

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: P830925

Luminaire Tested: **OHBL-9HE-N-UNV-L840-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830925
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-L840-CD
Description: 9000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

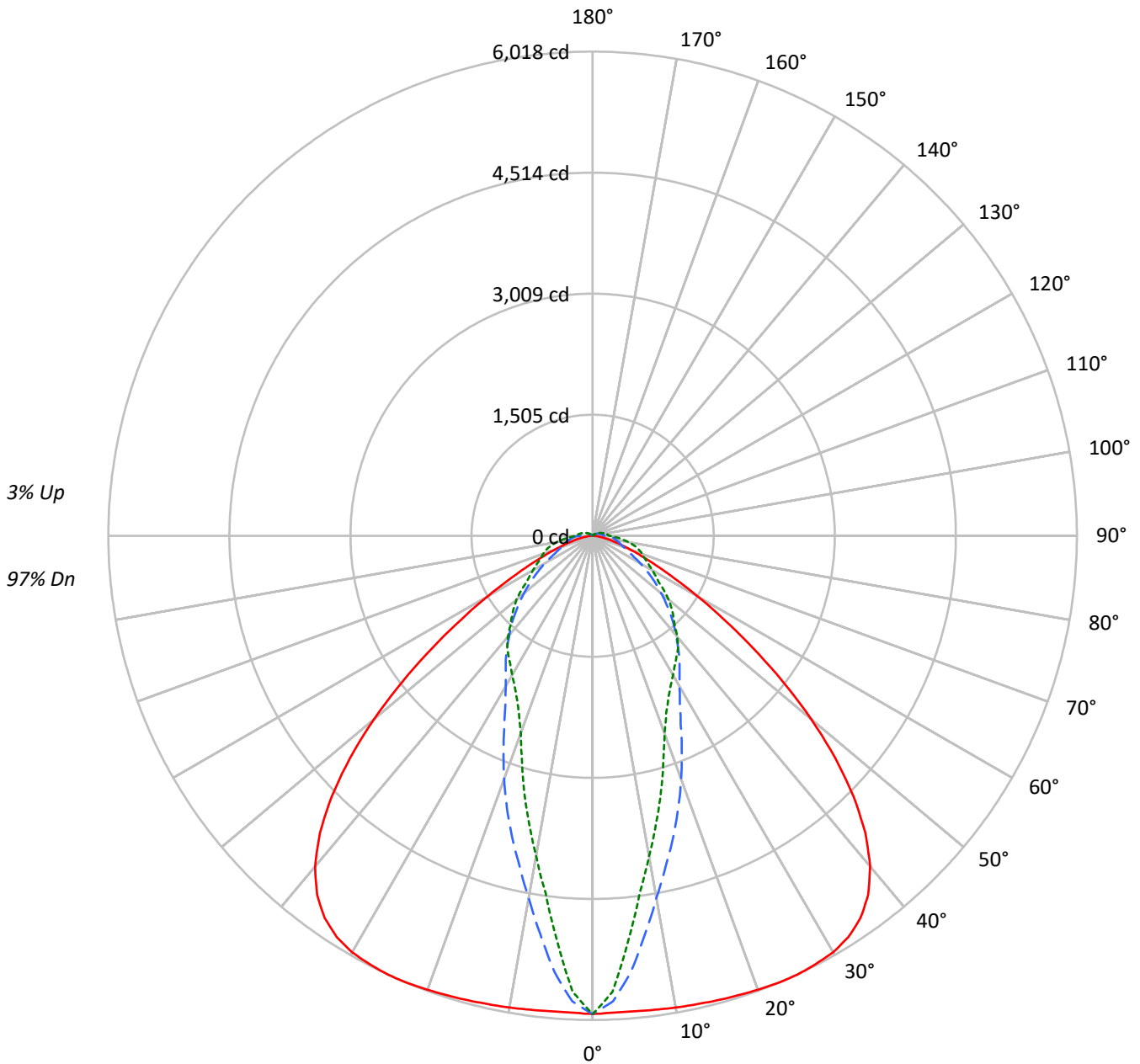
Lumens per Lamp: N/A
Luminaire Lumens: 8774.0 lumens
Efficiency: N/A
Efficacy: 168.7 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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

TEST NUMBER: P830925

CATALOG NUMBER: OHBL-9HE-N-UNV-L840-CD

Luminous Intensity Polar Plot





TEST NUMBER: P830925

CATALOG NUMBER: OHBL-9HE-N-UNV-L840-CD

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°	10154	10154	10154
5°	10133	9247	8597
10°	10247	7789	6894
15°	10447	6661	5658
20°	10741	5632	4576
25°	11112	4662	4010
30°	11497	4016	3725
35°	11736	3660	3549
40°	11535	3306	3367
45°	10612	2988	3117
50°	8953	2640	2926
55°	6803	2312	2604
60°	4767	1983	2493
65°	3207	1708	2440
70°	2190	1603	2560
75°	1520	1653	2735
80°	1047	1830	2816
85°	612	2289	2954



TEST NUMBER: P830925

CATALOG NUMBER: OHBL-9HE-N-UNV-L840-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	500.4	5.7
10°-20°	1177.2	13.4
20°-30°	1475.7	16.8
30°-40°	1565.8	17.8
40°-50°	1415.8	16.1
50°-60°	1026.5	11.7
60°-70°	644.2	7.3
70°-80°	426.3	4.9
80°-90°	245.6	2.8
90°-100°	119.0	1.4
100°-110°	82.1	0.9
110°-120°	50.7	0.6
120°-130°	24.5	0.3
130°-140°	11.3	0.1
140°-150°	6.2	0.1
150°-160°	2.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3153.3	35.9
0°-40°	4719.2	53.8
0°-60°	7161.5	81.6
0°-90°	8477.5	96.6
90°-120°	251.8	2.9
90°-150°	293.8	3.3
90°-180°	296.0	3.4
0°-180°	8774.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5945	5945	5945	5945	5945	
5°	5933	5781	5441	5189	5058	567
15°	5978	4873	3870	3442	3286	1695
25°	6018	3768	2591	2300	2227	2780
35°	5802	2505	1881	1822	1821	3607
45°	4587	1586	1363	1396	1420	3494
55°	2428	983	889	965	999	2194
65°	868	570	515	660	733	904
75°	268	307	346	537	569	299
85°	47	127	253	352	323	56
90°	0	53	146	206	208	3
95°	2	37	129	175	183	2
105°	4	25	94	124	128	5
115°	6	18	63	79	81	6
125°	7	9	32	41	40	6
135°	6	7	14	22	22	4
145°	7	7	8	13	12	4
155°	7	8	9	10	8	2
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P830925

CATALOG NUMBER: OHBL-9HE-N-UNV-L840-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5944.9	5944.9	5944.9	5944.9	5944.9
2.5°	5932.4	5898.5	5792.7	5728.2	5673.8
5°	5933.0	5780.8	5441.3	5188.9	5058.2
7.5°	5941.5	5603.1	4991.5	4623.1	4479.4
10°	5954.5	5383.0	4571.7	4179.0	4044.9
12.5°	5964.1	5135.2	4202.2	3798.8	3651.7
15°	5978.2	4872.7	3870.1	3441.8	3285.6
17.5°	5991.2	4625.4	3541.9	3094.4	2920.7
20°	6004.3	4358.9	3213.7	2752.6	2609.5
22.5°	6016.7	4077.7	2893.5	2487.3	2389.4
25°	6017.8	3767.7	2591.4	2300.0	2227.0
27.5°	6003.1	3446.3	2346.4	2143.2	2098.0
30°	5977.7	3134.5	2156.3	2030.1	1997.8
32.5°	5914.3	2816.5	2009.2	1920.9	1902.2
35°	5802.3	2504.8	1880.7	1821.9	1821.3
37.5°	5625.7	2228.1	1741.5	1731.3	1743.8
40°	5364.9	1986.0	1609.7	1636.9	1636.9
42.5°	5016.9	1775.5	1490.3	1518.0	1510.7
45°	4586.9	1586.5	1363.0	1395.8	1419.6
47.5°	4088.5	1420.2	1232.9	1296.2	1329.1
50°	3546.4	1261.7	1114.1	1195.0	1232.3
52.5°	2978.4	1115.2	998.1	1090.9	1120.8
55°	2428.4	983.4	889.4	964.7	999.2
57.5°	1930.5	857.8	783.1	854.4	925.6
60°	1502.2	749.7	682.9	784.8	856.1
62.5°	1147.4	653.5	589.0	719.7	791.0
65°	868.5	570.3	514.9	659.7	733.3
67.5°	654.6	498.5	457.2	616.2	688.0
70°	491.7	428.9	410.8	589.0	653.5
72.5°	363.2	364.9	374.0	565.2	614.5
75°	268.2	307.2	345.7	536.9	569.2
77.5°	191.8	254.6	320.2	503.0	514.3
80°	133.0	207.6	293.6	458.3	448.7
82.5°	83.2	166.3	269.9	409.1	382.5
85°	47.0	127.3	252.9	351.9	323.1
87.5°	20.9	95.1	221.2	274.4	256.3
90°	0.0	53.2	146.5	206.5	208.2
92.5°	1.1	44.1	135.2	189.0	194.6
95°	2.3	37.3	129.0	175.4	183.3
97.5°	2.8	32.8	121.1	163.0	169.7
100°	3.4	29.4	111.5	149.9	155.6
102.5°	4.0	27.2	102.4	136.4	140.9
105°	4.5	24.9	93.9	124.5	127.9



TEST NUMBER: P830925

CATALOG NUMBER: OHBL-9HE-N-UNV-L840-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	5.7	19.2	70.7	89.4	92.2
115°	6.2	17.5	63.4	79.2	80.9
117.5°	6.8	15.3	55.4	69.6	70.2
120°	6.8	13.6	47.5	59.4	59.4
122.5°	6.8	11.3	39.6	49.2	48.7
125°	6.8	9.1	32.3	40.7	40.2
127.5°	6.2	7.4	26.0	33.9	33.4
130°	6.2	7.4	20.9	28.9	28.9
132.5°	5.7	6.8	17.0	24.9	24.9
135°	5.7	6.8	14.1	22.1	22.1
137.5°	5.7	7.4	11.9	19.2	19.2
140°	5.7	6.8	10.2	17.0	17.0
142.5°	6.2	6.8	9.1	14.7	14.7
145°	6.8	7.4	8.5	13.0	12.4
147.5°	6.8	7.9	8.5	11.3	10.8
150°	6.8	8.5	8.5	10.2	9.6
152.5°	6.8	8.5	8.5	9.6	9.1
155°	6.8	8.5	9.1	9.6	8.5
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°	4.5	23.2	86.0	111.5	115.4
110°	5.1	20.9	78.6	99.6	103.5



(END OF REPORT)