

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: P830085

Luminaire Tested: **OHBL-24HE-W-UNV-L840-CD**

Issue Date: 5/3/2024



**Test Information**

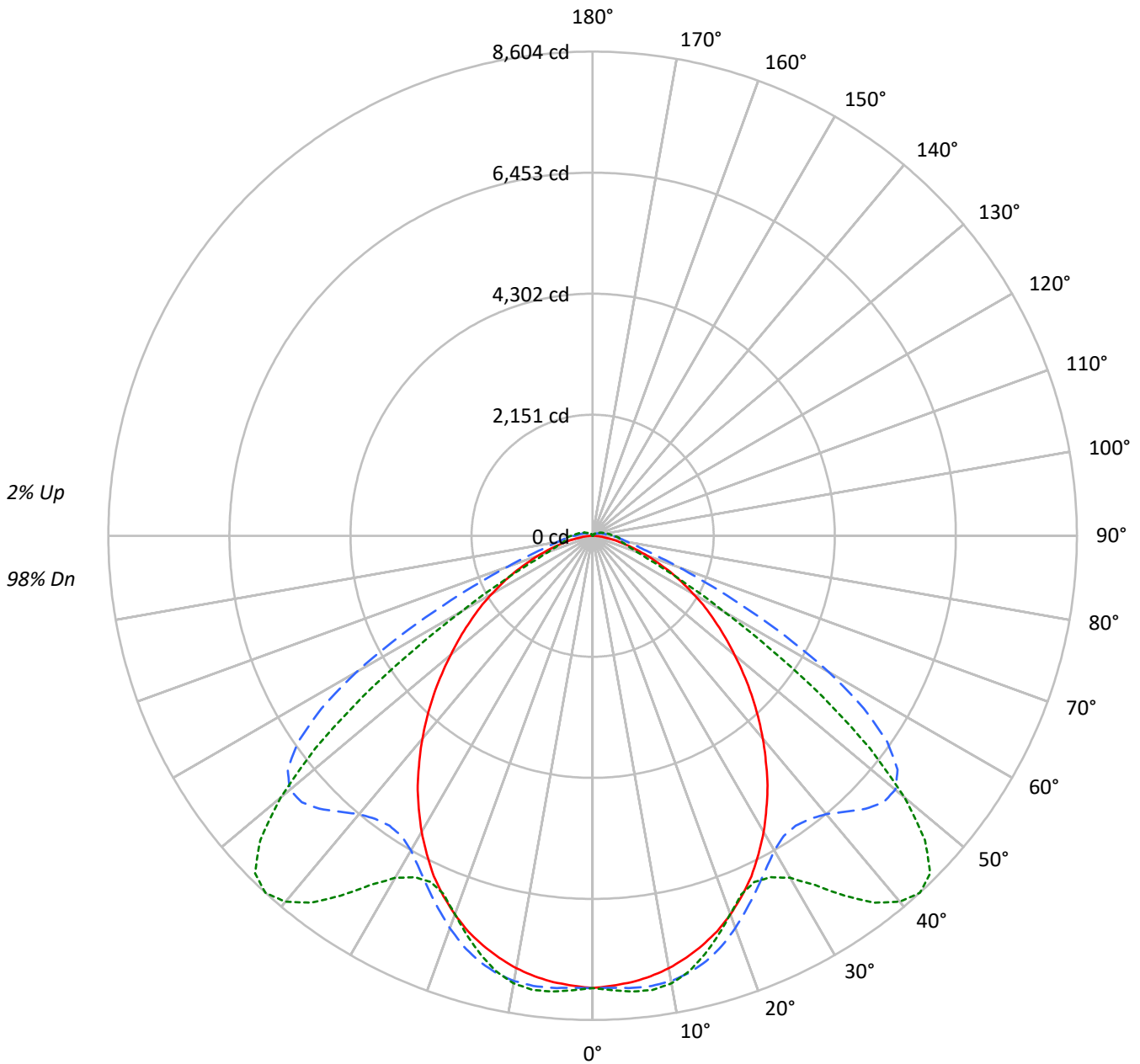
Test Method: LM-79-08  
Report Number: P830085  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-24HE-W-UNV-L840-CD  
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND WIDE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24065.0 lumens  
Efficiency: N/A  
Efficacy: 180.9 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62  
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 133  
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	100	100	100	98
1	109	104	100	96	106	102	98	95	97	94	91	93	90	88	89	87	85	85	85	85	83
2	99	91	85	79	96	89	83	78	85	80	76	82	77	74	78	75	72	72	72	72	70
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	69	65	61	61	61	61	59
4	83	71	62	56	80	69	61	55	67	60	54	64	58	53	62	57	52	52	52	52	50
5	76	63	54	48	74	62	54	47	60	52	47	57	51	46	55	50	45	45	45	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	40	40	40	38
7	65	51	43	36	63	50	42	36	49	41	36	47	40	35	45	40	35	35	35	35	33
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	31	31	31	29
9	56	43	34	29	55	42	34	29	41	34	28	39	33	28	38	32	28	28	28	28	26
10	52	39	31	26	51	39	31	26	38	31	26	36	30	26	35	30	25	25	25	25	24

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

	0°	45°	90°
0°	12711	12711	12711
5°	12592	12699	12802
10°	12434	12685	12763
15°	12192	12481	12300
20°	11859	12058	11646
25°	11415	11544	11359
30°	10823	11163	12162
35°	10149	11376	14154
40°	9366	12328	16263
45°	8547	13994	17361
50°	7693	15486	16026
55°	6891	15481	12127
60°	6074	13112	7326
65°	5211	9067	4369
70°	4234	5873	3087
75°	3221	4220	2772
80°	2312	3723	2961
85°	1570	4126	4173



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	768.1	3.2
10°-20°	2174.9	9.0
20°-30°	3182.6	13.2
30°-40°	4133.2	17.2
40°-50°	5047.2	21.0
50°-60°	4444.9	18.5
60°-70°	2316.2	9.6
70°-80°	993.3	4.1
80°-90°	477.0	2.0
90°-100°	224.1	0.9
100°-110°	139.3	0.6
110°-120°	82.4	0.3
120°-130°	44.8	0.2
130°-140°	22.5	0.1
140°-150°	10.8	0.0
150°-160°	3.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	6125.5	25.5
0°-40°	10258.8	42.6
0°-60°	19750.9	82.1
0°-90°	23537.4	97.8
90°-120°	445.7	1.9
90°-150°	523.8	2.2
90°-180°	528.0	2.2
0°-180°	24065.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8037	8037	8037	8037	8037	
5°	7963	8023	8067	8138	8129	755
15°	7534	7746	7820	7762	7699	2121
25°	6676	7033	6914	6784	6790	3064
35°	5419	5991	6291	7337	7807	3377
45°	3990	5020	6862	8308	8481	3077
55°	2656	4398	6390	5603	4980	2384
65°	1524	3047	2925	1626	1399	1508
75°	614	1425	940	643	610	669
85°	130	508	479	468	473	145
90°	2	184	316	361	369	9
95°	4	108	251	295	304	3
105°	7	61	163	196	199	7
115°	10	35	101	123	127	11
125°	12	17	59	76	78	10
135°	10	10	28	47	49	8
145°	14	10	12	22	26	8
155°	14	14	10	10	10	4
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°	8037.3	8037.3	8037.3	8037.3	8037.3
2.5°	8002.6	8037.3	8039.0	8087.6	8082.4
5°	7962.7	8023.4	8066.7	8137.8	8129.2
7.5°	7896.8	7992.2	8068.5	8146.5	8139.6
10°	7803.2	7933.2	8033.8	8098.0	8077.2
12.5°	7681.8	7853.5	7952.3	7966.2	7926.3
15°	7534.4	7746.0	7820.5	7761.6	7699.1
17.5°	7367.9	7615.9	7641.9	7513.6	7435.6
20°	7159.8	7442.5	7416.5	7239.6	7152.9
22.5°	6929.2	7251.8	7168.5	6983.0	6899.7
25°	6676.1	7033.3	6913.6	6783.6	6790.5
27.5°	6379.5	6785.3	6669.1	6728.1	6839.0
30°	6077.8	6525.2	6454.1	6797.4	7015.9
32.5°	5746.6	6258.1	6322.3	7000.3	7357.5
35°	5418.9	5991.1	6291.1	7336.7	7806.6
37.5°	5056.5	5720.6	6341.4	7725.1	8217.6
40°	4704.4	5457.0	6455.8	8073.7	8489.9
42.5°	4345.5	5221.2	6648.3	8280.0	8604.3
45°	3990.0	5020.0	6861.6	8307.8	8481.2
47.5°	3634.5	4850.1	7009.0	8087.6	8007.8
50°	3291.2	4699.2	7019.4	7558.7	7232.7
52.5°	2970.4	4560.5	6828.6	6715.9	6209.6
55°	2656.5	4397.5	6389.9	5602.7	4980.2
57.5°	2370.4	4172.1	5713.7	4406.2	3726.4
60°	2067.0	3866.9	4839.7	3223.6	2687.8
62.5°	1787.8	3487.2	3860.0	2243.8	1931.7
65°	1524.2	3046.7	2925.3	1626.5	1399.4
67.5°	1245.0	2590.7	2158.9	1186.1	1040.4
70°	1026.6	2167.5	1607.5	922.5	837.5
72.5°	802.9	1765.3	1201.7	749.1	702.3
75°	613.8	1425.4	939.8	643.3	610.4
77.5°	452.6	1127.1	756.0	568.8	537.6
80°	317.3	887.8	632.9	508.1	495.9
82.5°	213.3	686.7	539.3	483.8	485.5
85°	130.1	508.1	478.6	468.2	473.4
87.5°	62.4	360.7	411.0	426.6	431.8
90°	1.7	183.8	315.6	360.7	369.4
92.5°	0.0	140.5	277.4	322.5	331.2
95°	3.5	107.5	251.4	294.8	303.5
97.5°	3.5	88.4	225.4	270.5	275.7
100°	5.2	76.3	201.1	244.5	249.7
102.5°	5.2	67.6	180.3	218.5	222.0
105°	6.9	60.7	163.0	195.9	199.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	10.4	41.6	114.4	138.7	142.2
115°	10.4	34.7	100.6	123.1	126.6
117.5°	12.1	31.2	88.4	109.2	111.0
120°	12.1	26.0	76.3	97.1	98.8
122.5°	12.1	20.8	67.6	86.7	88.4
125°	12.1	17.3	59.0	76.3	78.0
127.5°	10.4	12.1	50.3	67.6	69.4
130°	10.4	10.4	41.6	59.0	62.4
132.5°	10.4	10.4	34.7	52.0	55.5
135°	10.4	10.4	27.7	46.8	48.6
137.5°	10.4	10.4	22.5	39.9	43.4
140°	10.4	10.4	17.3	34.7	36.4
142.5°	12.1	10.4	15.6	29.5	31.2
145°	13.9	10.4	12.1	22.5	26.0
147.5°	13.9	12.1	12.1	19.1	20.8
150°	13.9	13.9	10.4	13.9	17.3
152.5°	13.9	13.9	10.4	10.4	13.9
155°	13.9	13.9	10.4	10.4	10.4
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°	8.7	53.8	145.7	175.1	178.6
110°	8.7	46.8	128.3	156.1	159.5



(END OF REPORT)