

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: P830254

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830254
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-30SE-MCL-UNV-L850-CD
Description: 30000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

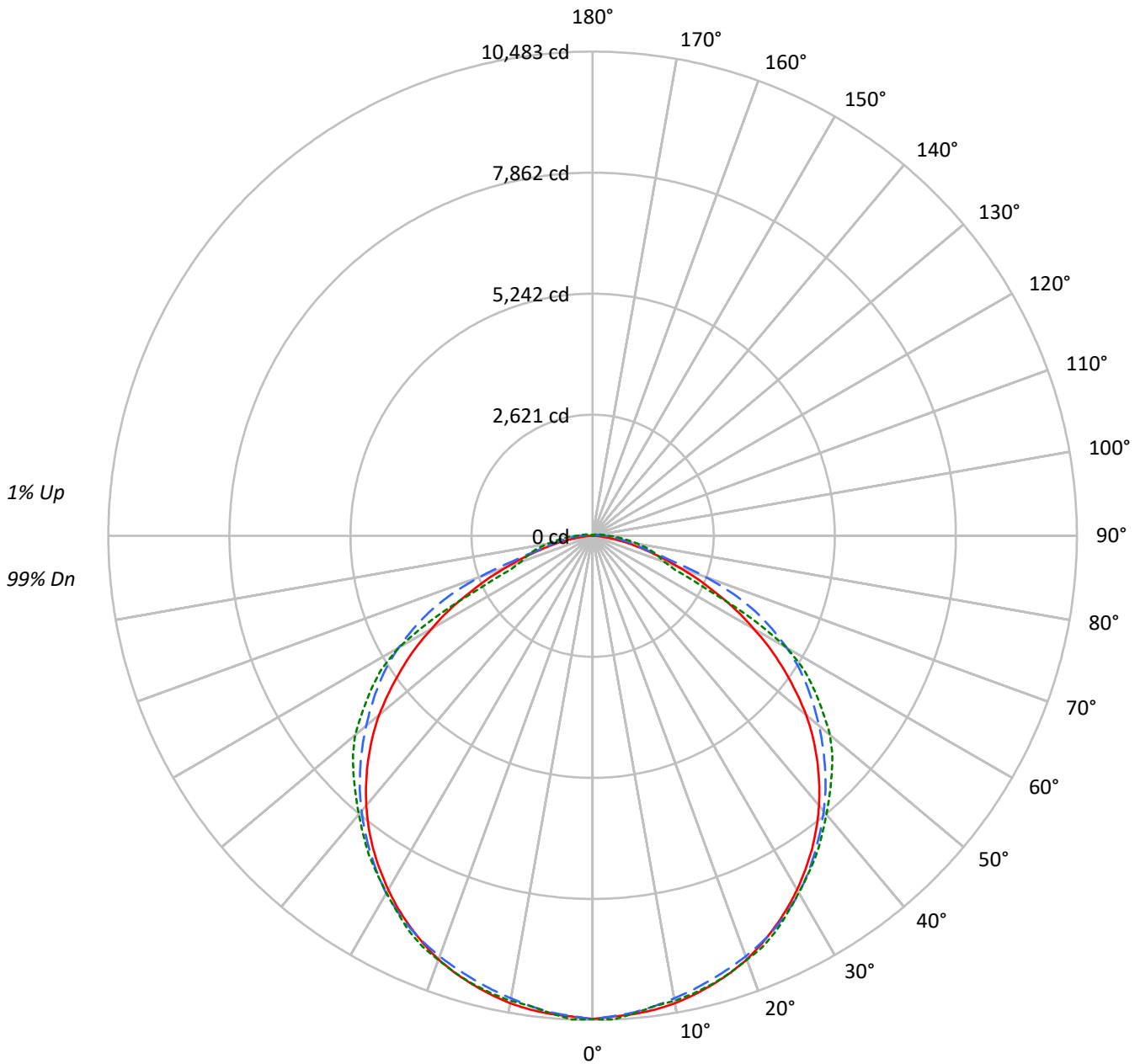
Lumens per Lamp: N/A
Luminaire Lumens: 29568.9 lumens
Efficiency: N/A
Efficacy: 169.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 174
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

TEST NUMBER: P830254

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

Luminous Intensity Polar Plot





TEST NUMBER: P830254

CATALOG NUMBER: OHBL-30SE-MCL-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	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°	17868	17868	17868
5°	17751	17601	17634
10°	17686	17326	17427
15°	17574	17119	17299
20°	17462	16986	17135
25°	17251	16851	16971
30°	17022	16643	16638
35°	16748	16318	16447
40°	16392	15982	16192
45°	15898	15595	16070
50°	15229	15154	15924
55°	14166	14718	15308
60°	12775	14085	14129
65°	10958	12924	8935
70°	8827	10068	6459
75°	6618	5959	6528
80°	4606	4931	6190
85°	2622	4478	5726



TEST NUMBER: P830254

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	986.4	3.3
10°-20°	2828.6	9.6
20°-30°	4320.2	14.6
30°-40°	5241.8	17.7
40°-50°	5493.9	18.6
50°-60°	4978.4	16.8
60°-70°	3337.8	11.3
70°-80°	1498.8	5.1
80°-90°	543.9	1.8
90°-100°	163.7	0.6
100°-110°	77.2	0.3
110°-120°	38.7	0.1
120°-130°	21.4	0.1
130°-140°	14.7	0.0
140°-150°	9.9	0.0
150°-160°	7.3	0.0
160°-170°	4.7	0.0
170°-180°	1.5	0.0
0°-30°	8135.2	27.5
0°-40°	13377.1	45.2
0°-60°	23849.4	80.7
0°-90°	29229.9	98.9
90°-120°	279.7	0.9
90°-150°	325.6	1.1
90°-180°	339.0	1.1
0°-180°	29568.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10462	10462	10462	10462	10462	
5°	10394	10430	10357	10389	10375	989
15°	10056	10017	9946	10034	10046	2839
25°	9342	9301	9366	9453	9425	4306
35°	8280	8300	8385	8474	8441	5175
45°	6872	6984	7114	7296	7318	5294
55°	5057	5300	5662	5889	5875	4514
65°	2968	3432	3897	3288	2685	2957
75°	1168	1694	1246	1275	1358	1276
85°	201	386	495	598	626	246
90°	2	129	256	321	336	12
95°	2	80	176	213	219	2
105°	6	35	86	104	109	7
115°	12	18	44	56	59	11
125°	11	12	27	32	33	11
135°	14	15	17	24	26	11
145°	14	15	15	17	18	9
155°	15	17	17	17	15	7
165°	17	17	17	17	17	5
175°	17	17	15	14	14	2
180°	15	15	15	15	15	



TEST NUMBER: P830254

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10461.5	10461.5	10461.5	10461.5	10461.5
2.5°	10419.2	10463.0	10408.6	10467.6	10482.7
5°	10393.5	10429.8	10357.2	10388.9	10375.3
7.5°	10346.6	10358.7	10272.5	10298.2	10270.9
10°	10277.0	10270.9	10169.6	10219.5	10225.6
12.5°	10174.1	10156.0	10065.2	10140.9	10142.4
15°	10056.1	10016.8	9945.7	10033.5	10045.6
17.5°	9920.0	9868.6	9821.7	9935.1	9917.0
20°	9761.2	9700.7	9691.6	9815.6	9770.3
22.5°	9564.5	9517.6	9538.8	9656.8	9628.1
25°	9342.2	9301.3	9366.4	9452.6	9425.4
27.5°	9107.7	9083.5	9157.6	9224.2	9171.2
30°	8850.6	8836.9	8935.3	8989.7	8923.2
32.5°	8570.7	8575.3	8669.0	8743.2	8681.1
35°	8280.3	8300.0	8384.7	8473.9	8440.6
37.5°	7961.1	8005.0	8089.7	8191.0	8156.2
40°	7623.8	7687.3	7781.1	7903.6	7871.9
42.5°	7259.2	7339.4	7460.4	7596.6	7593.5
45°	6872.0	6983.9	7114.0	7295.5	7318.2
47.5°	6469.6	6595.2	6760.1	7002.1	7036.9
50°	6032.5	6189.8	6395.5	6685.9	6707.1
52.5°	5545.4	5760.2	6032.5	6310.8	6285.1
55°	5056.8	5300.4	5661.9	5888.8	5875.2
57.5°	4569.7	4843.5	5282.2	5444.1	5442.5
60°	4025.2	4371.6	4851.1	4973.6	4852.6
62.5°	3521.5	3893.6	4391.2	4302.0	3887.5
65°	2967.8	3432.2	3896.6	3288.5	2685.0
67.5°	2476.2	2960.3	3309.7	2252.3	1928.6
70°	1981.6	2515.5	2580.6	1671.5	1648.8
72.5°	1542.9	2111.7	1780.4	1431.0	1503.6
75°	1167.8	1694.2	1246.4	1275.2	1358.4
77.5°	851.6	1300.9	969.6	1117.9	1185.9
80°	585.4	921.2	791.1	939.4	986.3
82.5°	367.6	608.1	633.8	756.3	804.7
85°	201.2	385.7	494.6	597.5	626.2
87.5°	83.2	232.9	378.2	461.4	485.6
90°	1.5	128.6	255.6	320.7	335.8
92.5°	1.5	98.3	208.7	258.7	269.3
95°	1.5	80.2	175.5	213.3	219.3
97.5°	3.0	63.5	146.7	177.0	183.0
100°	4.5	52.9	122.5	148.2	152.8
102.5°	6.1	42.4	102.9	124.0	128.6
105°	6.1	34.8	86.2	104.4	108.9



TEST NUMBER: P830254

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	10.6	21.2	51.4	65.0	68.1
115°	12.1	18.2	43.9	56.0	59.0
117.5°	12.1	15.1	37.8	46.9	49.9
120°	12.1	13.6	33.3	40.8	42.4
122.5°	12.1	12.1	28.7	36.3	37.8
125°	10.6	12.1	27.2	31.8	33.3
127.5°	12.1	12.1	24.2	28.7	30.3
130°	12.1	13.6	21.2	27.2	27.2
132.5°	13.6	15.1	19.7	25.7	25.7
135°	13.6	15.1	16.6	24.2	25.7
137.5°	15.1	15.1	15.1	22.7	24.2
140°	15.1	15.1	13.6	19.7	21.2
142.5°	13.6	15.1	13.6	18.2	19.7
145°	13.6	15.1	15.1	16.6	18.2
147.5°	15.1	15.1	15.1	15.1	16.6
150°	15.1	15.1	15.1	15.1	15.1
152.5°	15.1	15.1	15.1	15.1	15.1
155°	15.1	16.6	16.6	16.6	15.1
157.5°	15.1	16.6	16.6	16.6	16.6
160°	15.1	16.6	16.6	16.6	16.6
162.5°	16.6	16.6	16.6	16.6	16.6
165°	16.6	16.6	16.6	16.6	16.6
167.5°	16.6	18.2	16.6	16.6	16.6
170°	16.6	16.6	16.6	15.1	15.1
172.5°	16.6	16.6	16.6	15.1	15.1
175°	16.6	16.6	15.1	13.6	13.6
177.5°	18.2	16.6	15.1	13.6	12.1
180°	15.1	15.1	15.1	15.1	15.1



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	7.6	28.7	74.1	89.2	92.3
110°	9.1	24.2	62.0	75.6	78.7



(END OF REPORT)