

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: P830889

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830889
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-A-UNV-L840-CD
Description: 9000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

Summary

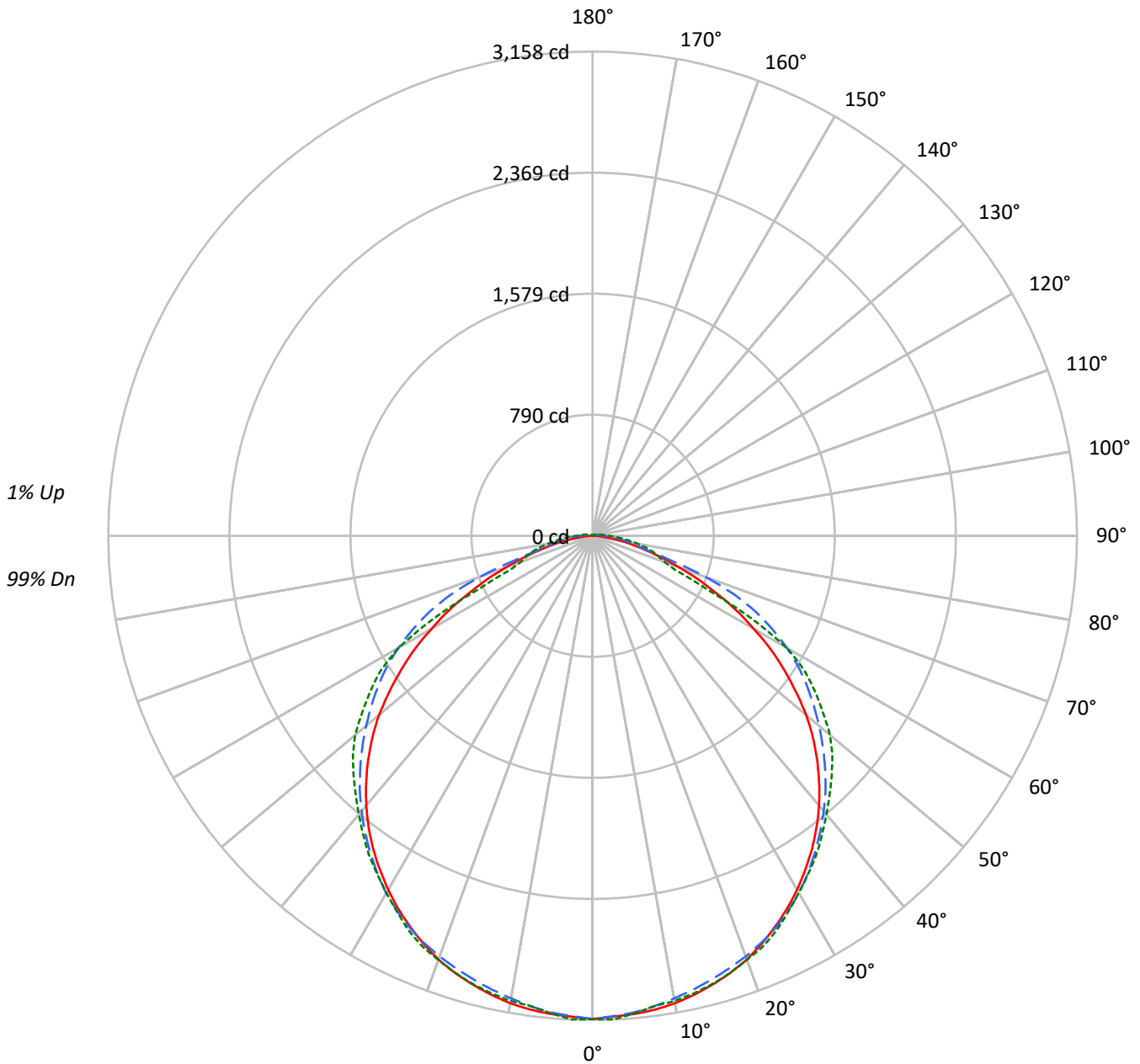
Lumens per Lamp: N/A
Luminaire Lumens: 8908.0 lumens
Efficiency: N/A
Efficacy: 171.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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

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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°	5383	5383	5383
5°	5348	5302	5313
10°	5328	5220	5250
15°	5294	5157	5212
20°	5261	5117	5162
25°	5197	5076	5113
30°	5128	5014	5012
35°	5045	4916	4955
40°	4938	4815	4878
45°	4790	4698	4841
50°	4588	4565	4797
55°	4268	4434	4612
60°	3848	4243	4256
65°	3301	3893	2692
70°	2659	3033	1946
75°	1994	1795	1966
80°	1388	1485	1865
85°	790	1349	1725



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.2	3.3
10°-20°	852.1	9.6
20°-30°	1301.5	14.6
30°-40°	1579.2	17.7
40°-50°	1655.1	18.6
50°-60°	1499.8	16.8
60°-70°	1005.5	11.3
70°-80°	451.5	5.1
80°-90°	163.9	1.8
90°-100°	49.3	0.6
100°-110°	23.3	0.3
110°-120°	11.7	0.1
120°-130°	6.4	0.1
130°-140°	4.4	0.0
140°-150°	3.0	0.0
150°-160°	2.2	0.0
160°-170°	1.4	0.0
170°-180°	0.5	0.0
0°-30°	2450.8	27.5
0°-40°	4030.0	45.2
0°-60°	7184.9	80.7
0°-90°	8805.8	98.9
90°-120°	84.3	0.9
90°-150°	98.1	1.1
90°-180°	102.0	1.1
0°-180°	8908.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3152	3152	3152	3152	3152	
5°	3131	3142	3120	3130	3126	298
15°	3030	3018	2996	3023	3026	855
25°	2814	2802	2822	2848	2840	1297
35°	2494	2500	2526	2553	2543	1559
45°	2070	2104	2143	2198	2205	1595
55°	1523	1597	1706	1774	1770	1360
65°	894	1034	1174	991	809	891
75°	352	510	376	384	409	384
85°	61	116	149	180	189	74
90°	0	39	77	97	101	4
95°	0	24	53	64	66	1
105°	2	10	26	31	33	2
115°	4	6	13	17	18	3
125°	3	4	8	10	10	3
135°	4	5	5	7	8	3
145°	4	5	5	5	6	3
155°	5	5	5	5	5	2
165°	5	5	5	5	5	1
175°	5	5	5	4	4	0
180°	5	5	5	5	5	



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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3151.7	3151.7	3151.7	3151.7	3151.7
2.5°	3138.9	3152.1	3135.7	3153.5	3158.0
5°	3131.2	3142.1	3120.2	3129.8	3125.7
7.5°	3117.0	3120.7	3094.7	3102.4	3094.2
10°	3096.1	3094.2	3063.7	3078.7	3080.6
12.5°	3065.1	3059.6	3032.3	3055.0	3055.5
15°	3029.5	3017.7	2996.3	3022.7	3026.3
17.5°	2988.5	2973.0	2958.9	2993.1	2987.6
20°	2940.7	2922.4	2919.7	2957.1	2943.4
22.5°	2881.4	2867.3	2873.7	2909.2	2900.6
25°	2814.4	2802.1	2821.7	2847.7	2839.5
27.5°	2743.8	2736.5	2758.8	2778.9	2762.9
30°	2666.3	2662.2	2691.9	2708.3	2688.2
32.5°	2582.0	2583.4	2611.6	2634.0	2615.3
35°	2494.5	2500.5	2526.0	2552.9	2542.8
37.5°	2398.4	2411.6	2437.1	2467.6	2457.2
40°	2296.8	2315.9	2344.1	2381.1	2371.5
42.5°	2186.9	2211.1	2247.5	2288.6	2287.6
45°	2070.3	2104.0	2143.2	2197.9	2204.7
47.5°	1949.1	1986.9	2036.5	2109.5	2119.9
50°	1817.4	1864.7	1926.7	2014.2	2020.6
52.5°	1670.6	1735.3	1817.4	1901.2	1893.5
55°	1523.4	1596.8	1705.7	1774.1	1770.0
57.5°	1376.7	1459.2	1591.3	1640.1	1639.6
60°	1212.6	1317.0	1461.4	1498.4	1461.9
62.5°	1060.9	1173.0	1322.9	1296.0	1171.2
65°	894.1	1034.0	1173.9	990.7	808.9
67.5°	746.0	891.8	997.1	678.5	581.0
70°	597.0	757.8	777.4	503.6	496.7
72.5°	464.8	636.2	536.4	431.1	453.0
75°	351.8	510.4	375.5	384.2	409.2
77.5°	256.6	391.9	292.1	336.8	357.3
80°	176.4	277.5	238.3	283.0	297.1
82.5°	110.7	183.2	190.9	227.9	242.4
85°	60.6	116.2	149.0	180.0	188.7
87.5°	25.1	70.2	113.9	139.0	146.3
90°	0.5	38.7	77.0	96.6	101.2
92.5°	0.5	29.6	62.9	77.9	81.1
95°	0.5	24.2	52.9	64.3	66.1
97.5°	0.9	19.1	44.2	53.3	55.1
100°	1.4	15.9	36.9	44.7	46.0
102.5°	1.8	12.8	31.0	37.4	38.7
105°	1.8	10.5	26.0	31.4	32.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.2	6.4	15.5	19.6	20.5
115°	3.6	5.5	13.2	16.9	17.8
117.5°	3.6	4.6	11.4	14.1	15.0
120°	3.6	4.1	10.0	12.3	12.8
122.5°	3.6	3.6	8.7	10.9	11.4
125°	3.2	3.6	8.2	9.6	10.0
127.5°	3.6	3.6	7.3	8.7	9.1
130°	3.6	4.1	6.4	8.2	8.2
132.5°	4.1	4.6	5.9	7.7	7.7
135°	4.1	4.6	5.0	7.3	7.7
137.5°	4.6	4.6	4.6	6.8	7.3
140°	4.6	4.6	4.1	5.9	6.4
142.5°	4.1	4.6	4.1	5.5	5.9
145°	4.1	4.6	4.6	5.0	5.5
147.5°	4.6	4.6	4.6	4.6	5.0
150°	4.6	4.6	4.6	4.6	4.6
152.5°	4.6	4.6	4.6	4.6	4.6
155°	4.6	5.0	5.0	5.0	4.6
157.5°	4.6	5.0	5.0	5.0	5.0
160°	4.6	5.0	5.0	5.0	5.0
162.5°	5.0	5.0	5.0	5.0	5.0
165°	5.0	5.0	5.0	5.0	5.0
167.5°	5.0	5.5	5.0	5.0	5.0
170°	5.0	5.0	5.0	4.6	4.6
172.5°	5.0	5.0	5.0	4.6	4.6
175°	5.0	5.0	4.6	4.1	4.1
177.5°	5.5	5.0	4.6	4.1	3.6
180°	4.6	4.6	4.6	4.6	4.6



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	2.3	8.7	22.3	26.9	27.8
110°	2.7	7.3	18.7	22.8	23.7



(END OF REPORT)