

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: P830528

Luminaire Tested: **OHBL-48SE-A-UNV-L835-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830528
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-L835-CD
Description: 48000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3500K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

Summary

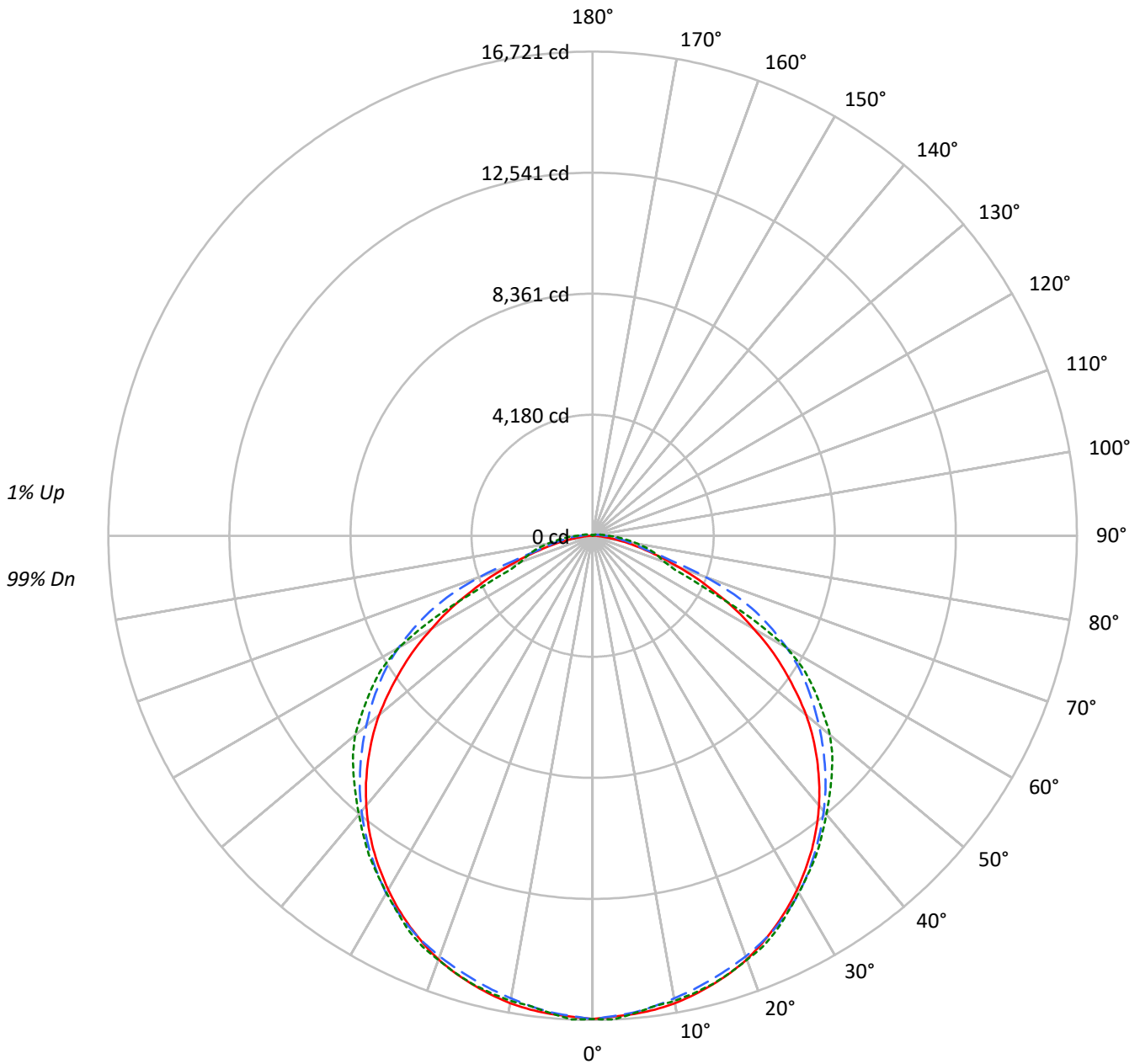
Lumens per Lamp: N/A
Luminaire Lumens: 47165.9 lumens
Efficiency: N/A
Efficacy: 163.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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: P830528

CATALOG NUMBER: OHBL-48SE-A-UNV-L835-CD

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°	28502	28502	28502
5°	28315	28075	28129
10°	28212	27637	27799
15°	28033	27307	27594
20°	27854	27094	27332
25°	27518	26879	27071
30°	27152	26548	26539
35°	26715	26030	26236
40°	26147	25494	25829
45°	25359	24875	25633
50°	24292	24172	25400
55°	22597	23477	24419
60°	20377	22468	22537
65°	17480	20615	14252
70°	14080	16060	10303
75°	10556	9506	10412
80°	7348	7866	9873
85°	4182	7143	9134



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1573.5	3.3
10°-20°	4512.0	9.6
20°-30°	6891.2	14.6
30°-40°	8361.4	17.7
40°-50°	8763.5	18.6
50°-60°	7941.1	16.8
60°-70°	5324.2	11.3
70°-80°	2390.8	5.1
80°-90°	867.6	1.8
90°-100°	261.1	0.6
100°-110°	123.2	0.3
110°-120°	61.8	0.1
120°-130°	34.1	0.1
130°-140°	23.4	0.0
140°-150°	15.7	0.0
150°-160°	11.7	0.0
160°-170°	7.5	0.0
170°-180°	2.4	0.0
0°-30°	12976.6	27.5
0°-40°	21338.0	45.2
0°-60°	38042.5	80.7
0°-90°	46625.0	98.9
90°-120°	446.1	0.9
90°-150°	519.3	1.1
90°-180°	541.0	1.1
0°-180°	47165.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16687	16687	16687	16687	16687	
5°	16579	16637	16521	16572	16550	###
15°	16041	15978	15865	16004	16024	4529
25°	14902	14837	14940	15078	15035	6869
35°	13208	13239	13374	13517	13464	8255
45°	10962	11140	11348	11637	11673	8444
55°	8066	8455	9031	9393	9372	7200
65°	4734	5475	6216	5246	4283	4717
75°	1863	2702	1988	2034	2167	2036
85°	321	615	789	953	999	392
90°	2	205	408	512	536	19
95°	2	128	280	340	350	3
105°	10	56	138	166	174	11
115°	19	29	70	89	94	18
125°	17	19	43	51	53	17
135°	22	24	26	39	41	17
145°	22	24	24	26	29	14
155°	24	26	26	26	24	11
165°	26	26	26	26	26	7
175°	26	26	24	22	22	3
180°	24	24	24	24	24	



TEST NUMBER: P830528

CATALOG NUMBER: OHBL-48SE-A-UNV-L835-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16687.4	16687.4	16687.4	16687.4	16687.4
2.5°	16619.8	16689.8	16602.9	16697.0	16721.2
5°	16578.8	16636.7	16520.9	16571.6	16549.8
7.5°	16504.0	16523.3	16385.8	16426.8	16383.3
10°	16393.0	16383.3	16221.7	16301.3	16311.0
12.5°	16228.9	16200.0	16055.2	16175.8	16178.3
15°	16040.7	15978.0	15864.6	16004.5	16023.8
17.5°	15823.6	15741.5	15666.7	15847.7	15818.7
20°	15570.2	15473.7	15459.2	15657.1	15584.7
22.5°	15256.5	15181.7	15215.5	15403.7	15357.9
25°	14901.9	14836.7	14940.5	15078.0	15034.6
27.5°	14527.9	14489.3	14607.5	14713.6	14629.2
30°	14117.7	14096.0	14252.8	14339.7	14233.5
32.5°	13671.3	13678.5	13828.1	13946.4	13847.4
35°	13208.0	13239.4	13374.5	13516.9	13463.8
37.5°	12698.9	12768.9	12904.0	13065.7	13010.2
40°	12160.8	12262.2	12411.8	12607.2	12556.5
42.5°	11579.3	11707.2	11900.2	12117.4	12112.6
45°	10961.6	11140.2	11347.7	11637.2	11673.4
47.5°	10319.8	10520.1	10783.1	11169.1	11224.6
50°	9622.5	9873.4	10201.6	10664.9	10698.6
52.5°	8845.6	9188.2	9622.5	10066.5	10025.5
55°	8066.2	8454.7	9031.4	9393.3	9371.6
57.5°	7289.3	7726.0	8425.7	8683.9	8681.5
60°	6420.6	6973.2	7738.1	7933.5	7740.5
62.5°	5617.1	6210.7	7004.5	6862.2	6201.1
65°	4734.0	5474.8	6215.5	5245.6	4282.8
67.5°	3949.9	4722.0	5279.3	3592.8	3076.4
70°	3160.9	4012.6	4116.3	2666.2	2630.0
72.5°	2461.1	3368.4	2839.9	2282.6	2398.4
75°	1862.7	2702.4	1988.2	2034.0	2166.8
77.5°	1358.4	2075.1	1546.6	1783.1	1891.7
80°	933.8	1469.4	1261.9	1498.4	1573.2
82.5°	586.3	970.0	1011.0	1206.4	1283.6
85°	320.9	615.3	789.0	953.1	998.9
87.5°	132.7	371.6	603.2	735.9	774.5
90°	2.4	205.1	407.8	511.5	535.7
92.5°	2.4	156.8	333.0	412.6	429.5
95°	2.4	127.9	279.9	340.2	349.9
97.5°	4.8	101.3	234.0	282.3	292.0
100°	7.2	84.5	195.4	236.5	243.7
102.5°	9.7	67.6	164.1	197.9	205.1
105°	9.7	55.5	137.5	166.5	173.7



TEST NUMBER: P830528

CATALOG NUMBER: OHBL-48SE-A-UNV-L835-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	16.9	33.8	82.0	103.8	108.6
115°	19.3	29.0	70.0	89.3	94.1
117.5°	19.3	24.1	60.3	74.8	79.6
120°	19.3	21.7	53.1	65.1	67.6
122.5°	19.3	19.3	45.8	57.9	60.3
125°	16.9	19.3	43.4	50.7	53.1
127.5°	19.3	19.3	38.6	45.8	48.3
130°	19.3	21.7	33.8	43.4	43.4
132.5°	21.7	24.1	31.4	41.0	41.0
135°	21.7	24.1	26.5	38.6	41.0
137.5°	24.1	24.1	24.1	36.2	38.6
140°	24.1	24.1	21.7	31.4	33.8
142.5°	21.7	24.1	21.7	29.0	31.4
145°	21.7	24.1	24.1	26.5	29.0
147.5°	24.1	24.1	24.1	24.1	26.5
150°	24.1	24.1	24.1	24.1	24.1
152.5°	24.1	24.1	24.1	24.1	24.1
155°	24.1	26.5	26.5	26.5	24.1
157.5°	24.1	26.5	26.5	26.5	26.5
160°	24.1	26.5	26.5	26.5	26.5
162.5°	26.5	26.5	26.5	26.5	26.5
165°	26.5	26.5	26.5	26.5	26.5
167.5°	26.5	29.0	26.5	26.5	26.5
170°	26.5	26.5	26.5	24.1	24.1
172.5°	26.5	26.5	26.5	24.1	24.1
175°	26.5	26.5	24.1	21.7	21.7
177.5°	29.0	26.5	24.1	21.7	19.3
180°	24.1	24.1	24.1	24.1	24.1



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	12.1	45.8	118.2	142.4	147.2
110°	14.5	38.6	98.9	120.6	125.5



(END OF REPORT)