

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: P830949

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830949  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-9HE-W-UNV-L840-CD  
Description: 9000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND WIDE LENS  
Light Source: -  
Ballast/Driver: -

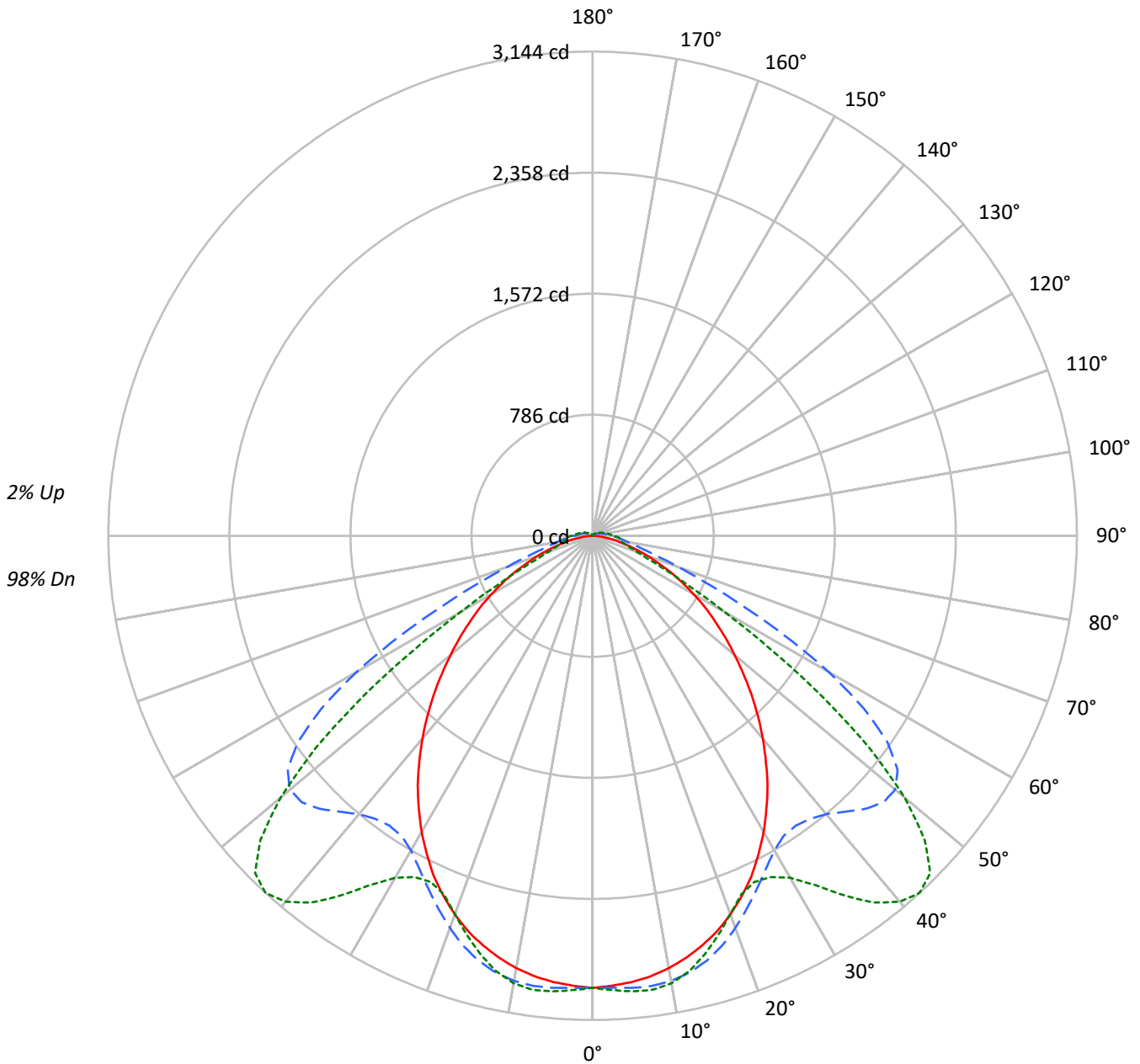
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8792.0 lumens  
Efficiency: N/A  
Efficacy: 169.1 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62  
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<sub>in</sub>): 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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98			
1	109	104	100	96	106	102	98	95	97	94	91	93	90	88	89	87	85	83			
2	99	91	85	79	96	89	83	78	85	80	76	82	77	74	78	75	72	70			
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	69	65	61	59			
4	83	71	62	56	80	69	61	55	67	60	54	64	58	53	62	57	52	50			
5	76	63	54	48	74	62	54	47	60	52	47	57	51	46	55	50	45	43			
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	38			
7	65	51	43	36	63	50	42	36	49	41	36	47	40	35	45	40	35	33			
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29			
9	56	43	34	29	55	42	34	29	41	34	28	39	33	28	38	32	28	26			
10	52	39	31	26	51	39	31	26	38	31	26	36	30	26	35	30	25	24			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	5015	5015	5015
5°	4969	5008	5048
10°	4906	5001	5029
15°	4810	4918	4844
20°	4679	4749	4583
25°	4504	4544	4467
30°	4271	4392	4779
35°	4004	4473	5558
40°	3695	4845	6380
45°	3372	5495	6804
50°	3035	6076	6273
55°	2719	6069	4741
60°	2397	5134	2859
65°	2056	3545	1701
70°	1670	2291	1199
75°	1271	1642	1072
80°	912	1441	1137
85°	619	1583	1582



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	280.6	3.2
10°-20°	794.6	9.0
20°-30°	1162.7	13.2
30°-40°	1510.1	17.2
40°-50°	1844.0	21.0
50°-60°	1623.9	18.5
60°-70°	846.2	9.6
70°-80°	362.9	4.1
80°-90°	174.3	2.0
90°-100°	81.9	0.9
100°-110°	50.9	0.6
110°-120°	30.1	0.3
120°-130°	16.3	0.2
130°-140°	8.2	0.1
140°-150°	3.9	0.0
150°-160°	1.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2237.9	25.5
0°-40°	3748.0	42.6
0°-60°	7215.9	82.1
0°-90°	8599.2	97.8
90°-120°	162.9	1.9
90°-150°	191.4	2.2
90°-180°	193.0	2.2
0°-180°	8792.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2936	2936	2936	2936	2936	
5°	2909	2931	2947	2973	2970	276
15°	2753	2830	2857	2836	2813	775
25°	2439	2570	2526	2478	2481	1119
35°	1980	2189	2298	2680	2852	1234
45°	1458	1834	2507	3035	3098	1124
55°	971	1607	2334	2047	1820	871
65°	557	1113	1069	594	511	551
75°	224	521	343	235	223	245
85°	48	186	175	171	173	53
90°	1	67	115	132	135	3
95°	1	39	92	108	111	1
105°	2	22	60	72	73	3
115°	4	13	37	45	46	4
125°	4	6	22	28	28	4
135°	4	4	10	17	18	3
145°	5	4	4	8	10	3
155°	5	5	4	4	4	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°	2936.4	2936.4	2936.4	2936.4	2936.4
2.5°	2923.7	2936.4	2937.0	2954.7	2952.8
5°	2909.1	2931.3	2947.1	2973.1	2969.9
7.5°	2885.1	2919.9	2947.8	2976.3	2973.7
10°	2850.8	2898.4	2935.1	2958.5	2950.9
12.5°	2806.5	2869.2	2905.3	2910.4	2895.8
15°	2752.6	2829.9	2857.2	2835.6	2812.8
17.5°	2691.8	2782.4	2791.9	2745.0	2716.5
20°	2615.8	2719.1	2709.6	2644.9	2613.3
22.5°	2531.5	2649.4	2619.0	2551.2	2520.8
25°	2439.1	2569.6	2525.8	2478.3	2480.9
27.5°	2330.7	2479.0	2436.5	2458.1	2498.6
30°	2220.5	2383.9	2358.0	2483.4	2563.2
32.5°	2099.5	2286.4	2309.8	2557.5	2688.0
35°	1979.8	2188.8	2298.4	2680.4	2852.1
37.5°	1847.3	2090.0	2316.8	2822.3	3002.3
40°	1718.7	1993.7	2358.6	2949.7	3101.7
42.5°	1587.6	1907.5	2428.9	3025.1	3143.5
45°	1457.7	1834.0	2506.8	3035.2	3098.5
47.5°	1327.9	1772.0	2560.7	2954.7	2925.6
50°	1202.4	1716.8	2564.5	2761.5	2642.4
52.5°	1085.2	1666.2	2494.8	2453.6	2268.6
55°	970.6	1606.6	2334.5	2046.9	1819.5
57.5°	866.0	1524.3	2087.5	1609.8	1361.4
60°	755.2	1412.8	1768.2	1177.7	982.0
62.5°	653.2	1274.0	1410.2	819.8	705.7
65°	556.9	1113.1	1068.7	594.2	511.3
67.5°	454.9	946.5	788.7	433.3	380.1
70°	375.0	791.9	587.3	337.0	306.0
72.5°	293.3	644.9	439.0	273.7	256.6
75°	224.3	520.8	343.4	235.0	223.0
77.5°	165.3	411.8	276.2	207.8	196.4
80°	115.9	324.4	231.2	185.6	181.2
82.5°	77.9	250.9	197.0	176.8	177.4
85°	47.5	185.6	174.9	171.1	173.0
87.5°	22.8	131.8	150.1	155.8	157.7
90°	0.6	67.2	115.3	131.8	134.9
92.5°	0.0	51.3	101.4	117.8	121.0
95°	1.3	39.3	91.9	107.7	110.9
97.5°	1.3	32.3	82.4	98.8	100.7
100°	1.9	27.9	73.5	89.3	91.2
102.5°	1.9	24.7	65.9	79.8	81.1
105°	2.5	22.2	59.6	71.6	72.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	3.8	15.2	41.8	50.7	51.9
115°	3.8	12.7	36.7	45.0	46.2
117.5°	4.4	11.4	32.3	39.9	40.5
120°	4.4	9.5	27.9	35.5	36.1
122.5°	4.4	7.6	24.7	31.7	32.3
125°	4.4	6.3	21.5	27.9	28.5
127.5°	3.8	4.4	18.4	24.7	25.3
130°	3.8	3.8	15.2	21.5	22.8
132.5°	3.8	3.8	12.7	19.0	20.3
135°	3.8	3.8	10.1	17.1	17.7
137.5°	3.8	3.8	8.2	14.6	15.8
140°	3.8	3.8	6.3	12.7	13.3
142.5°	4.4	3.8	5.7	10.8	11.4
145°	5.1	3.8	4.4	8.2	9.5
147.5°	5.1	4.4	4.4	7.0	7.6
150°	5.1	5.1	3.8	5.1	6.3
152.5°	5.1	5.1	3.8	3.8	5.1
155°	5.1	5.1	3.8	3.8	3.8
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°	3.2	19.6	53.2	64.0	65.3
110°	3.2	17.1	46.9	57.0	58.3



(END OF REPORT)