

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: P830290

Luminaire Tested: **OHBL-30SE-NL-UNV-L850-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830290  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-30SE-NL-UNV-L850-CD  
Description: 30000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND NO LENS  
Light Source: -  
Ballast/Driver: -

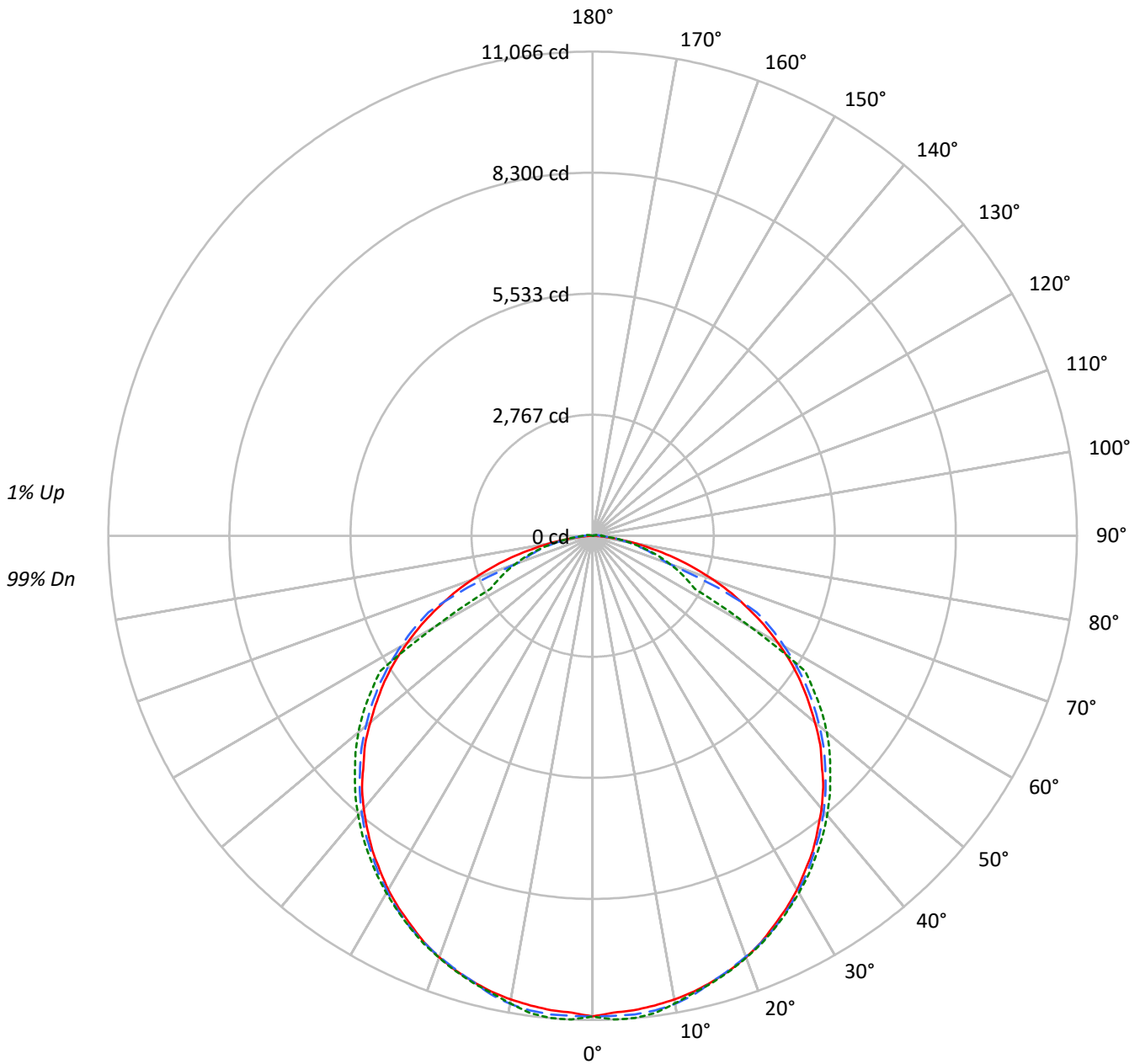
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30842.0 lumens  
Efficiency: N/A  
Efficacy: 177.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39  
Luminous Opening: Rectangular (W 1.67' x L: 3.78' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 174  
Input Voltage (V): NR  
Input Current (Ain): 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: P830290

CATALOG NUMBER: OHBL-30SE-NL-UNV-L850-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P830290

CATALOG NUMBER: OHBL-30SE-NL-UNV-L850-CD

**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	111	111	111	106	106	106	102	102	102	99																			
1	109	105	100	97	106	102	99	95	98	95	92	94	91	89	90	88	86	84																			
2	99	92	85	79	97	90	84	78	86	81	76	83	78	75	80	76	73	71																			
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62	60																			
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51																			
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44																			
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39																			
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34																			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30																			
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27																			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25																			

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

	0°	45°	90°
0°	18762	18762	18762
5°	18659	18827	18970
10°	18664	18841	18818
15°	18661	18658	18698
20°	18635	18607	18653
25°	18508	18602	18617
30°	18422	18517	18590
35°	18303	18403	18576
40°	18145	18317	18587
45°	17883	18153	18549
50°	17614	17973	18566
55°	17277	17724	18362
60°	16698	17291	14295
65°	15798	16717	9621
70°	14612	8875	9337
75°	12746	8433	8917
80°	9801	7736	8172
85°	4946	7819	8007



TEST NUMBER: P830290

CATALOG NUMBER: OHBL-30SE-NL-UNV-L850-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1043.6	3.4
10°-20°	2988.2	9.7
20°-30°	4546.8	14.7
30°-40°	5528.3	17.9
40°-50°	5812.7	18.8
50°-60°	5307.7	17.2
60°-70°	3402.5	11.0
70°-80°	1607.3	5.2
80°-90°	445.7	1.4
90°-100°	118.0	0.4
100°-110°	32.3	0.1
110°-120°	9.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	8578.6	27.8
0°-40°	14106.9	45.7
0°-60°	25227.2	81.8
0°-90°	30682.7	99.5
90°-120°	159.3	0.5
90°-150°	159.3	0.5
90°-180°	159.0	0.5
0°-180°	30842.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10985	10985	10985	10985	10985	
5°	10883	10925	10981	11041	11064	###
15°	10553	10632	10552	10567	10574	2979
25°	9821	9836	9871	9886	9879	4532
35°	8778	8726	8826	8934	8909	5486
45°	7404	7390	7516	7693	7679	5723
55°	5802	5758	5952	6151	6166	5174
65°	3909	3909	4136	2373	2380	3875
75°	1931	1968	1278	1346	1351	2036
85°	252	320	399	432	409	373
90°	0	108	177	210	206	11
95°	6	56	127	172	172	3
105°	10	21	31	31	29	10
115°	10	14	19	14	2	7
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P830290

CATALOG NUMBER: OHBL-30SE-NL-UNV-L850-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	10985.1	10985.1	10985.1	10985.1	10985.1
2.5°	10908.0	10944.7	10985.1	11037.2	11065.9
5°	10882.9	10925.3	10981.2	11041.0	11064.1
7.5°	10829.0	10888.6	10942.7	10985.1	10998.6
10°	10761.5	10832.9	10863.7	10859.8	10850.2
12.5°	10670.9	10746.2	10736.6	10692.1	10699.8
15°	10553.3	10632.3	10551.5	10566.8	10574.5
17.5°	10414.5	10491.7	10397.2	10428.0	10430.0
20°	10252.7	10310.5	10237.2	10262.3	10262.3
22.5°	10058.0	10098.4	10067.6	10085.0	10088.8
25°	9820.9	9836.2	9870.9	9886.4	9878.6
27.5°	9593.5	9574.2	9641.7	9678.2	9658.8
30°	9340.9	9310.1	9389.1	9448.9	9425.8
32.5°	9051.7	9032.5	9123.2	9194.4	9180.9
35°	8778.1	8726.0	8826.2	8934.2	8909.1
37.5°	8454.2	8423.4	8537.0	8650.9	8637.5
40°	8138.1	8086.0	8215.2	8350.1	8336.6
42.5°	7798.9	7737.1	7877.9	8039.9	8024.4
45°	7403.6	7390.2	7515.5	7692.8	7679.3
47.5°	7053.0	6985.5	7160.8	7332.4	7347.9
50°	6628.7	6603.9	6763.8	6972.0	6987.3
52.5°	6214.5	6197.1	6364.7	6574.9	6601.8
55°	5801.8	5757.6	5952.2	6150.8	6166.3
57.5°	5360.6	5314.3	5512.9	5728.8	5761.4
60°	4888.2	4843.9	5061.7	5262.3	4184.8
62.5°	4416.0	4385.2	4612.7	3267.2	2633.2
65°	3909.0	3909.0	4136.4	2372.8	2380.5
67.5°	3435.0	3404.2	3084.2	2131.8	2131.8
70°	2926.0	2937.7	1777.1	1867.9	1869.7
72.5°	2415.2	2457.7	1534.4	1607.5	1611.4
75°	1931.4	1968.1	1277.9	1345.5	1351.2
77.5°	1418.7	1091.0	1027.3	1079.6	1081.4
80°	996.5	688.1	786.5	836.5	830.8
82.5°	582.0	481.8	576.3	613.0	611.0
85°	252.4	320.0	399.0	431.8	408.6
87.5°	80.8	198.6	248.6	267.9	265.9
90°	0.0	108.0	177.3	210.0	206.3
92.5°	0.0	84.7	154.3	192.9	194.7
95°	5.7	55.9	127.3	171.6	171.6
97.5°	3.9	40.4	90.6	134.9	138.8
100°	3.9	32.7	59.8	96.3	98.4
102.5°	9.6	26.9	36.5	61.6	63.7
105°	9.6	21.2	30.8	30.8	29.0



TEST NUMBER: P830290

CATALOG NUMBER: OHBL-30SE-NL-UNV-L850-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	11.6	15.5	21.2	15.5	1.8
115°	9.6	13.5	19.2	13.5	1.8
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
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°	9.6	19.2	26.9	17.3	5.7
110°	11.6	17.3	23.1	15.5	1.8



(END OF REPORT)