

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: P830386

Luminaire Tested: **OHBL-36SE-A-UNV-L850-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830386  
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-36SE-A-UNV-L850-CD  
Description: 36000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND AISLE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

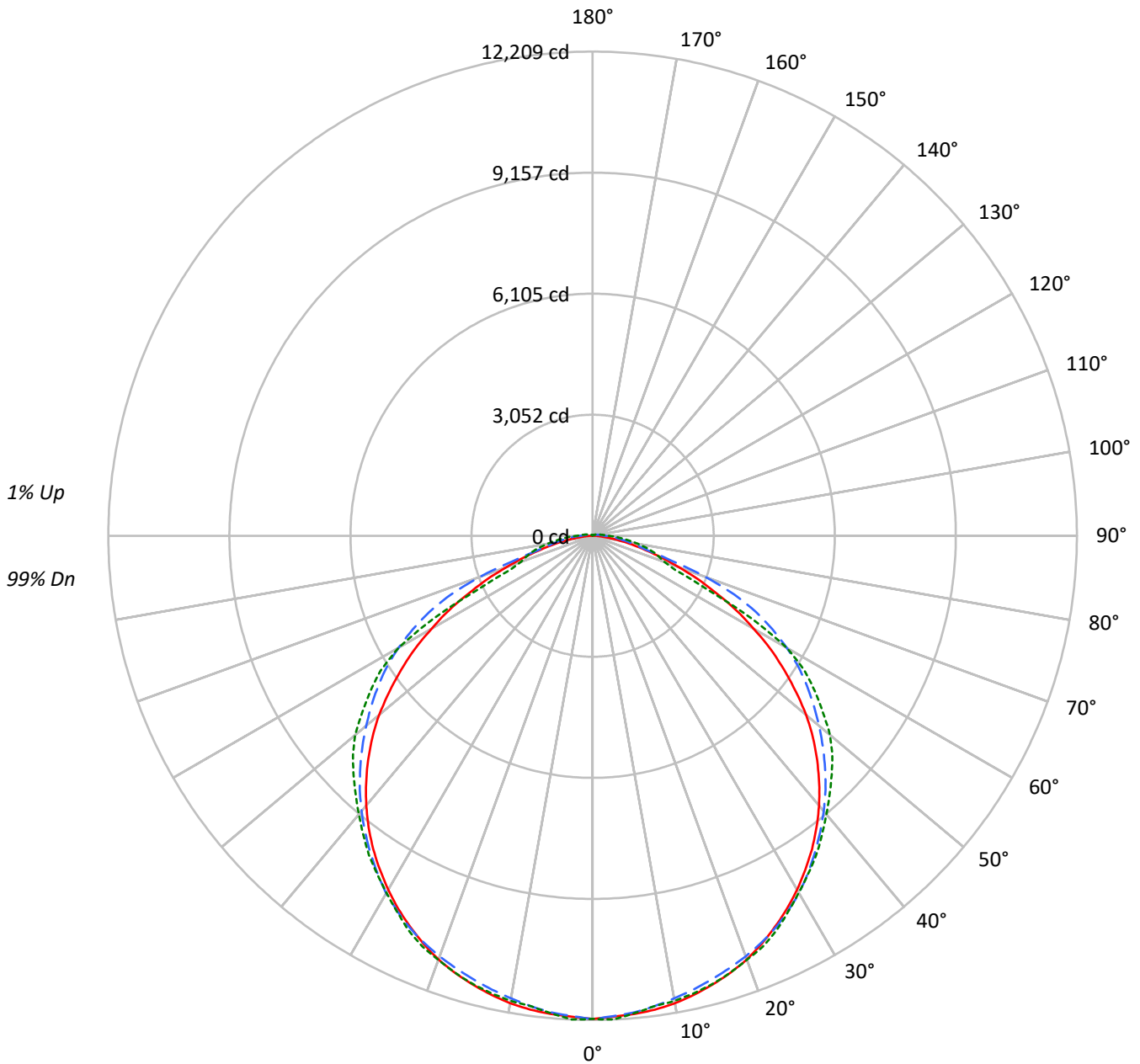
Lumens per Lamp: N/A  
Luminaire Lumens: 34438.0 lumens  
Efficiency: N/A  
Efficacy: 163.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 211  
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°	19269	19269	19269
5°	19143	18989	19029
10°	19073	18702	18818
15°	18952	18486	18692
20°	18831	18351	18526
25°	18604	18214	18362
30°	18356	17999	18015
35°	18061	17658	17823
40°	17677	17305	17562
45°	17145	16898	17447
50°	16423	16433	17309
55°	15277	15976	16663
60°	13776	15308	15405
65°	11817	14067	9763
70°	9519	10981	7078
75°	7137	6519	7184
80°	4967	5420	6859
85°	2827	4966	6429



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1148.9	3.3
10°-20°	3294.4	9.6
20°-30°	5031.5	14.6
30°-40°	6105.0	17.7
40°-50°	6398.6	18.6
50°-60°	5798.1	16.8
60°-70°	3887.4	11.3
70°-80°	1745.6	5.1
80°-90°	633.5	1.8
90°-100°	190.7	0.6
100°-110°	90.0	0.3
110°-120°	45.1	0.1
120°-130°	24.9	0.1
130°-140°	17.1	0.0
140°-150°	11.5	0.0
150°-160°	8.5	0.0
160°-170°	5.5	0.0
170°-180°	1.7	0.0
0°-30°	9474.8	27.5
0°-40°	15579.8	45.2
0°-60°	27776.5	80.7
0°-90°	34043.0	98.9
90°-120°	325.7	0.9
90°-150°	379.2	1.1
90°-180°	395.0	1.1
0°-180°	34438.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	12184	12184	12184	12184	12184	
5°	12105	12147	12063	12100	12084	###
15°	11712	11666	11583	11686	11700	3307
25°	10880	10833	10909	11009	10977	5015
35°	9644	9667	9765	9869	9830	6028
45°	8004	8134	8286	8497	8523	6166
55°	5890	6173	6594	6858	6843	5257
65°	3456	3997	4538	3830	3127	3444
75°	1360	1973	1452	1485	1582	1486
85°	234	449	576	696	729	286
90°	2	150	298	374	391	14
95°	2	93	204	248	256	2
105°	7	40	100	122	127	8
115°	14	21	51	65	69	13
125°	12	14	32	37	39	12
135°	16	18	19	28	30	13
145°	16	18	18	19	21	11
155°	18	19	19	19	18	8
165°	19	19	19	19	19	5
175°	19	19	18	16	16	2
180°	18	18	18	18	18	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	12184.2	12184.2	12184.2	12184.2	12184.2
2.5°	12134.9	12186.0	12122.5	12191.2	12208.9
5°	12104.9	12147.2	12062.6	12099.6	12083.8
7.5°	12050.3	12064.4	11964.0	11993.9	11962.2
10°	11969.3	11962.2	11844.2	11902.3	11909.4
12.5°	11849.5	11828.3	11722.6	11810.7	11812.5
15°	11712.0	11666.2	11583.4	11685.6	11699.7
17.5°	11553.5	11493.6	11439.0	11571.1	11550.0
20°	11368.5	11298.0	11287.5	11431.9	11379.1
22.5°	11139.5	11084.9	11109.5	11246.9	11213.5
25°	10880.5	10832.9	10908.7	11009.1	10977.4
27.5°	10607.4	10579.2	10665.6	10743.1	10681.4
30°	10307.9	10292.1	10406.6	10470.0	10392.5
32.5°	9982.0	9987.3	10096.5	10182.9	10110.6
35°	9643.8	9666.7	9765.3	9869.3	9830.5
37.5°	9272.0	9323.1	9421.8	9539.8	9499.3
40°	8879.2	8953.2	9062.4	9205.1	9168.1
42.5°	8454.6	8548.0	8688.9	8847.5	8843.9
45°	8003.6	8134.0	8285.5	8496.9	8523.3
47.5°	7535.0	7681.2	7873.2	8155.1	8195.6
50°	7025.8	7209.0	7448.6	7786.9	7811.6
52.5°	6458.5	6708.7	7025.8	7350.0	7320.0
55°	5889.5	6173.1	6594.2	6858.5	6842.6
57.5°	5322.2	5641.1	6152.0	6340.5	6338.7
60°	4688.0	5091.4	5649.9	5792.6	5651.7
62.5°	4101.3	4534.7	5114.3	5010.4	4527.7
65°	3456.5	3997.4	4538.2	3830.0	3127.1
67.5°	2884.0	3447.7	3854.7	2623.2	2246.2
70°	2307.9	2929.8	3005.5	1946.7	1920.3
72.5°	1797.0	2459.4	2073.6	1666.6	1751.2
75°	1360.1	1973.1	1451.7	1485.1	1582.0
77.5°	991.9	1515.1	1129.3	1301.9	1381.2
80°	681.8	1072.9	921.4	1094.0	1148.7
82.5°	428.1	708.2	738.2	880.9	937.2
85°	234.3	449.2	576.1	695.9	729.4
87.5°	96.9	271.3	440.4	537.3	565.5
90°	1.8	149.7	297.7	373.5	391.1
92.5°	1.8	114.5	243.1	301.3	313.6
95°	1.8	93.4	204.4	248.4	255.5
97.5°	3.5	74.0	170.9	206.1	213.2
100°	5.3	61.7	142.7	172.7	177.9
102.5°	7.0	49.3	119.8	144.5	149.7
105°	7.0	40.5	100.4	121.6	126.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	12.3	24.7	59.9	75.8	79.3
115°	14.1	21.1	51.1	65.2	68.7
117.5°	14.1	17.6	44.0	54.6	58.1
120°	14.1	15.9	38.8	47.6	49.3
122.5°	14.1	14.1	33.5	42.3	44.0
125°	12.3	14.1	31.7	37.0	38.8
127.5°	14.1	14.1	28.2	33.5	35.2
130°	14.1	15.9	24.7	31.7	31.7
132.5°	15.9	17.6	22.9	29.9	29.9
135°	15.9	17.6	19.4	28.2	29.9
137.5°	17.6	17.6	17.6	26.4	28.2
140°	17.6	17.6	15.9	22.9	24.7
142.5°	15.9	17.6	15.9	21.1	22.9
145°	15.9	17.6	17.6	19.4	21.1
147.5°	17.6	17.6	17.6	17.6	19.4
150°	17.6	17.6	17.6	17.6	17.6
152.5°	17.6	17.6	17.6	17.6	17.6
155°	17.6	19.4	19.4	19.4	17.6
157.5°	17.6	19.4	19.4	19.4	19.4
160°	17.6	19.4	19.4	19.4	19.4
162.5°	19.4	19.4	19.4	19.4	19.4
165°	19.4	19.4	19.4	19.4	19.4
167.5°	19.4	21.1	19.4	19.4	19.4
170°	19.4	19.4	19.4	17.6	17.6
172.5°	19.4	19.4	19.4	17.6	17.6
175°	19.4	19.4	17.6	15.9	15.9
177.5°	21.1	19.4	17.6	15.9	14.1
180°	17.6	17.6	17.6	17.6	17.6



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	8.8	33.5	86.3	103.9	107.5
110°	10.6	28.2	72.2	88.1	91.6



(END OF REPORT)