.4	0.1
150°-160°	2.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2741.8	35.9
0°-40°	4103.3	53.8
0°-60°	6226.9	81.6
0°-90°	7371.2	96.6
90°-120°	218.9	2.9
90°-150°	255.4	3.3
90°-180°	258.0	3.4
0°-180°	7629.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5169	5169	5169	5169	5169	
5°	5159	5026	4731	4512	4398	493
15°	5198	4237	3365	2993	2857	1474
25°	5232	3276	2253	2000	1936	2417
35°	5045	2178	1635	1584	1584	3136
45°	3988	1380	1185	1214	1234	3038
55°	2112	855	773	839	869	1908
65°	755	496	448	574	638	786
75°	233	267	301	467	495	260
85°	41	111	220	306	281	49
90°	0	46	127	180	181	3
95°	2	32	112	152	159	2
105°	4	22	82	108	111	4
115°	5	15	55	69	70	5
125°	6	8	28	35	35	5
135°	5	6	12	19	19	4
145°	6	6	7	11	11	4
155°	6	7	8	8	7	2
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5169.1	5169.1	5169.1	5169.1	5169.1
2.5°	5158.2	5128.7	5036.7	4980.6	4933.4
5°	5158.7	5026.4	4731.2	4511.8	4398.1
7.5°	5166.1	4871.9	4340.1	4019.8	3894.9
10°	5177.4	4680.5	3975.1	3633.6	3517.0
12.5°	5185.8	4465.1	3653.8	3303.0	3175.1
15°	5198.1	4236.8	3365.0	2992.6	2856.8
17.5°	5209.4	4021.8	3079.7	2690.5	2539.5
20°	5220.7	3790.1	2794.3	2393.4	2268.9
22.5°	5231.5	3545.6	2515.9	2162.7	2077.6
25°	5232.5	3276.0	2253.2	1999.8	1936.4
27.5°	5219.7	2996.5	2040.2	1863.6	1824.2
30°	5197.6	2725.5	1874.9	1765.2	1737.1
32.5°	5142.5	2449.0	1747.0	1670.2	1654.0
35°	5045.1	2177.9	1635.3	1584.1	1583.6
37.5°	4891.6	1937.3	1514.3	1505.4	1516.2
40°	4664.8	1726.8	1399.6	1423.2	1423.2
42.5°	4362.2	1543.8	1295.8	1319.9	1313.5
45°	3988.3	1379.5	1185.1	1213.7	1234.3
47.5°	3554.9	1234.8	1072.0	1127.1	1155.6
50°	3083.6	1097.1	968.7	1039.0	1071.5
52.5°	2589.7	969.7	867.8	948.5	974.6
55°	2111.5	855.0	773.4	838.8	868.8
57.5°	1678.6	745.8	680.9	742.9	804.9
60°	1306.2	651.9	593.8	682.4	744.3
62.5°	997.7	568.2	512.1	625.8	687.8
65°	755.2	495.9	447.7	573.6	637.6
67.5°	569.2	433.4	397.5	535.7	598.2
70°	427.5	372.9	357.2	512.1	568.2
72.5°	315.8	317.3	325.2	491.5	534.3
75°	233.2	267.1	300.6	466.9	494.9
77.5°	166.8	221.4	278.5	437.4	447.2
80°	115.6	180.6	255.3	398.5	390.1
82.5°	72.3	144.6	234.7	355.7	332.6
85°	40.8	110.7	219.9	306.0	280.9
87.5°	18.2	82.6	192.4	238.6	222.9
90°	0.0	46.2	127.4	179.6	181.0
92.5°	1.0	38.4	117.6	164.3	169.2
95°	2.0	32.5	112.2	152.5	159.4
97.5°	2.5	28.5	105.3	141.7	147.6
100°	3.0	25.6	96.9	130.4	135.3
102.5°	3.4	23.6	89.0	118.6	122.5
105°	3.9	21.6	81.7	108.2	111.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	4.9	16.7	61.5	77.7	80.2
115°	5.4	15.3	55.1	68.9	70.4
117.5°	5.9	13.3	48.2	60.5	61.0
120°	5.9	11.8	41.3	51.7	51.7
122.5°	5.9	9.8	34.4	42.8	42.3
125°	5.9	7.9	28.0	35.4	34.9
127.5°	5.4	6.4	22.6	29.5	29.0
130°	5.4	6.4	18.2	25.1	25.1
132.5°	4.9	5.9	14.8	21.6	21.6
135°	4.9	5.9	12.3	19.2	19.2
137.5°	4.9	6.4	10.3	16.7	16.7
140°	4.9	5.9	8.9	14.8	14.8
142.5°	5.4	5.9	7.9	12.8	12.8
145°	5.9	6.4	7.4	11.3	10.8
147.5°	5.9	6.9	7.4	9.8	9.3
150°	5.9	7.4	7.4	8.9	8.4
152.5°	5.9	7.4	7.4	8.4	7.9
155°	5.9	7.4	7.9	8.4	7.4
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°	3.9	20.2	74.8	96.9	100.4
110°	4.4	18.2	68.4	86.6	90.0



(END OF REPORT)