

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: P830524

Luminaire Tested: **OHBL-48SE-A-UNV-L735-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830524
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-L735-CD
Description: 48000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

Summary

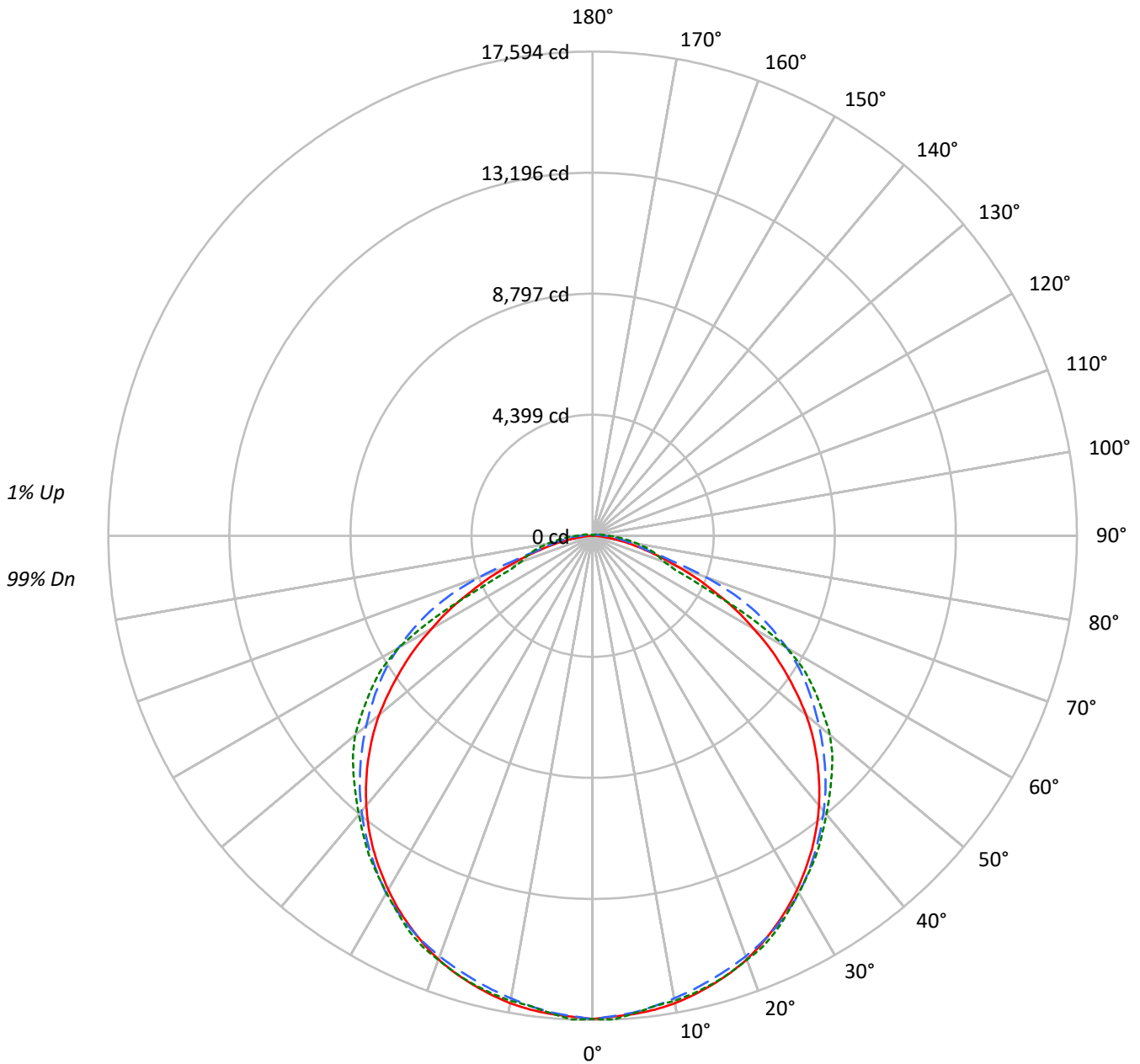
Lumens per Lamp: N/A
Luminaire Lumens: 49627.0 lumens
Efficiency: N/A
Efficacy: 171.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 288.8
Input Voltage (V): NR
Input Current (Ain): 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°	29989	29989	29989
5°	29793	29540	29597
10°	29684	29079	29249
15°	29495	28732	29034
20°	29307	28508	28758
25°	28954	28281	28483
30°	28569	27933	27924
35°	28109	27388	27604
40°	27511	26824	27176
45°	26683	26173	26970
50°	25560	25433	26726
55°	23776	24702	25692
60°	21440	23640	23713
65°	18392	21690	14996
70°	14814	16898	10840
75°	11106	10001	10955
80°	7731	8277	10389
85°	4400	7516	9610



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1655.6	3.3
10°-20°	4747.4	9.6
20°-30°	7250.7	14.6
30°-40°	8797.6	17.7
40°-50°	9220.8	18.6
50°-60°	8355.4	16.8
60°-70°	5602.0	11.3
70°-80°	2515.5	5.1
80°-90°	912.9	1.8
90°-100°	274.8	0.6
100°-110°	129.7	0.3
110°-120°	65.0	0.1
120°-130°	35.8	0.1
130°-140°	24.6	0.0
140°-150°	16.6	0.0
150°-160°	12.3	0.0
160°-170°	7.9	0.0
170°-180°	2.5	0.0
0°-30°	13653.7	27.5
0°-40°	22451.3	45.2
0°-60°	40027.5	80.7
0°-90°	49057.8	98.9
90°-120°	469.4	0.9
90°-150°	546.4	1.1
90°-180°	569.0	1.1
0°-180°	49627.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17558	17558	17558	17558	17558	
5°	17444	17505	17383	17436	17413	###
15°	16878	16812	16692	16840	16860	4765
25°	15679	15611	15720	15865	15819	7227
35°	13897	13930	14072	14222	14166	8686
45°	11534	11722	11940	12244	12282	8885
55°	8487	8896	9503	9883	9860	7576
65°	4981	5760	6540	5519	4506	4963
75°	1960	2843	2092	2140	2280	2142
85°	338	647	830	1003	1051	412
90°	2	216	429	538	564	20
95°	2	135	294	358	368	3
105°	10	58	145	175	183	12
115°	20	30	74	94	99	19
125°	18	20	46	53	56	18
135°	23	25	28	41	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	



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CATALOG NUMBER: OHBL-48SE-A-UNV-L735-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	17558.1	17558.1	17558.1	17558.1	17558.1
2.5°	17487.0	17560.6	17469.2	17568.2	17593.6
5°	17443.8	17504.8	17382.9	17436.2	17413.4
7.5°	17365.1	17385.4	17240.7	17283.9	17238.2
10°	17248.3	17238.2	17068.1	17151.9	17162.0
12.5°	17075.7	17045.2	16892.9	17019.9	17022.4
15°	16877.7	16811.7	16692.4	16839.6	16859.9
17.5°	16649.2	16562.9	16484.2	16674.6	16644.1
20°	16382.6	16281.1	16265.8	16474.0	16397.9
22.5°	16052.6	15973.9	16009.4	16207.5	16159.2
25°	15679.4	15610.8	15720.0	15864.7	15819.0
27.5°	15285.9	15245.3	15369.7	15481.4	15392.5
30°	14854.3	14831.4	14996.5	15087.9	14976.2
32.5°	14384.6	14392.2	14549.6	14674.0	14570.0
35°	13897.2	13930.2	14072.4	14222.1	14166.3
37.5°	13361.5	13435.1	13577.3	13747.4	13689.0
40°	12795.4	12902.0	13059.4	13265.0	13211.7
42.5°	12183.5	12318.1	12521.2	12749.7	12744.6
45°	11533.6	11721.5	11939.8	12244.4	12282.5
47.5°	10858.3	11069.0	11345.7	11751.9	11810.3
50°	10124.6	10388.6	10733.9	11221.3	11256.9
52.5°	9307.1	9667.6	10124.6	10591.7	10548.6
55°	8487.1	8895.8	9502.6	9883.4	9860.5
57.5°	7669.6	8129.1	8865.4	9137.0	9134.5
60°	6755.6	7337.0	8141.8	8347.4	8144.3
62.5°	5910.2	6534.8	7370.0	7220.2	6524.6
65°	4981.1	5760.4	6539.8	5519.3	4506.3
67.5°	4156.0	4968.4	5554.8	3780.2	3236.9
70°	3325.8	4222.0	4331.1	2805.3	2767.3
72.5°	2589.5	3544.1	2988.1	2401.7	2523.5
75°	1959.9	2843.4	2091.9	2140.2	2279.8
77.5°	1429.3	2183.3	1627.3	1876.1	1990.4
80°	982.5	1546.1	1327.8	1576.6	1655.3
82.5°	616.9	1020.6	1063.7	1269.4	1350.6
85°	337.7	647.4	830.2	1002.8	1051.0
87.5°	139.6	391.0	634.7	774.3	814.9
90°	2.5	215.8	429.1	538.2	563.6
92.5°	2.5	165.0	350.3	434.1	451.9
95°	2.5	134.6	294.5	358.0	368.1
97.5°	5.1	106.6	246.3	297.0	307.2
100°	7.6	88.9	205.6	248.8	256.4
102.5°	10.2	71.1	172.6	208.2	215.8
105°	10.2	58.4	144.7	175.2	182.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	17.8	35.5	86.3	109.2	114.2
115°	20.3	30.5	73.6	93.9	99.0
117.5°	20.3	25.4	63.5	78.7	83.8
120°	20.3	22.8	55.9	68.5	71.1
122.5°	20.3	20.3	48.2	60.9	63.5
125°	17.8	20.3	45.7	53.3	55.9
127.5°	20.3	20.3	40.6	48.2	50.8
130°	20.3	22.8	35.5	45.7	45.7
132.5°	22.8	25.4	33.0	43.2	43.2
135°	22.8	25.4	27.9	40.6	43.2
137.5°	25.4	25.4	25.4	38.1	40.6
140°	25.4	25.4	22.8	33.0	35.5
142.5°	22.8	25.4	22.8	30.5	33.0
145°	22.8	25.4	25.4	27.9	30.5
147.5°	25.4	25.4	25.4	25.4	27.9
150°	25.4	25.4	25.4	25.4	25.4
152.5°	25.4	25.4	25.4	25.4	25.4
155°	25.4	27.9	27.9	27.9	25.4
157.5°	25.4	27.9	27.9	27.9	27.9
160°	25.4	27.9	27.9	27.9	27.9
162.5°	27.9	27.9	27.9	27.9	27.9
165°	27.9	27.9	27.9	27.9	27.9
167.5°	27.9	30.5	27.9	27.9	27.9
170°	27.9	27.9	27.9	25.4	25.4
172.5°	27.9	27.9	27.9	25.4	25.4
175°	27.9	27.9	25.4	22.8	22.8
177.5°	30.5	27.9	25.4	22.8	20.3
180°	25.4	25.4	25.4	25.4	25.4



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	12.7	48.2	124.4	149.8	154.9
110°	15.2	40.6	104.1	126.9	132.0



(END OF REPORT)