

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: P830230

Luminaire Tested: **OHBL-30HE-W-UNV-L850-CD**

Issue Date: 5/3/2024



**Test Information**

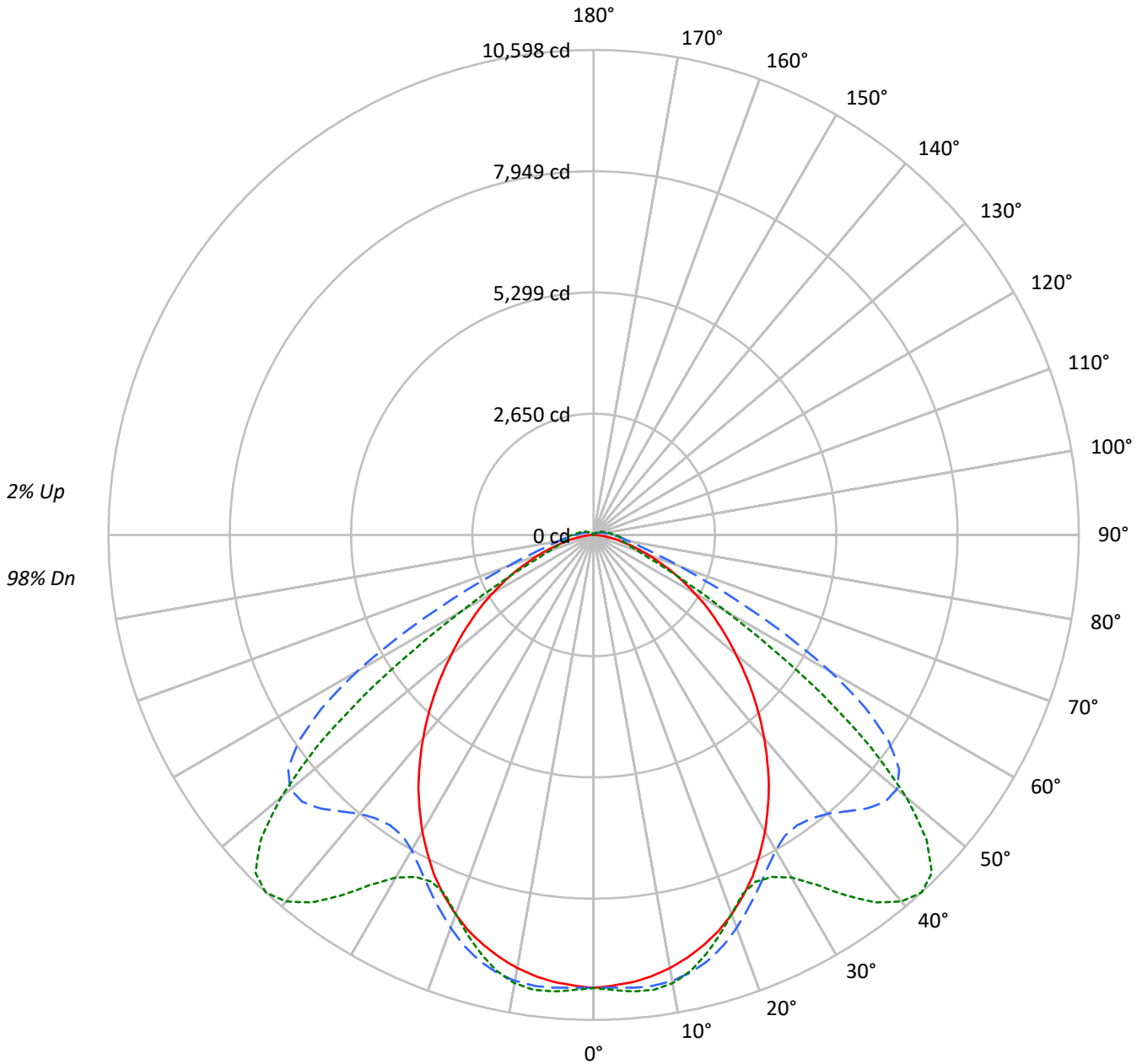
Test Method: LM-79-08  
Report Number: P830230  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-30HE-W-UNV-L850-CD  
Description: 30000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND WIDE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29641.0 lumens  
Efficiency: N/A  
Efficacy: 181.0 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): 163.8  
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°	15656	15656	15656
5°	15510	15641	15768
10°	15315	15624	15720
15°	15017	15373	15150
20°	14607	14851	14344
25°	14060	14218	13991
30°	13331	13750	14980
35°	12500	14012	17433
40°	11536	15184	20032
45°	10527	17236	21383
50°	9476	19074	19739
55°	8488	19068	14937
60°	7481	16151	9024
65°	6419	11168	5381
70°	5215	7234	3803
75°	3967	5198	3414
80°	2848	4586	3647
85°	1933	5082	5140



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	946.0	3.2
10°-20°	2678.8	9.0
20°-30°	3920.0	13.2
30°-40°	5090.9	17.2
40°-50°	6216.7	21.0
50°-60°	5474.8	18.5
60°-70°	2852.9	9.6
70°-80°	1223.4	4.1
80°-90°	587.6	2.0
90°-100°	276.0	0.9
100°-110°	171.6	0.6
110°-120°	101.4	0.3
120°-130°	55.1	0.2
130°-140°	27.7	0.1
140°-150°	13.3	0.0
150°-160°	4.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	7544.9	25.5
0°-40°	12635.8	42.6
0°-60°	24327.3	82.1
0°-90°	28991.2	97.8
90°-120°	549.1	1.9
90°-150°	645.2	2.2
90°-180°	650.0	2.2
0°-180°	29641.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9900	9900	9900	9900	9900	
5°	9808	9882	9936	10023	10013	930
15°	9280	9541	9633	9560	9483	2613
25°	8223	8663	8516	8355	8364	3774
35°	6674	7379	7749	9037	9616	4160
45°	4914	6183	8452	10233	10446	3789
55°	3272	5416	7870	6901	6134	2937
65°	1877	3753	3603	2003	1724	1857
75°	756	1756	1158	792	752	824
85°	160	626	590	577	583	179
90°	2	226	389	444	455	11
95°	4	132	310	363	374	3
105°	8	75	201	241	246	9
115°	13	43	124	152	156	13
125°	15	21	73	94	96	13
135°	13	13	34	58	60	10
145°	17	13	15	28	32	10
155°	17	17	13	13	13	5
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CATALOG NUMBER: OHBL-30HE-W-UNV-L850-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9899.6	9899.6	9899.6	9899.6	9899.6
2.5°	9856.8	9899.6	9901.7	9961.5	9955.1
5°	9807.7	9882.5	9935.9	10023.4	10012.8
7.5°	9726.6	9844.0	9938.0	10034.1	10025.6
10°	9611.2	9771.4	9895.3	9974.3	9948.7
12.5°	9461.7	9673.2	9794.9	9812.0	9762.9
15°	9280.2	9540.7	9632.6	9560.0	9483.1
17.5°	9075.1	9380.5	9412.6	9254.5	9158.4
20°	8818.8	9167.0	9134.9	8917.1	8810.3
22.5°	8534.8	8932.0	8829.5	8601.0	8498.5
25°	8222.9	8662.9	8515.5	8355.4	8363.9
27.5°	7857.7	8357.5	8214.4	8287.0	8423.7
30°	7486.1	8037.1	7949.5	8372.4	8641.6
32.5°	7078.1	7708.2	7787.2	8622.3	9062.3
35°	6674.5	7379.3	7748.8	9036.7	9615.5
37.5°	6228.1	7046.1	7810.7	9515.1	10121.7
40°	5794.5	6721.4	7951.7	9944.4	10457.0
42.5°	5352.4	6431.0	8188.8	10198.6	10598.0
45°	4914.5	6183.2	8451.5	10232.7	10446.3
47.5°	4476.7	5973.9	8633.0	9961.5	9863.2
50°	4053.8	5788.1	8645.8	9310.1	8908.5
52.5°	3658.7	5617.2	8410.9	8272.1	7648.4
55°	3272.1	5416.5	7870.5	6900.9	6134.1
57.5°	2919.7	5138.8	7037.5	5427.1	4589.9
60°	2545.9	4762.9	5961.1	3970.5	3310.5
62.5°	2202.0	4295.1	4754.3	2763.8	2379.3
65°	1877.4	3752.6	3603.1	2003.4	1723.6
67.5°	1533.5	3190.9	2659.1	1460.9	1281.5
70°	1264.4	2669.8	1979.9	1136.3	1031.6
72.5°	988.9	2174.3	1480.1	922.7	865.0
75°	756.1	1755.6	1157.6	792.4	751.8
77.5°	557.5	1388.3	931.2	700.6	662.1
80°	390.9	1093.5	779.6	625.8	610.8
82.5°	262.7	845.8	664.2	595.9	598.0
85°	160.2	625.8	589.5	576.7	583.1
87.5°	76.9	444.3	506.2	525.4	531.8
90°	2.1	226.4	388.7	444.3	454.9
92.5°	0.0	173.0	341.7	397.3	407.9
95°	4.3	132.4	309.7	363.1	373.8
97.5°	4.3	108.9	277.7	333.2	339.6
100°	6.4	94.0	247.8	301.2	307.6
102.5°	6.4	83.3	222.1	269.1	273.4
105°	8.5	74.8	200.8	241.3	245.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	12.8	51.3	141.0	170.9	175.1
115°	12.8	42.7	123.9	151.6	155.9
117.5°	15.0	38.4	108.9	134.6	136.7
120°	15.0	32.0	94.0	119.6	121.7
122.5°	15.0	25.6	83.3	106.8	108.9
125°	15.0	21.4	72.6	94.0	96.1
127.5°	12.8	15.0	61.9	83.3	85.4
130°	12.8	12.8	51.3	72.6	76.9
132.5°	12.8	12.8	42.7	64.1	68.3
135°	12.8	12.8	34.2	57.7	59.8
137.5°	12.8	12.8	27.8	49.1	53.4
140°	12.8	12.8	21.4	42.7	44.9
142.5°	15.0	12.8	19.2	36.3	38.4
145°	17.1	12.8	15.0	27.8	32.0
147.5°	17.1	15.0	15.0	23.5	25.6
150°	17.1	17.1	12.8	17.1	21.4
152.5°	17.1	17.1	12.8	12.8	17.1
155°	17.1	17.1	12.8	12.8	12.8
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°	10.7	66.2	179.4	215.7	220.0
110°	10.7	57.7	158.1	192.2	196.5



(END OF REPORT)