

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: P830536

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

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P830536
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-MCL-UNV-L735-CD
Description: 48000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

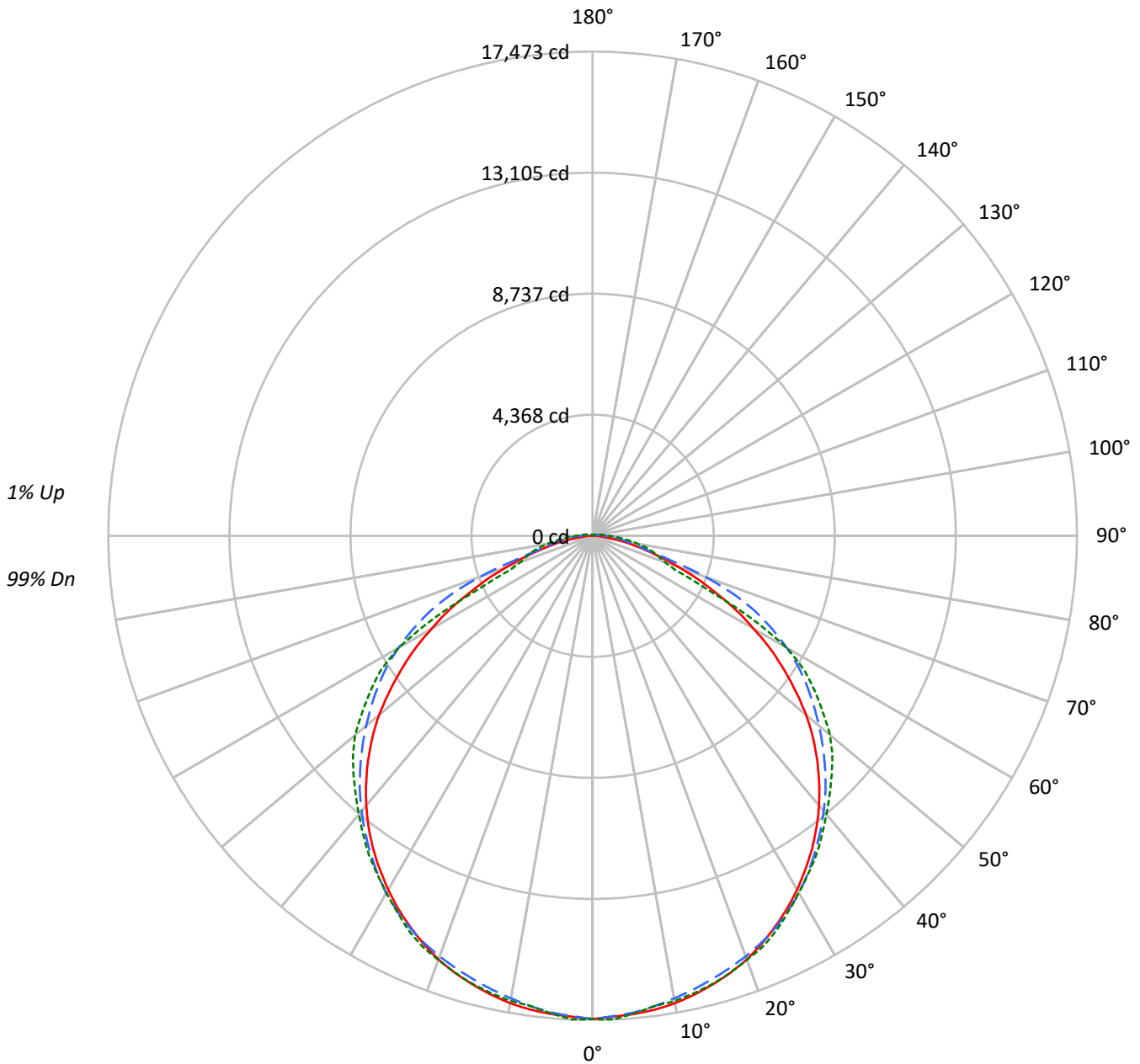
Lumens per Lamp: N/A
Luminaire Lumens: 49286.0 lumens
Efficiency: N/A
Efficacy: 170.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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

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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°	29783	29783	29783
5°	29588	29337	29393
10°	29480	28880	29048
15°	29293	28534	28835
20°	29106	28312	28560
25°	28755	28087	28288
30°	28372	27741	27732
35°	27916	27200	27415
40°	27322	26640	26990
45°	26499	25993	26785
50°	25384	25258	26542
55°	23613	24532	25516
60°	21293	23478	23550
65°	18265	21542	14892
70°	14712	16782	10766
75°	11030	9933	10880
80°	7677	8220	10317
85°	4369	7464	9544



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1644.2	3.3
10°-20°	4714.8	9.6
20°-30°	7200.9	14.6
30°-40°	8737.2	17.7
40°-50°	9157.4	18.6
50°-60°	8298.0	16.8
60°-70°	5563.5	11.3
70°-80°	2498.3	5.1
80°-90°	906.6	1.8
90°-100°	272.9	0.6
100°-110°	128.8	0.3
110°-120°	64.5	0.1
120°-130°	35.6	0.1
130°-140°	24.5	0.0
140°-150°	16.5	0.0
150°-160°	12.2	0.0
160°-170°	7.9	0.0
170°-180°	2.5	0.0
0°-30°	13559.9	27.5
0°-40°	22297.0	45.2
0°-60°	39752.4	80.7
0°-90°	48720.7	98.9
90°-120°	466.2	0.9
90°-150°	542.7	1.1
90°-180°	565.0	1.1
0°-180°	49286.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17437	17437	17437	17437	17437	
5°	17324	17384	17264	17316	17294	###
15°	16762	16696	16578	16724	16744	4733
25°	15572	15504	15612	15756	15710	7178
35°	13802	13834	13976	14124	14069	8626
45°	11454	11641	11858	12160	12198	8824
55°	8429	8835	9437	9816	9793	7524
65°	4947	5721	6495	5481	4475	4929
75°	1946	2824	2078	2126	2264	2127
85°	335	643	824	996	1044	409
90°	2	214	426	534	560	20
95°	2	134	292	356	366	3
105°	10	58	144	174	182	12
115°	20	30	73	93	98	19
125°	18	20	45	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	17437.4	17437.4	17437.4	17437.4	17437.4
2.5°	17366.8	17439.9	17349.2	17447.5	17472.7
5°	17324.0	17384.5	17263.5	17316.4	17293.7
7.5°	17245.8	17266.0	17122.3	17165.1	17119.7
10°	17129.8	17119.7	16950.8	17034.0	17044.1
12.5°	16958.4	16928.1	16776.8	16902.9	16905.4
15°	16761.7	16696.2	16577.7	16723.9	16744.1
17.5°	16534.8	16449.1	16370.9	16560.0	16529.8
20°	16270.1	16169.2	16154.1	16360.8	16285.2
22.5°	15942.3	15864.1	15899.4	16096.1	16048.2
25°	15571.7	15503.6	15612.0	15755.7	15710.3
27.5°	15180.8	15140.5	15264.1	15375.0	15286.7
30°	14752.2	14729.5	14893.4	14984.2	14873.2
32.5°	14285.8	14293.3	14449.7	14573.2	14469.8
35°	13801.7	13834.5	13975.7	14124.4	14068.9
37.5°	13269.7	13342.8	13484.0	13652.9	13594.9
40°	12707.4	12813.3	12969.7	13173.9	13120.9
42.5°	12099.8	12233.4	12435.1	12662.1	12657.0
45°	11454.3	11640.9	11857.8	12160.3	12198.1
47.5°	10783.7	10992.9	11267.8	11671.2	11729.2
50°	10055.0	10317.2	10660.1	11144.2	11179.5
52.5°	9243.1	9601.2	10055.0	10518.9	10476.1
55°	8428.8	8834.7	9437.3	9815.5	9792.8
57.5°	7616.9	8073.3	8804.4	9074.2	9071.7
60°	6709.2	7286.6	8085.9	8290.1	8088.4
62.5°	5869.6	6489.9	7319.4	7170.6	6479.8
65°	4946.8	5720.9	6494.9	5481.3	4475.3
67.5°	4127.4	4934.2	5516.6	3754.2	3214.7
70°	3302.9	4193.0	4301.4	2786.1	2748.2
72.5°	2571.7	3519.8	2967.6	2385.2	2506.2
75°	1946.5	2823.9	2077.6	2125.5	2264.1
77.5°	1419.5	2168.3	1616.2	1863.3	1976.7
80°	975.7	1535.5	1318.6	1565.7	1643.9
82.5°	612.7	1013.6	1056.4	1260.7	1341.3
85°	335.3	642.9	824.5	995.9	1043.8
87.5°	138.7	388.3	630.3	769.0	809.3
90°	2.5	214.3	426.1	534.5	559.7
92.5°	2.5	163.9	347.9	431.1	448.8
95°	2.5	133.6	292.5	355.5	365.6
97.5°	5.0	105.9	244.6	295.0	305.1
100°	7.6	88.2	204.2	247.1	254.7
102.5°	10.1	70.6	171.4	206.7	214.3
105°	10.1	58.0	143.7	174.0	181.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	17.6	35.3	85.7	108.4	113.5
115°	20.2	30.3	73.1	93.3	98.3
117.5°	20.2	25.2	63.0	78.2	83.2
120°	20.2	22.7	55.5	68.1	70.6
122.5°	20.2	20.2	47.9	60.5	63.0
125°	17.6	20.2	45.4	52.9	55.5
127.5°	20.2	20.2	40.3	47.9	50.4
130°	20.2	22.7	35.3	45.4	45.4
132.5°	22.7	25.2	32.8	42.9	42.9
135°	22.7	25.2	27.7	40.3	42.9
137.5°	25.2	25.2	25.2	37.8	40.3
140°	25.2	25.2	22.7	32.8	35.3
142.5°	22.7	25.2	22.7	30.3	32.8
145°	22.7	25.2	25.2	27.7	30.3
147.5°	25.2	25.2	25.2	25.2	27.7
150°	25.2	25.2	25.2	25.2	25.2
152.5°	25.2	25.2	25.2	25.2	25.2
155°	25.2	27.7	27.7	27.7	25.2
157.5°	25.2	27.7	27.7	27.7	27.7
160°	25.2	27.7	27.7	27.7	27.7
162.5°	27.7	27.7	27.7	27.7	27.7
165°	27.7	27.7	27.7	27.7	27.7
167.5°	27.7	30.3	27.7	27.7	27.7
170°	27.7	27.7	27.7	25.2	25.2
172.5°	27.7	27.7	27.7	25.2	25.2
175°	27.7	27.7	25.2	22.7	22.7
177.5°	30.3	27.7	25.2	22.7	20.2
180°	25.2	25.2	25.2	25.2	25.2



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	12.6	47.9	123.5	148.8	153.8
110°	15.1	40.3	103.4	126.1	131.1



(END OF REPORT)