

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: P829684

Luminaire Tested: **OHBL-100SE-MFL-UNV-L735-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829684
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-100SE-MFL-UNV-L735-CD
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

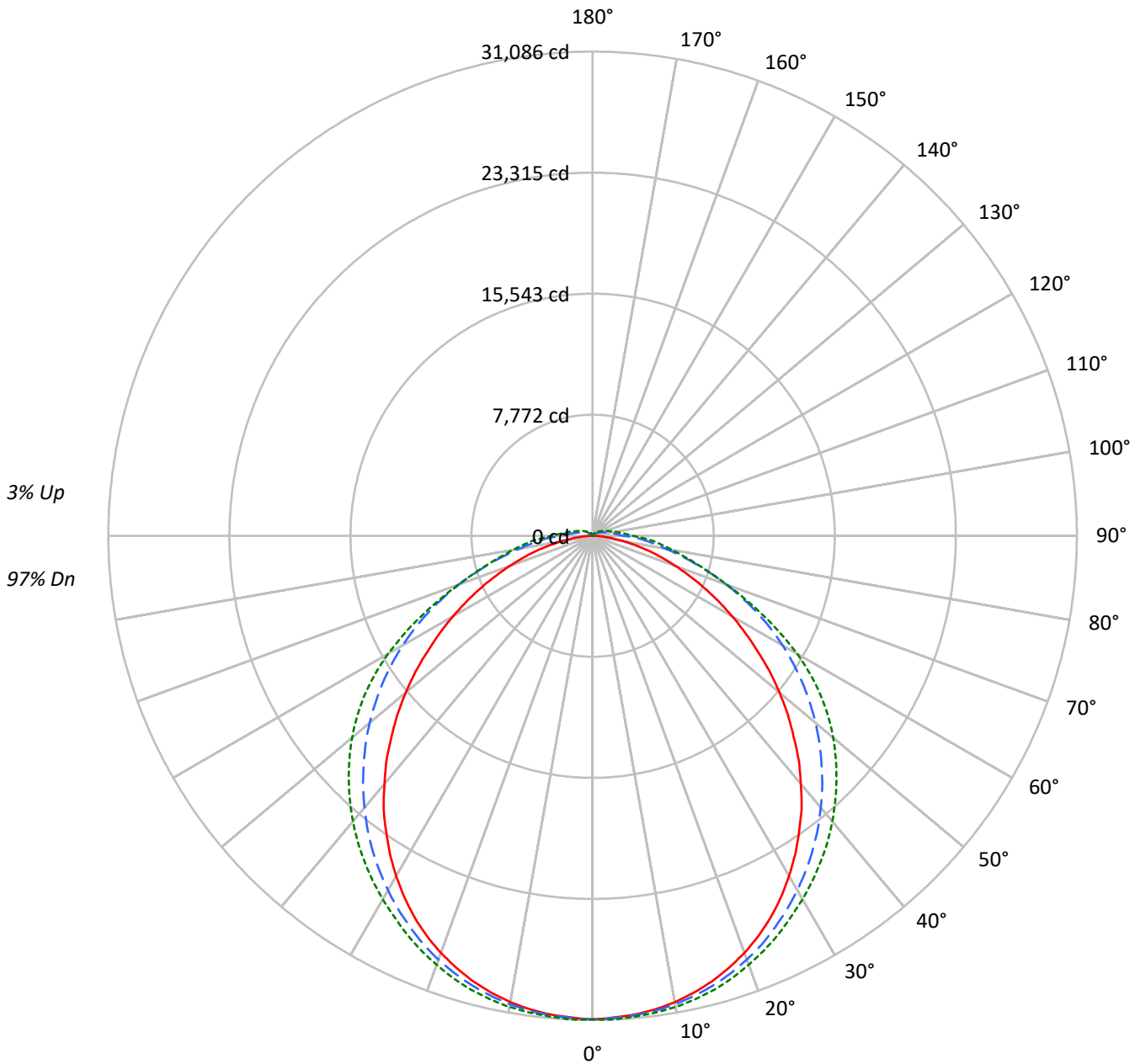
Lumens per Lamp: N/A
Luminaire Lumens: 92942.9 lumens
Efficiency: N/A
Efficacy: 157.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 590.1
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					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°	49113	49113	49113
5°	48799	48648	48797
10°	48457	48219	48541
15°	47915	47706	48206
20°	47197	47078	47715
25°	46237	46295	47218
30°	44908	45445	46718
35°	43300	44542	46287
40°	41368	43497	45862
45°	39090	42363	45320
50°	36598	41216	44662
55°	33535	39811	43549
60°	30397	38157	41330
65°	26972	36044	37681
70°	23259	33351	33730
75°	19501	30238	31061
80°	14785	27988	30815
85°	9353	29092	34435



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2942.6	3.2
10°-20°	8442.0	9.1
20°-30°	12767.1	13.7
30°-40°	15327.0	16.5
40°-50°	15830.3	17.0
50°-60°	14242.3	15.3
60°-70°	10728.5	11.5
70°-80°	6478.2	7.0
80°-90°	3168.4	3.4
90°-100°	1333.6	1.4
100°-110°	761.3	0.8
110°-120°	446.9	0.5
120°-130°	252.7	0.3
130°-140°	133.1	0.1
140°-150°	64.7	0.1
150°-160°	24.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	24151.8	26.0
0°-40°	39478.8	42.5
0°-60°	69551.5	74.8
0°-90°	89926.6	96.8
90°-120°	2541.8	2.7
90°-150°	2992.3	3.2
90°-180°	3016.0	3.2
0°-180°	92942.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	31055	31055	31055	31055	31055	
5°	30858	30941	30903	31025	30987	###
15°	29611	29756	29892	30143	30174	8348
25°	27042	27339	27726	28160	28228	12439
35°	23120	23660	24633	25378	25530	14454
45°	18248	19168	20772	21904	22140	14088
55°	12928	14266	16432	17671	17884	11591
65°	7889	9500	11629	12206	12069	7838
75°	3717	5336	6734	6909	6840	3965
85°	775	2044	3375	3838	3907	896
90°	0	798	1930	2432	2531	49
95°	38	540	1444	1839	1908	32
105°	53	312	836	1094	1140	53
115°	61	175	517	692	722	62
125°	61	84	312	448	471	55
135°	53	68	160	274	304	42
145°	76	68	76	137	160	45
155°	76	84	76	68	76	23
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°	31055.2	31055.2	31055.2	<i>31055.2</i>	31055.2
2.5°	<i>30964.0</i>	<i>31040.0</i>	<i>30994.4</i>	<i>31093.2</i>	<i>31085.6</i>
5°	30857.6	30941.2	30903.2	<i>31024.8</i>	30986.8
7.5°	30675.2	30766.4	30758.8	<i>30895.6</i>	30880.4
10°	30409.2	30508.0	30538.4	<i>30720.8</i>	30720.8
12.5°	30044.4	30173.6	30249.6	<i>30470.0</i>	30477.6
15°	29611.1	29755.5	29892.4	<i>30143.2</i>	30173.6
17.5°	29086.7	29269.1	29459.1	<i>29747.9</i>	29785.9
20°	28493.9	28699.1	28957.5	<i>29261.5</i>	29307.1
22.5°	27809.8	28053.1	28387.5	<i>28744.7</i>	28797.9
25°	27042.2	27338.6	27726.2	<i>28159.5</i>	28227.9
27.5°	26168.2	26510.2	27034.6	<i>27521.0</i>	27581.8
30°	25218.1	25620.9	26274.6	<i>26852.2</i>	26951.0
32.5°	24214.9	24678.5	25484.1	<i>26130.2</i>	26267.0
35°	23120.4	23660.0	24632.9	<i>25377.7</i>	25529.7
37.5°	22041.1	22634.0	23736.0	<i>24587.3</i>	24769.7
40°	20779.5	21516.7	22778.4	<i>23720.8</i>	23941.2
42.5°	19593.8	20391.9	21820.7	<i>22846.8</i>	23059.6
45°	18248.5	19168.2	20771.9	<i>21904.3</i>	22140.0
47.5°	16986.9	17982.5	19761.0	<i>20931.5</i>	21174.7
50°	15656.8	16751.3	18681.8	<i>19905.4</i>	20156.2
52.5°	14326.7	15504.8	17564.5	<i>18833.8</i>	19069.4
55°	12928.3	14265.9	16432.1	<i>17670.9</i>	17883.7
57.5°	11628.6	13042.3	15269.2	<i>16447.3</i>	16576.5
60°	10344.1	11811.0	14083.5	<i>15117.2</i>	15162.8
62.5°	9090.1	10633.0	12867.5	<i>13688.3</i>	13627.5
65°	7889.2	9500.5	11628.6	<i>12206.2</i>	12069.4
67.5°	6733.9	8398.4	10359.3	<i>10731.8</i>	10549.3
70°	5639.5	7326.8	9128.1	<i>9318.1</i>	9150.9
72.5°	4674.2	6308.3	7881.6	<i>8041.2</i>	7919.6
75°	3716.6	5335.5	6733.9	<i>6908.8</i>	6840.4
77.5°	2819.7	4393.0	5677.5	<i>5905.5</i>	5920.7
80°	2029.3	3534.2	4757.8	<i>5115.1</i>	5160.7
82.5°	1337.7	2743.7	3990.2	<i>4446.2</i>	4514.6
85°	775.2	2044.5	3374.6	<i>3838.2</i>	3906.6
87.5°	334.4	1474.5	2713.3	<i>3131.4</i>	3215.0
90°	0.0	798.0	1930.5	<i>2432.1</i>	2530.9
92.5°	22.8	661.2	1656.9	<i>2112.9</i>	2196.5
95°	38.0	539.6	1444.1	<i>1839.3</i>	1907.7
97.5°	45.6	456.0	1254.1	<i>1603.7</i>	1672.1
100°	45.6	395.2	1086.9	<i>1406.1</i>	1466.9
102.5°	45.6	349.6	950.0	<i>1231.3</i>	1284.5
105°	53.2	311.6	836.0	<i>1094.5</i>	1140.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	60.8	205.2	577.6	775.2	805.6
115°	60.8	174.8	516.8	691.6	722.0
117.5°	68.4	152.0	456.0	623.2	646.0
120°	68.4	129.2	402.8	554.8	585.2
122.5°	68.4	106.4	357.2	501.6	524.4
125°	60.8	83.6	311.6	448.4	471.2
127.5°	53.2	68.4	266.0	402.8	425.6
130°	53.2	60.8	228.0	357.2	380.0
132.5°	53.2	68.4	190.0	311.6	342.0
135°	53.2	68.4	159.6	273.6	304.0
137.5°	53.2	68.4	129.2	235.6	266.0
140°	60.8	68.4	106.4	197.6	228.0
142.5°	68.4	68.4	83.6	167.2	190.0
145°	76.0	68.4	76.0	136.8	159.6
147.5°	76.0	76.0	76.0	106.4	129.2
150°	76.0	83.6	76.0	83.6	106.4
152.5°	76.0	83.6	76.0	68.4	83.6
155°	76.0	83.6	76.0	68.4	76.0
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°	53.2	273.6	737.2	972.9	1010.9
110°	53.2	243.2	653.6	866.4	904.4



(END OF REPORT)