

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: P830530

Luminaire Tested: **OHBL-48SE-A-UNV-L850-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830530
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-48SE-A-UNV-L850-CD
Description: 48000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

Summary

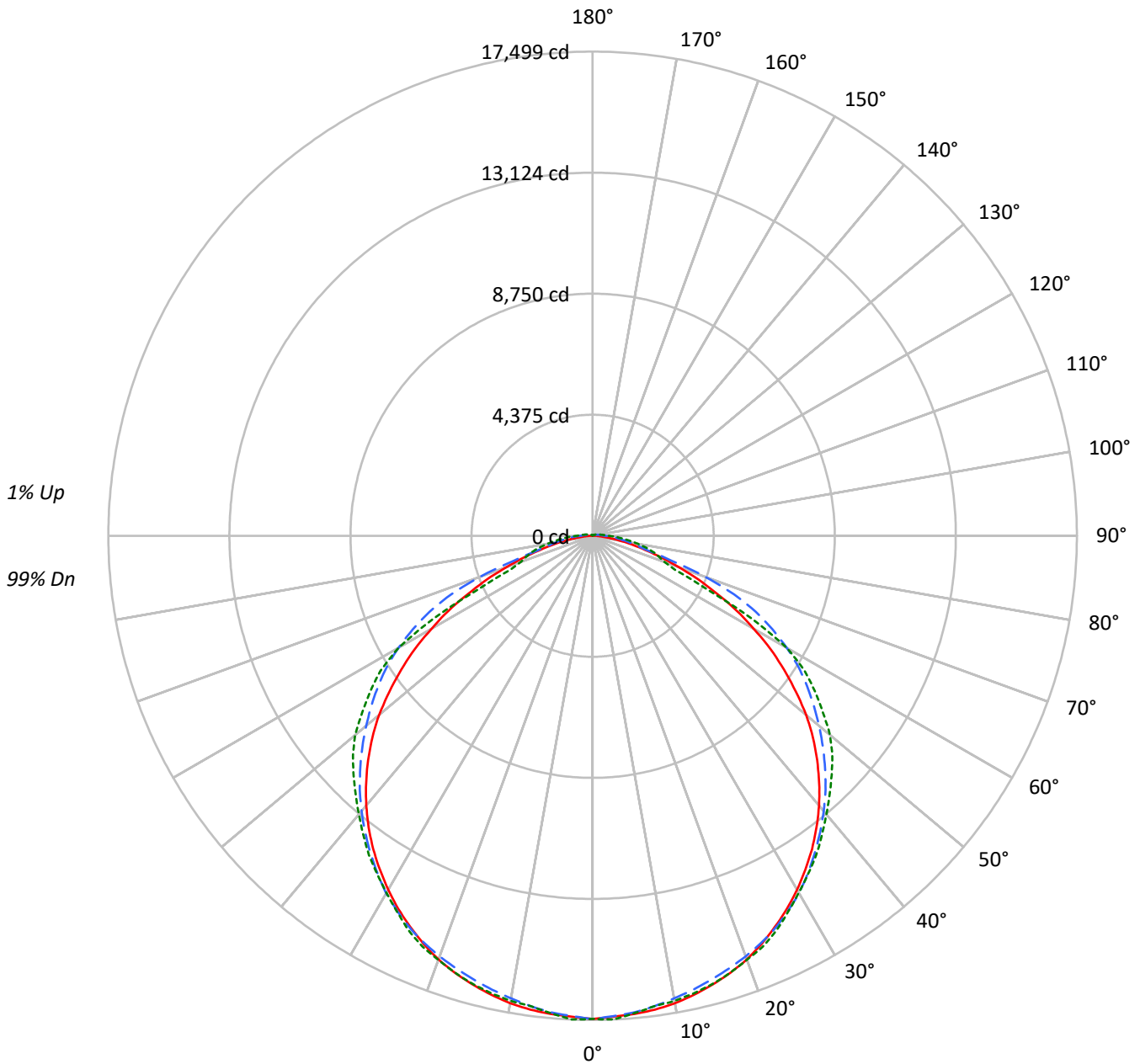
Lumens per Lamp: N/A
Luminaire Lumens: 49360.1 lumens
Efficiency: N/A
Efficacy: 170.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 288.8
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: P830530

CATALOG NUMBER: OHBL-48SE-A-UNV-L850-CD

Luminous Intensity Polar Plot





TEST NUMBER: P830530

CATALOG NUMBER: OHBL-48SE-A-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°	29828	29828	29828
5°	29633	29381	29437
10°	29524	28923	29092
15°	29337	28577	28878
20°	29149	28354	28603
25°	28798	28129	28330
30°	28415	27783	27774
35°	27958	27240	27456
40°	27363	26680	27030
45°	26539	26032	26825
50°	25422	25296	26582
55°	23648	24569	25554
60°	21325	23513	23585
65°	18293	21574	14915
70°	14734	16807	10782
75°	11047	9948	10896
80°	7689	8232	10333
85°	4376	7475	9559



TEST NUMBER: P830530

CATALOG NUMBER: OHBL-48SE-A-UNV-L850-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1646.7	3.3
10°-20°	4721.8	9.6
20°-30°	7211.7	14.6
30°-40°	8750.3	17.7
40°-50°	9171.1	18.6
50°-60°	8310.4	16.8
60°-70°	5571.8	11.3
70°-80°	2502.0	5.1
80°-90°	907.9	1.8
90°-100°	273.3	0.6
100°-110°	129.0	0.3
110°-120°	64.6	0.1
120°-130°	35.7	0.1
130°-140°	24.5	0.0
140°-150°	16.5	0.0
150°-160°	12.3	0.0
160°-170°	7.9	0.0
170°-180°	2.5	0.0
0°-30°	13580.2	27.5
0°-40°	22330.5	45.2
0°-60°	39812.1	80.7
0°-90°	48793.9	98.9
90°-120°	466.9	0.9
90°-150°	543.6	1.1
90°-180°	566.0	1.1
0°-180°	49360.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17464	17464	17464	17464	17464	
5°	17350	17411	17289	17342	17320	###
15°	16787	16721	16602	16749	16769	4740
25°	15595	15527	15635	15779	15734	7188
35°	13822	13855	13997	14146	14090	8639
45°	11472	11658	11876	12179	12216	8837
55°	8441	8848	9452	9830	9808	7535
65°	4954	5730	6505	5490	4482	4936
75°	1949	2828	2081	2129	2268	2130
85°	336	644	826	997	1045	410
90°	2	215	427	535	561	20
95°	2	134	293	356	366	3
105°	10	58	144	174	182	12
115°	20	30	73	93	98	19
125°	18	20	46	53	56	18
135°	23	25	28	40	43	18
145°	23	25	25	28	30	15
155°	25	28	28	28	25	12
165°	28	28	28	28	28	8
175°	28	28	25	23	23	3
180°	25	25	25	25	25	



TEST NUMBER: P830530

CATALOG NUMBER: OHBL-48SE-A-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	17463.6	17463.6	17463.6	17463.6	17463.6
2.5°	17392.9	17466.1	17375.2	17473.7	17499.0
5°	17350.0	17410.6	17289.4	17342.4	17319.7
7.5°	17271.7	17291.9	17148.0	17190.9	17145.4
10°	17155.5	17145.4	16976.3	17059.6	17069.7
12.5°	16983.8	16953.5	16802.0	16928.3	16930.8
15°	16786.9	16721.2	16602.5	16749.0	16769.2
17.5°	16559.6	16473.8	16395.5	16584.9	16554.6
20°	16294.5	16193.5	16178.3	16385.4	16309.6
22.5°	15966.2	15887.9	15923.3	16120.3	16072.3
25°	15595.0	15526.9	15635.4	15779.4	15733.9
27.5°	15203.6	15163.2	15287.0	15398.1	15309.7
30°	14774.4	14751.6	14915.8	15006.7	14895.6
32.5°	14307.2	14314.8	14471.4	14595.1	14491.6
35°	13822.4	13855.2	13996.6	14145.6	14090.1
37.5°	13289.6	13362.8	13504.2	13673.4	13615.4
40°	12726.5	12832.6	12989.1	13193.7	13140.6
42.5°	12118.0	12251.8	12453.8	12681.1	12676.0
45°	11471.5	11658.4	11875.6	12178.6	12216.4
47.5°	10799.9	11009.4	11284.7	11688.7	11746.8
50°	10070.1	10332.7	10676.1	11161.0	11196.3
52.5°	9257.0	9615.6	10070.1	10534.7	10491.8
55°	8441.4	8848.0	9451.5	9830.2	9807.5
57.5°	7628.3	8085.4	8817.7	9087.8	9085.3
60°	6719.3	7297.5	8098.0	8302.5	8100.5
62.5°	5878.4	6499.6	7330.4	7181.4	6489.5
65°	4954.3	5729.5	6504.7	5489.6	4482.1
67.5°	4133.6	4941.6	5524.9	3759.9	3219.5
70°	3307.9	4199.2	4307.8	2790.2	2752.4
72.5°	2575.6	3525.0	2972.0	2388.7	2510.0
75°	1949.4	2828.1	2080.7	2128.7	2267.5
77.5°	1421.6	2171.6	1618.6	1866.1	1979.7
80°	977.2	1537.8	1320.6	1568.1	1646.4
82.5°	613.6	1015.1	1058.0	1262.6	1343.4
85°	335.8	643.9	825.7	997.4	1045.4
87.5°	138.9	388.9	631.3	770.2	810.6
90°	2.5	214.6	426.7	535.3	560.6
92.5°	2.5	164.1	348.5	431.8	449.5
95°	2.5	133.8	292.9	356.0	366.1
97.5°	5.1	106.1	244.9	295.4	305.5
100°	7.6	88.4	204.5	247.5	255.0
102.5°	10.1	70.7	171.7	207.1	214.6
105°	10.1	58.1	143.9	174.2	181.8



TEST NUMBER: P830530

CATALOG NUMBER: OHBL-48SE-A-UNV-L850-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	17.7	35.4	85.9	108.6	113.6
115°	20.2	30.3	73.2	93.4	98.5
117.5°	20.2	25.3	63.1	78.3	83.3
120°	20.2	22.7	55.6	68.2	70.7
122.5°	20.2	20.2	48.0	60.6	63.1
125°	17.7	20.2	45.5	53.0	55.6
127.5°	20.2	20.2	40.4	48.0	50.5
130°	20.2	22.7	35.4	45.5	45.5
132.5°	22.7	25.3	32.8	42.9	42.9
135°	22.7	25.3	27.8	40.4	42.9
137.5°	25.3	25.3	25.3	37.9	40.4
140°	25.3	25.3	22.7	32.8	35.4
142.5°	22.7	25.3	22.7	30.3	32.8
145°	22.7	25.3	25.3	27.8	30.3
147.5°	25.3	25.3	25.3	25.3	27.8
150°	25.3	25.3	25.3	25.3	25.3
152.5°	25.3	25.3	25.3	25.3	25.3
155°	25.3	27.8	27.8	27.8	25.3
157.5°	25.3	27.8	27.8	27.8	27.8
160°	25.3	27.8	27.8	27.8	27.8
162.5°	27.8	27.8	27.8	27.8	27.8
165°	27.8	27.8	27.8	27.8	27.8
167.5°	27.8	30.3	27.8	27.8	27.8
170°	27.8	27.8	27.8	25.3	25.3
172.5°	27.8	27.8	27.8	25.3	25.3
175°	27.8	27.8	25.3	22.7	22.7
177.5°	30.3	27.8	25.3	22.7	20.2
180°	25.3	25.3	25.3	25.3	25.3



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	12.6	48.0	123.7	149.0	154.0
110°	15.2	40.4	103.5	126.3	131.3



(END OF REPORT)