

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: P830552

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830552  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-48SE-MFL-UNV-L835-CD  
Description: 48000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3500K LEDS AND MEDIUM FROSTED LENS  
Light Source: -  
Ballast/Driver: -

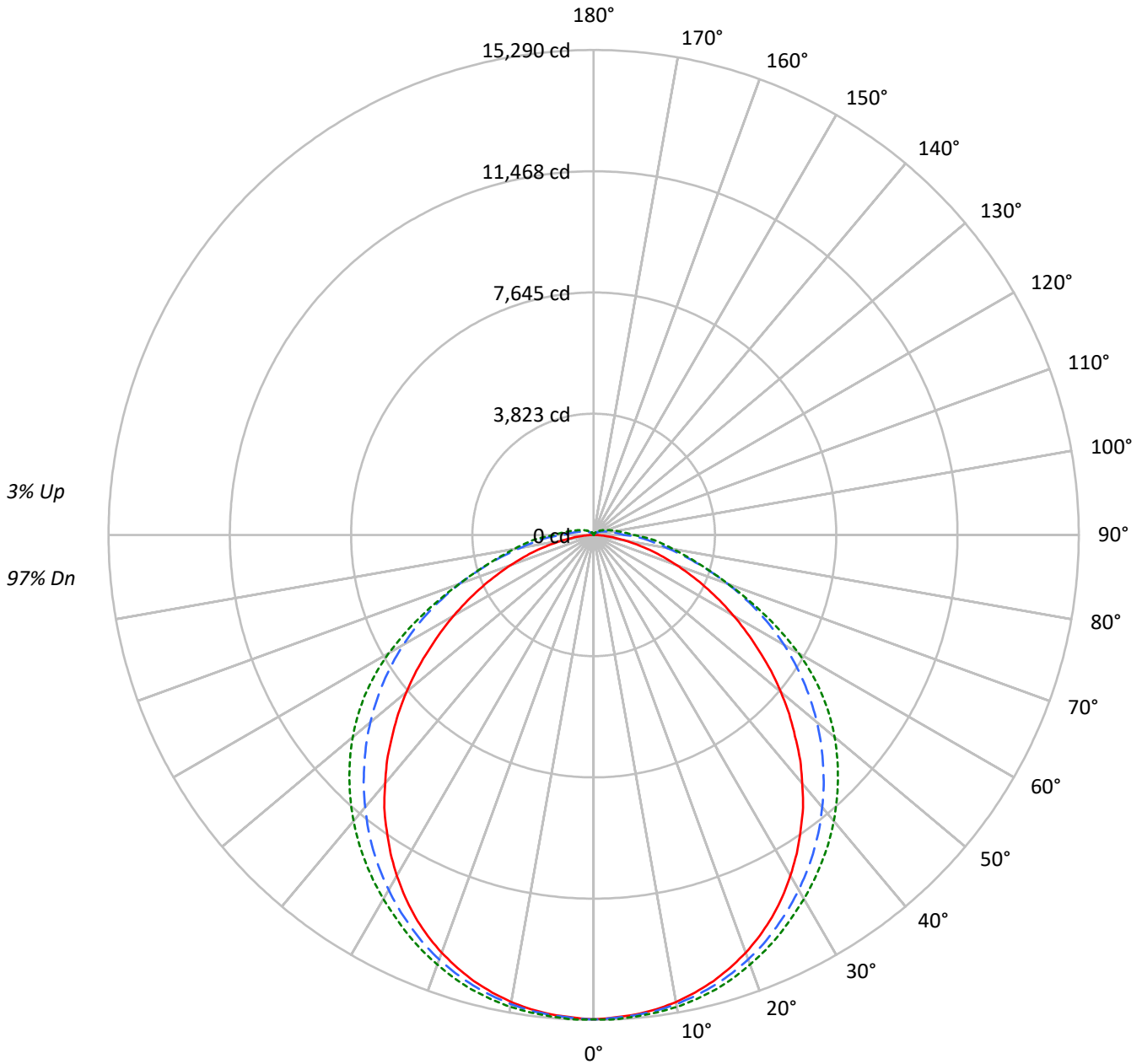
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 45715.0 lumens  
Efficiency: N/A  
Efficacy: 158.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38  
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<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				20				
RC	80				70				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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	97
1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	86	84	82	80
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	75	72	68	66
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	67	62	58	56
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	59	54	50	47
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	53	48	43	41
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	48	43	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	44	38	34	32
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	41	35	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	37	32	27	25
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	35	29	25	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	26089	26089	26089
5°	25922	25831	25905
10°	25741	25591	25752
15°	25453	25307	25558
20°	25071	24963	25280
25°	24562	24535	25000
30°	23856	24072	24717
35°	23001	23580	24469
40°	21975	23013	24223
45°	20765	22396	23912
50°	19441	21772	23538
55°	17814	21010	22920
60°	16147	20113	21715
65°	14328	18970	19755
70°	12355	17517	17632
75°	10359	15836	16168
80°	7854	14588	15930
85°	4969	15026	17570



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1447.4	3.2
10°-20°	4152.3	9.1
20°-30°	6279.6	13.7
30°-40°	7538.8	16.5
40°-50°	7786.3	17.0
50°-60°	7005.3	15.3
60°-70°	5276.9	11.5
70°-80°	3186.4	7.0
80°-90°	1558.4	3.4
90°-100°	656.0	1.4
100°-110°	374.5	0.8
110°-120°	219.8	0.5
120°-130°	124.3	0.3
130°-140°	65.5	0.1
140°-150°	31.8	0.1
150°-160°	11.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	11879.3	26.0
0°-40°	19418.1	42.5
0°-60°	34209.6	74.8
0°-90°	44231.4	96.8
90°-120°	1250.2	2.7
90°-150°	1471.8	3.2
90°-180°	1484.0	3.2
0°-180°	45715.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	15275	15275	15275	15275	15275	
5°	15178	15219	15200	15260	15241	###
15°	14565	14636	14703	14826	14841	4106
25°	13301	13447	13637	13850	13884	6118
35°	11372	11637	12116	12482	12557	7109
45°	8976	9428	10217	10774	10890	6929
55°	6359	7017	8082	8692	8796	5701
65°	3880	4673	5720	6004	5936	3855
75°	1828	2624	3312	3398	3364	1950
85°	381	1006	1660	1888	1922	441
90°	0	392	950	1196	1245	24
95°	19	265	710	905	938	16
105°	26	153	411	538	561	26
115°	30	86	254	340	355	31
125°	30	41	153	221	232	27
135°	26	34	78	135	150	21
145°	37	34	37	67	78	22
155°	37	41	37	34	37	12
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	15274.8	15274.8	15274.8	15274.8	15274.8
2.5°	15230.0	15267.4	15244.9	15293.5	15289.8
5°	15177.6	15218.8	15200.1	15259.9	15241.2
7.5°	15087.9	15132.8	15129.0	15196.3	15188.9
10°	14957.1	15005.7	15020.6	15110.3	15110.3
12.5°	14777.6	14841.2	14878.6	14987.0	14990.7
15°	14564.6	14635.6	14702.9	14826.2	14841.2
17.5°	14306.6	14396.3	14489.8	14631.8	14650.5
20°	14015.0	14116.0	14243.1	14392.6	14415.0
22.5°	13678.6	13798.2	13962.7	14138.4	14164.6
25°	13301.0	13446.8	13637.4	13850.5	13884.2
27.5°	12871.1	13039.3	13297.3	13536.5	13566.4
30°	12403.8	12601.9	12923.4	13207.5	13256.1
32.5°	11910.3	12138.4	12534.6	12852.4	12919.7
35°	11372.0	11637.4	12115.9	12482.3	12557.1
37.5°	10841.2	11132.8	11674.8	12093.5	12183.2
40°	10220.6	10583.2	11203.8	11667.3	11775.8
42.5°	9637.4	10030.0	10732.8	11237.4	11342.1
45°	8975.7	9428.1	10216.9	10773.9	10889.8
47.5°	8355.2	8844.9	9719.7	10295.4	10415.0
50°	7701.0	8239.3	9188.8	9790.7	9914.1
52.5°	7046.8	7626.2	8639.3	9263.6	9379.5
55°	6358.9	7016.9	8082.3	8691.6	8796.3
57.5°	5719.7	6415.0	7510.3	8089.8	8153.3
60°	5087.9	5809.4	6927.1	7435.5	7458.0
62.5°	4471.0	5229.9	6329.0	6732.7	6702.8
65°	3880.4	4672.9	5719.7	6003.8	5936.5
67.5°	3312.2	4130.9	5095.4	5278.5	5188.8
70°	2773.8	3603.8	4489.7	4583.2	4501.0
72.5°	2299.1	3102.8	3876.7	3955.2	3895.3
75°	1828.0	2624.3	3312.2	3398.1	3364.5
77.5°	1386.9	2160.8	2792.5	2904.7	2912.2
80°	998.1	1738.3	2340.2	2515.9	2538.3
82.5°	657.9	1349.5	1962.6	2186.9	2220.6
85°	381.3	1005.6	1659.8	1887.9	1921.5
87.5°	164.5	725.2	1334.6	1540.2	1581.3
90°	0.0	392.5	949.5	1196.3	1244.9
92.5°	11.2	325.2	815.0	1039.3	1080.4
95°	18.7	265.4	710.3	904.7	938.3
97.5°	22.4	224.3	616.8	788.8	822.4
100°	22.4	194.4	534.6	691.6	721.5
102.5°	22.4	172.0	467.3	605.6	631.8
105°	26.2	153.3	411.2	538.3	560.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	29.9	100.9	284.1	381.3	396.3
115°	29.9	86.0	254.2	340.2	355.1
117.5°	33.6	74.8	224.3	306.5	317.8
120°	33.6	63.6	198.1	272.9	287.9
122.5°	33.6	52.3	175.7	246.7	257.9
125°	29.9	41.1	153.3	220.6	231.8
127.5°	26.2	33.6	130.8	198.1	209.3
130°	26.2	29.9	112.2	175.7	186.9
132.5°	26.2	33.6	93.5	153.3	168.2
135°	26.2	33.6	78.5	134.6	149.5
137.5°	26.2	33.6	63.6	115.9	130.8
140°	29.9	33.6	52.3	97.2	112.2
142.5°	33.6	33.6	41.1	82.2	93.5
145°	37.4	33.6	37.4	67.3	78.5
147.5°	37.4	37.4	37.4	52.3	63.6
150°	37.4	41.1	37.4	41.1	52.3
152.5°	37.4	41.1	37.4	33.6	41.1
155°	37.4	41.1	37.4	33.6	37.4
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	26.2	134.6	362.6	478.5	497.2
110°	26.2	119.6	321.5	426.2	444.9



(END OF REPORT)