

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: P829666

Luminaire Tested: **OHBL-100SE-A-UNV-L850-CD**

Issue Date: 5/3/2024



**Test Information**

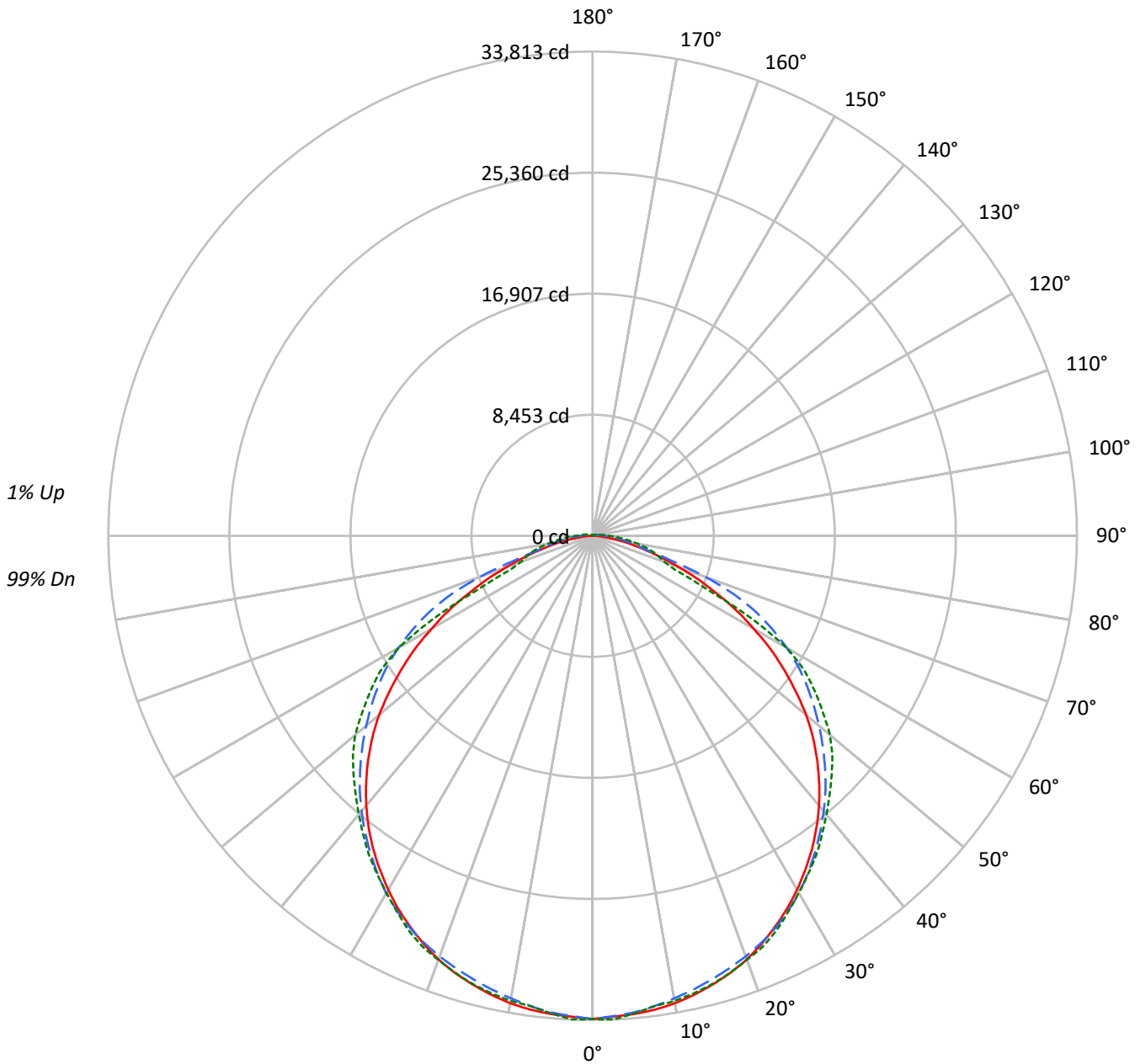
Test Method: LM-79-08  
Report Number: P829666  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-100SE-A-UNV-L850-CD  
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND AISLE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 95377.0 lumens  
Efficiency: N/A  
Efficacy: 161.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 590.1  
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									
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°	53366	53366	53366
5°	53017	52591	52701
10°	52823	51794	52116
15°	52488	51199	51767
20°	52152	50823	51309
25°	51523	50445	50855
30°	50839	49850	49893
35°	50020	48904	49362
40°	48957	47928	48640
45°	47482	46798	48320
50°	45484	45512	47937
55°	42309	44247	46148
60°	38153	42395	42664
65°	32729	38958	27039
70°	26362	30412	19603
75°	19764	18054	19896
80°	13757	15011	18995
85°	7829	13755	17806



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3181.8	3.3
10°-20°	9123.9	9.6
20°-30°	13935.0	14.6
30°-40°	16908.0	17.7
40°-50°	17721.2	18.6
50°-60°	16058.0	16.8
60°-70°	10766.3	11.3
70°-80°	4834.5	5.1
80°-90°	1754.4	1.8
90°-100°	528.1	0.6
100°-110°	249.2	0.3
110°-120°	124.9	0.1
120°-130°	68.9	0.1
130°-140°	47.4	0.0
140°-150°	31.9	0.0
150°-160°	23.7	0.0
160°-170°	15.2	0.0
170°-180°	4.8	0.0
0°-30°	26240.7	27.5
0°-40°	43148.7	45.2
0°-60°	76927.9	80.7
0°-90°	94283.1	98.9
90°-120°	902.1	0.9
90°-150°	1050.2	1.1
90°-180°	1094.0	1.1
0°-180°	95377.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	33744	33744	33744	33744	33744	
5°	33525	33642	33408	33510	33466	###
15°	32437	32310	32081	32364	32403	9158
25°	30134	30002	30212	30490	30402	13890
35°	26709	26772	27045	27333	27226	16694
45°	22166	22527	22947	23532	23606	17076
55°	16311	17097	18263	18995	18951	14560
65°	9573	11071	12569	10607	8661	9538
75°	3767	5465	4020	4113	4382	4116
85°	649	1244	1596	1927	2020	792
90°	5	415	825	1034	1083	39
95°	5	259	566	688	708	7
105°	20	112	278	337	351	23
115°	39	59	142	180	190	36
125°	34	39	88	102	107	34
135°	44	49	54	78	83	35
145°	44	49	49	54	59	29
155°	49	54	54	54	49	23
165°	54	54	54	54	54	15
175°	54	54	49	44	44	5
180°	49	49	49	49	49	



TEST NUMBER: P829666

CATALOG NUMBER: OHBL-100SE-A-UNV-L850-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	33744.5	33744.5	33744.5	33744.5	33744.5
2.5°	33607.8	33749.3	33573.7	33764.0	33812.8
5°	33524.9	33642.0	33407.8	33510.3	33466.3
7.5°	33373.6	33412.7	33134.6	33217.5	33129.7
10°	33149.2	33129.7	32802.8	32963.8	32983.3
12.5°	32817.4	32758.9	32466.1	32710.1	32715.0
15°	32436.8	32310.0	32080.7	32363.7	32402.7
17.5°	31997.7	31831.8	31680.6	32046.5	31988.0
20°	31485.4	31290.2	31261.0	31661.0	31514.7
22.5°	30851.1	30699.8	30768.2	31148.7	31056.0
25°	30133.9	30002.1	30211.9	30490.0	30402.2
27.5°	29377.6	29299.5	29538.6	29753.3	29582.5
30°	28548.1	28504.2	28821.4	28997.0	28782.3
32.5°	27645.5	27660.1	27962.6	28201.7	28001.7
35°	26708.7	26772.1	27045.3	27333.2	27225.9
37.5°	25679.2	25820.7	26093.9	26420.8	26308.6
40°	24591.1	24796.0	25098.5	25493.8	25391.3
42.5°	23415.2	23673.8	24064.2	24503.3	24493.5
45°	22166.2	22527.2	22946.8	23532.3	23605.5
47.5°	20868.3	21273.3	21805.1	22585.8	22698.0
50°	19458.2	19965.6	20629.2	21566.0	21634.3
52.5°	17887.1	18579.9	19458.2	20356.0	20273.0
55°	16311.1	17096.7	18262.8	18994.7	18950.8
57.5°	14740.0	15623.2	17038.1	17560.2	17555.3
60°	12983.5	14100.9	15647.6	16042.8	15652.4
62.5°	11358.7	12559.0	14164.3	13876.4	12539.5
65°	9573.0	11070.9	12568.8	10607.4	8660.6
67.5°	7987.2	9548.6	10675.7	7265.1	6221.0
70°	6391.7	8114.1	8323.9	5391.5	5318.3
72.5°	4976.8	6811.3	5742.8	4615.7	4849.9
75°	3766.7	5464.7	4020.5	4113.2	4381.5
77.5°	2747.0	4196.1	3127.6	3605.7	3825.3
80°	1888.2	2971.4	2551.8	3030.0	3181.2
82.5°	1185.6	1961.4	2044.4	2439.6	2595.7
85°	648.9	1244.2	1595.5	1927.3	2020.0
87.5°	268.4	751.4	1219.8	1488.2	1566.2
90°	4.9	414.7	824.6	1034.4	1083.2
92.5°	4.9	317.1	673.3	834.3	868.5
95°	4.9	258.6	566.0	688.0	707.5
97.5°	9.8	204.9	473.3	570.9	590.4
100°	14.6	170.8	395.2	478.2	492.8
102.5°	19.5	136.6	331.8	400.1	414.7
105°	19.5	112.2	278.1	336.7	351.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	34.2	68.3	165.9	209.8	219.6
115°	39.0	58.6	141.5	180.5	190.3
117.5°	39.0	48.8	122.0	151.3	161.0
120°	39.0	43.9	107.3	131.7	136.6
122.5°	39.0	39.0	92.7	117.1	122.0
125°	34.2	39.0	87.8	102.5	107.3
127.5°	39.0	39.0	78.1	92.7	97.6
130°	39.0	43.9	68.3	87.8	87.8
132.5°	43.9	48.8	63.4	82.9	82.9
135°	43.9	48.8	53.7	78.1	82.9
137.5°	48.8	48.8	48.8	73.2	78.1
140°	48.8	48.8	43.9	63.4	68.3
142.5°	43.9	48.8	43.9	58.6	63.4
145°	43.9	48.8	48.8	53.7	58.6
147.5°	48.8	48.8	48.8	48.8	53.7
150°	48.8	48.8	48.8	48.8	48.8
152.5°	48.8	48.8	48.8	48.8	48.8
155°	48.8	53.7	53.7	53.7	48.8
157.5°	48.8	53.7	53.7	53.7	53.7
160°	48.8	53.7	53.7	53.7	53.7
162.5°	53.7	53.7	53.7	53.7	53.7
165°	53.7	53.7	53.7	53.7	53.7
167.5°	53.7	58.6	53.7	53.7	53.7
170°	53.7	53.7	53.7	48.8	48.8
172.5°	53.7	53.7	53.7	48.8	48.8
175°	53.7	53.7	48.8	43.9	43.9
177.5°	58.6	53.7	48.8	43.9	39.0
180°	48.8	48.8	48.8	48.8	48.8



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	24.4	92.7	239.1	287.9	297.6
110°	29.3	78.1	200.0	244.0	253.7



(END OF REPORT)