

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: P830923

Luminaire Tested: **OHBL-9HE-N-UNV-L830-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830923
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-L830-CD
Description: 9000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

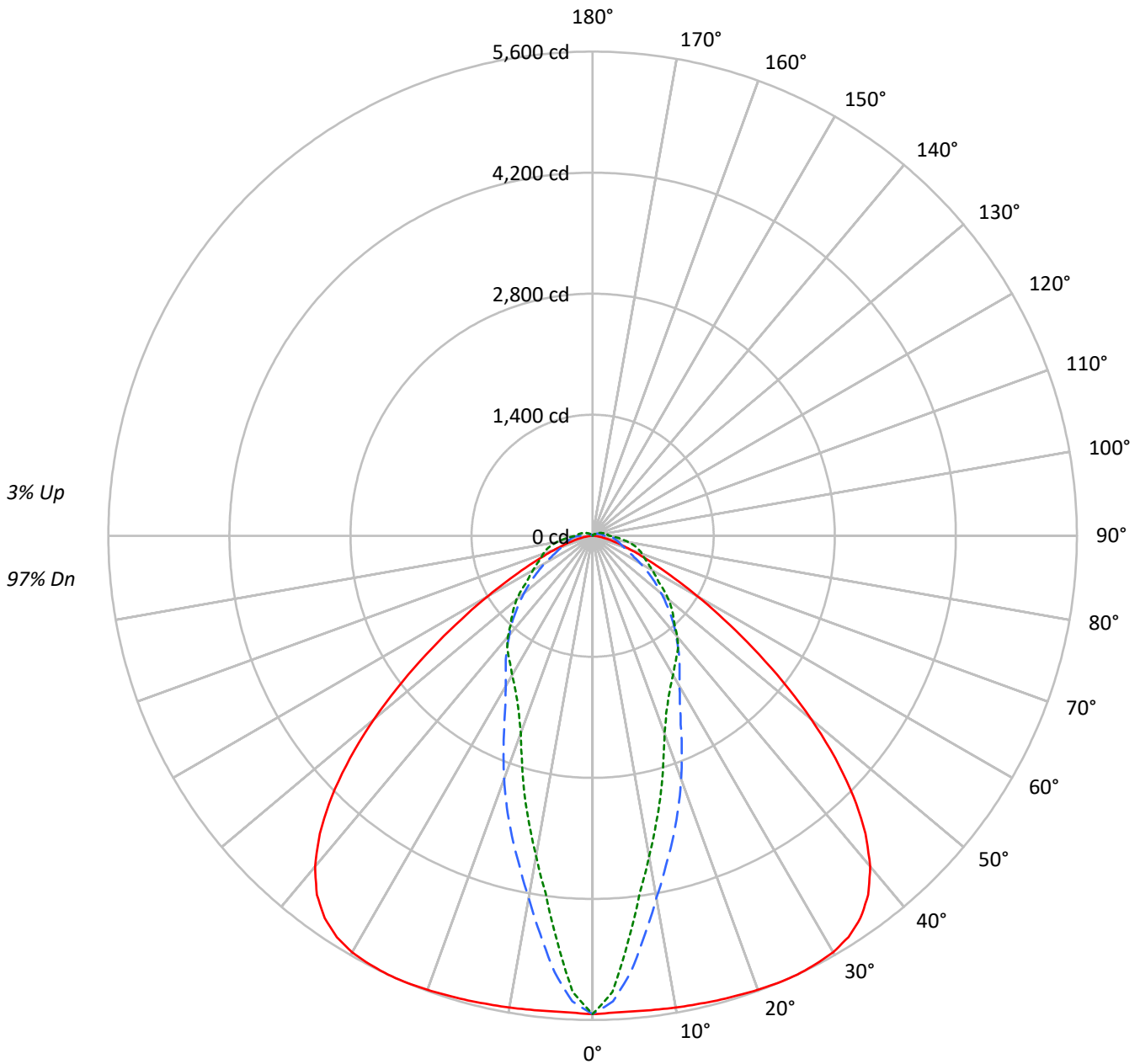
Lumens per Lamp: N/A
Luminaire Lumens: 8165.0 lumens
Efficiency: N/A
Efficacy: 157.0 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9449	9449	9449
5°	9430	8605	8001
10°	9536	7248	6415
15°	9722	6199	5265
20°	9995	5242	4259
25°	10341	4338	3732
30°	10699	3738	3467
35°	10921	3406	3303
40°	10734	3077	3133
45°	9875	2780	2901
50°	8332	2456	2723
55°	6331	2152	2423
60°	4436	1845	2319
65°	2984	1589	2271
70°	2038	1492	2382
75°	1414	1538	2545
80°	973	1704	2620
85°	569	2131	2749



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	465.7	5.7
10°-20°	1095.5	13.4
20°-30°	1373.2	16.8
30°-40°	1457.2	17.8
40°-50°	1317.5	16.1
50°-60°	955.3	11.7
60°-70°	599.5	7.3
70°-80°	396.7	4.9
80°-90°	228.6	2.8
90°-100°	110.7	1.4
100°-110°	76.4	0.9
110°-120°	47.2	0.6
120°-130°	22.8	0.3
130°-140°	10.5	0.1
140°-150°	5.7	0.1
150°-160°	2.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2934.5	35.9
0°-40°	4391.6	53.8
0°-60°	6664.4	81.6
0°-90°	7889.1	96.6
90°-120°	234.3	2.9
90°-150°	273.4	3.3
90°-180°	276.0	3.4
0°-180°	8165.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5532	5532	5532	5532	5532	
5°	5521	5380	5064	4829	4707	528
15°	5563	4534	3601	3203	3058	1578
25°	5600	3506	2412	2140	2072	2587
35°	5400	2331	1750	1695	1695	3357
45°	4269	1476	1268	1299	1321	3252
55°	2260	915	828	898	930	2042
65°	808	531	479	614	682	841
75°	250	286	322	500	530	278
85°	44	118	235	328	301	52
90°	0	50	136	192	194	3
95°	2	35	120	163	171	2
105°	4	23	87	116	119	4
115°	6	16	59	74	75	6
125°	6	8	30	38	37	5
135°	5	6	13	20	20	4
145°	6	7	8	12	12	4
155°	6	8	8	9	8	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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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5532.2	5532.2	5532.2	5532.2	5532.2
2.5°	5520.6	5489.0	5390.6	5330.6	5280.0
5°	5521.2	5379.5	5063.6	4828.8	4707.2
7.5°	5529.1	5214.2	4645.0	4302.3	4168.5
10°	5541.2	5009.4	4254.3	3888.9	3764.1
12.5°	5550.1	4778.8	3910.5	3535.1	3398.2
15°	5563.3	4534.5	3601.4	3202.9	3057.5
17.5°	5575.4	4304.4	3296.1	2879.6	2717.9
20°	5587.5	4056.4	2990.7	2561.6	2428.3
22.5°	5599.1	3794.7	2692.7	2314.6	2223.5
25°	5600.1	3506.1	2411.5	2140.3	2072.4
27.5°	5586.5	3207.1	2183.5	1994.5	1952.4
30°	5562.8	2917.0	2006.6	1889.2	1859.2
32.5°	5503.8	2621.1	1869.7	1787.6	1770.2
35°	5399.5	2330.9	1750.2	1695.4	1694.9
37.5°	5235.3	2073.5	1620.7	1611.2	1622.8
40°	4992.5	1848.1	1498.0	1523.2	1523.2
42.5°	4668.7	1652.2	1386.9	1412.7	1405.8
45°	4268.6	1476.4	1268.4	1298.9	1321.1
47.5°	3804.7	1321.6	1147.3	1206.3	1236.8
50°	3300.3	1174.2	1036.7	1112.0	1146.8
52.5°	2771.6	1037.8	928.8	1015.1	1043.1
55°	2259.9	915.1	827.7	897.7	929.8
57.5°	1796.5	798.2	728.7	795.1	861.4
60°	1397.9	697.6	635.5	730.3	796.6
62.5°	1067.8	608.1	548.1	669.7	736.1
65°	808.2	530.7	479.1	613.9	682.4
67.5°	609.2	463.9	425.4	573.4	640.3
70°	457.6	399.1	382.3	548.1	608.1
72.5°	338.0	339.6	348.0	526.0	571.8
75°	249.6	285.9	321.7	499.7	529.7
77.5°	178.5	236.9	298.0	468.1	478.6
80°	123.7	193.2	273.3	426.5	417.5
82.5°	77.4	154.8	251.2	380.7	355.9
85°	43.7	118.5	235.4	327.5	300.6
87.5°	19.5	88.5	205.9	255.4	238.5
90°	0.0	49.5	136.4	192.2	193.8
92.5°	1.1	41.1	125.8	175.9	181.1
95°	2.1	34.8	120.0	163.2	170.6
97.5°	2.6	30.5	112.7	151.6	158.0
100°	3.2	27.4	103.7	139.5	144.8
102.5°	3.7	25.3	95.3	126.9	131.1
105°	4.2	23.2	87.4	115.8	119.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	5.3	17.9	65.8	83.2	85.8
115°	5.8	16.3	59.0	73.7	75.3
117.5°	6.3	14.2	51.6	64.8	65.3
120°	6.3	12.6	44.2	55.3	55.3
122.5°	6.3	10.5	36.9	45.8	45.3
125°	6.3	8.4	30.0	37.9	37.4
127.5°	5.8	6.8	24.2	31.6	31.1
130°	5.8	6.8	19.5	26.9	26.9
132.5°	5.3	6.3	15.8	23.2	23.2
135°	5.3	6.3	13.2	20.5	20.5
137.5°	5.3	6.8	11.1	17.9	17.9
140°	5.3	6.3	9.5	15.8	15.8
142.5°	5.8	6.3	8.4	13.7	13.7
145°	6.3	6.8	7.9	12.1	11.6
147.5°	6.3	7.4	7.9	10.5	10.0
150°	6.3	7.9	7.9	9.5	9.0
152.5°	6.3	7.9	7.9	9.0	8.4
155°	6.3	7.9	8.4	9.0	7.9
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°	4.2	21.6	80.0	103.7	107.4
110°	4.7	19.5	73.2	92.7	96.4



(END OF REPORT)