

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: P829685

Luminaire Tested: **OHBL-100SE-MFL-UNV-L740-CD**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P829685
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-L740-CD
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 4000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

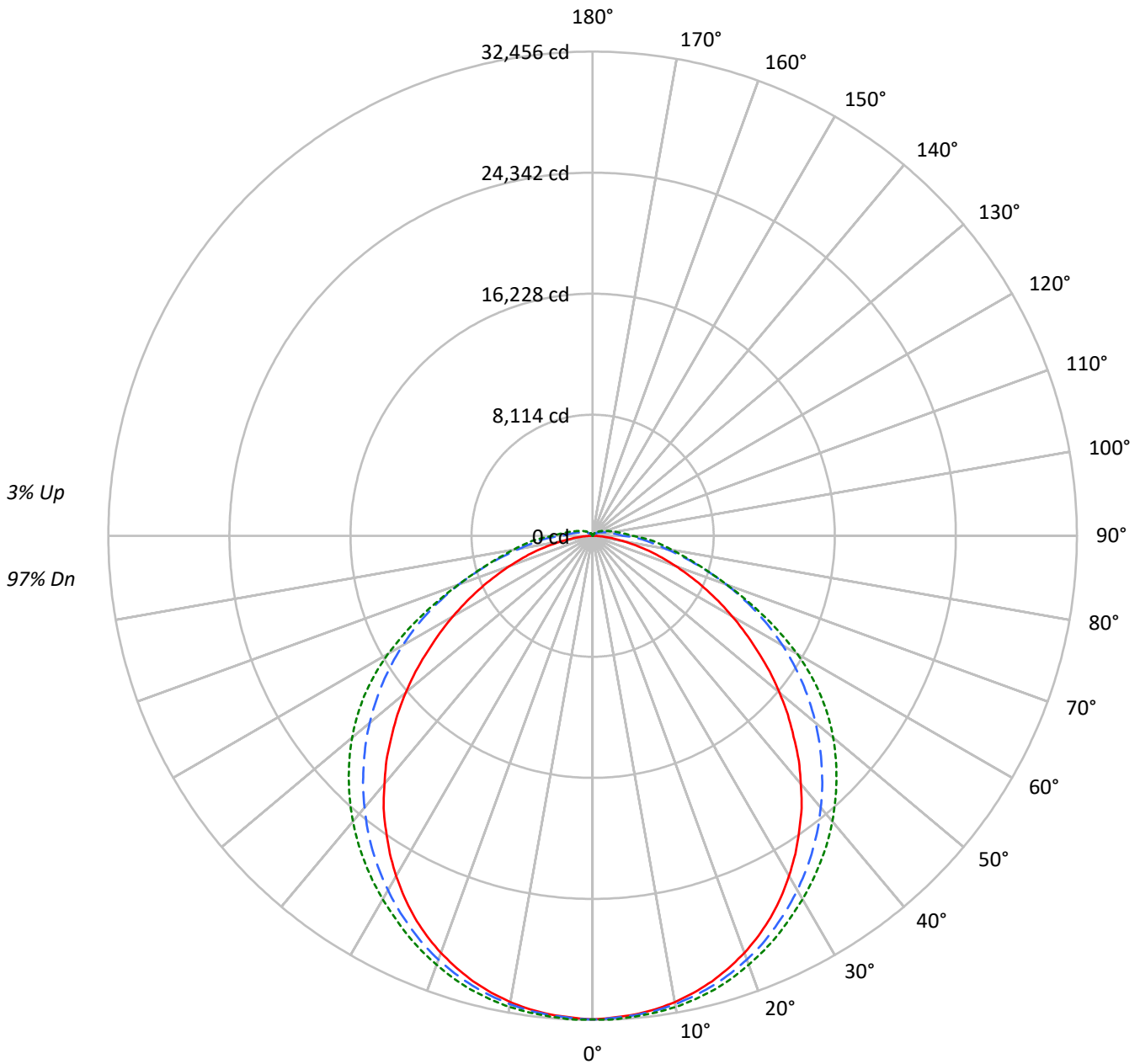
Lumens per Lamp: N/A
Luminaire Lumens: 97039.0 lumens
Efficiency: N/A
Efficacy: 164.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

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	82	82	82	80
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	68	68	68	66
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	58	58	58	56
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	50	50	50	47
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	43	43	43	41
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	38	38	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	34	34	34	32
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	30	30	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	27	27	27	25
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	25	25	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	51277	51277	51277
5°	50949	50792	50947
10°	50592	50344	50680
15°	50027	49808	50330
20°	49277	49153	49817
25°	48275	48335	49298
30°	46888	47447	48777
35°	45208	46505	48327
40°	43191	45414	47883
45°	40813	44229	47317
50°	38211	43032	46630
55°	35012	41566	45469
60°	31736	39839	43151
65°	28161	37632	39342
70°	24284	34820	35217
75°	20361	31571	32430
80°	15436	29222	32173
85°	9766	30374	35953



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3072.3	3.2
10°-20°	8814.1	9.1
20°-30°	13329.7	13.7
30°-40°	16002.5	16.5
40°-50°	16528.0	17.0
50°-60°	14870.0	15.3
60°-70°	11201.3	11.5
70°-80°	6763.7	7.0
80°-90°	3308.0	3.4
90°-100°	1392.4	1.4
100°-110°	794.8	0.8
110°-120°	466.6	0.5
120°-130°	263.9	0.3
130°-140°	138.9	0.1
140°-150°	67.6	0.1
150°-160°	25.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	25216.1	26.0
0°-40°	41218.6	42.5
0°-60°	72616.6	74.8
0°-90°	93889.7	96.8
90°-120°	2653.8	2.7
90°-150°	3124.2	3.2
90°-180°	3149.0	3.2
0°-180°	97039.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	32424	32424	32424	32424	32424	
5°	32218	32305	32265	32392	32352	###
15°	30916	31067	31210	31472	31503	8716
25°	28234	28543	28948	29400	29472	12987
35°	24139	24703	25718	26496	26655	15091
45°	19053	20013	21687	22870	23116	14709
55°	13498	14895	17156	18450	18672	12102
65°	8237	9919	12141	12744	12601	8183
75°	3880	5571	7031	7213	7142	4140
85°	809	2135	3523	4007	4079	935
90°	0	833	2016	2539	2642	51
95°	40	563	1508	1920	1992	33
105°	56	325	873	1143	1190	56
115°	64	182	540	722	754	65
125°	64	87	325	468	492	57
135°	56	71	167	286	317	44
145°	79	71	79	143	167	47
155°	79	87	79	71	79	24
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°	32423.8	32423.8	32423.8	<i>32423.8</i>	32423.8
2.5°	<i>32328.6</i>	<i>32407.9</i>	<i>32360.3</i>	<i>32463.5</i>	<i>32455.6</i>
5°	32217.5	32304.8	32265.1	<i>32392.1</i>	32352.4
7.5°	32027.1	32122.3	32114.3	<i>32257.2</i>	32241.3
10°	31749.3	31852.5	31884.2	<i>32074.7</i>	32074.7
12.5°	31368.4	31503.3	31582.7	<i>31812.8</i>	31820.7
15°	30916.1	31066.9	31209.7	<i>31471.6</i>	31503.3
17.5°	30368.6	30559.0	30757.4	<i>31058.9</i>	31098.6
20°	29749.6	29963.9	30233.7	<i>30551.1</i>	30598.7
22.5°	29035.4	29289.4	29638.5	<i>30011.5</i>	30067.0
25°	28234.0	28543.4	28948.1	<i>29400.5</i>	29471.9
27.5°	27321.4	27678.5	28226.0	<i>28733.9</i>	28797.4
30°	26329.5	26750.0	27432.5	<i>28035.6</i>	28138.7
32.5°	25282.0	25766.1	26607.2	<i>27281.7</i>	27424.6
35°	24139.3	24702.7	25718.5	<i>26496.1</i>	26654.8
37.5°	23012.5	23631.5	24782.1	<i>25670.8</i>	25861.3
40°	21695.2	22465.0	23782.2	<i>24766.2</i>	24996.3
42.5°	20457.3	21290.5	22782.4	<i>23853.6</i>	24075.8
45°	19052.8	20012.9	21687.3	<i>22869.7</i>	23115.7
47.5°	17735.5	18775.0	20631.9	<i>21853.9</i>	22107.9
50°	16346.8	17489.5	19505.1	<i>20782.7</i>	21044.5
52.5°	14958.1	16188.1	18338.6	<i>19663.8</i>	19909.8
55°	13498.0	14894.6	17156.2	<i>18449.7</i>	18671.9
57.5°	12141.1	13617.1	15942.1	<i>17172.1</i>	17307.0
60°	10800.0	12331.5	14704.2	<i>15783.4</i>	15831.0
62.5°	9490.7	11101.5	13434.5	<i>14291.6</i>	14228.1
65°	8236.9	9919.2	12141.1	<i>12744.2</i>	12601.3
67.5°	7030.7	8768.6	10815.9	<i>11204.7</i>	11014.3
70°	5888.0	7649.7	9530.3	<i>9728.7</i>	9554.2
72.5°	4880.2	6586.3	8229.0	<i>8395.6</i>	8268.6
75°	3880.4	5570.6	7030.7	<i>7213.2</i>	7141.8
77.5°	2944.0	4586.6	5927.7	<i>6165.8</i>	6181.6
80°	2118.7	3689.9	4967.5	<i>5340.5</i>	5388.1
82.5°	1396.6	2864.7	4166.1	<i>4642.2</i>	4713.6
85°	809.4	2134.6	3523.3	<i>4007.3</i>	4078.8
87.5°	349.2	1539.5	2832.9	<i>3269.4</i>	3356.7
90°	0.0	833.2	2015.6	<i>2539.3</i>	2642.5
92.5°	23.8	690.4	1729.9	<i>2206.0</i>	2293.3
95°	39.7	563.4	1507.7	<i>1920.4</i>	1991.8
97.5°	47.6	476.1	1309.3	<i>1674.4</i>	1745.8
100°	47.6	412.6	1134.8	<i>1468.0</i>	1531.5
102.5°	47.6	365.0	991.9	<i>1285.5</i>	1341.1
105°	55.5	325.3	872.9	<i>1142.7</i>	1190.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	63.5	214.3	603.1	809.4	841.1
115°	63.5	182.5	539.6	722.1	753.9
117.5°	71.4	158.7	476.1	650.7	674.5
120°	71.4	134.9	420.6	579.3	611.0
122.5°	71.4	111.1	373.0	523.7	547.5
125°	63.5	87.3	325.3	468.2	492.0
127.5°	55.5	71.4	277.7	420.6	444.4
130°	55.5	63.5	238.1	373.0	396.8
132.5°	55.5	71.4	198.4	325.3	357.1
135°	55.5	71.4	166.6	285.7	317.4
137.5°	55.5	71.4	134.9	246.0	277.7
140°	63.5	71.4	111.1	206.3	238.1
142.5°	71.4	71.4	87.3	174.6	198.4
145°	79.4	71.4	79.4	142.8	166.6
147.5°	79.4	79.4	79.4	111.1	134.9
150°	79.4	87.3	79.4	87.3	111.1
152.5°	79.4	87.3	79.4	71.4	87.3
155°	79.4	87.3	79.4	71.4	79.4
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°	55.5	285.7	769.7	1015.7	1055.4
110°	55.5	253.9	682.4	904.6	944.3



(END OF REPORT)