

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: P829720

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829720
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-100SE-W-UNV-L735-CD
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

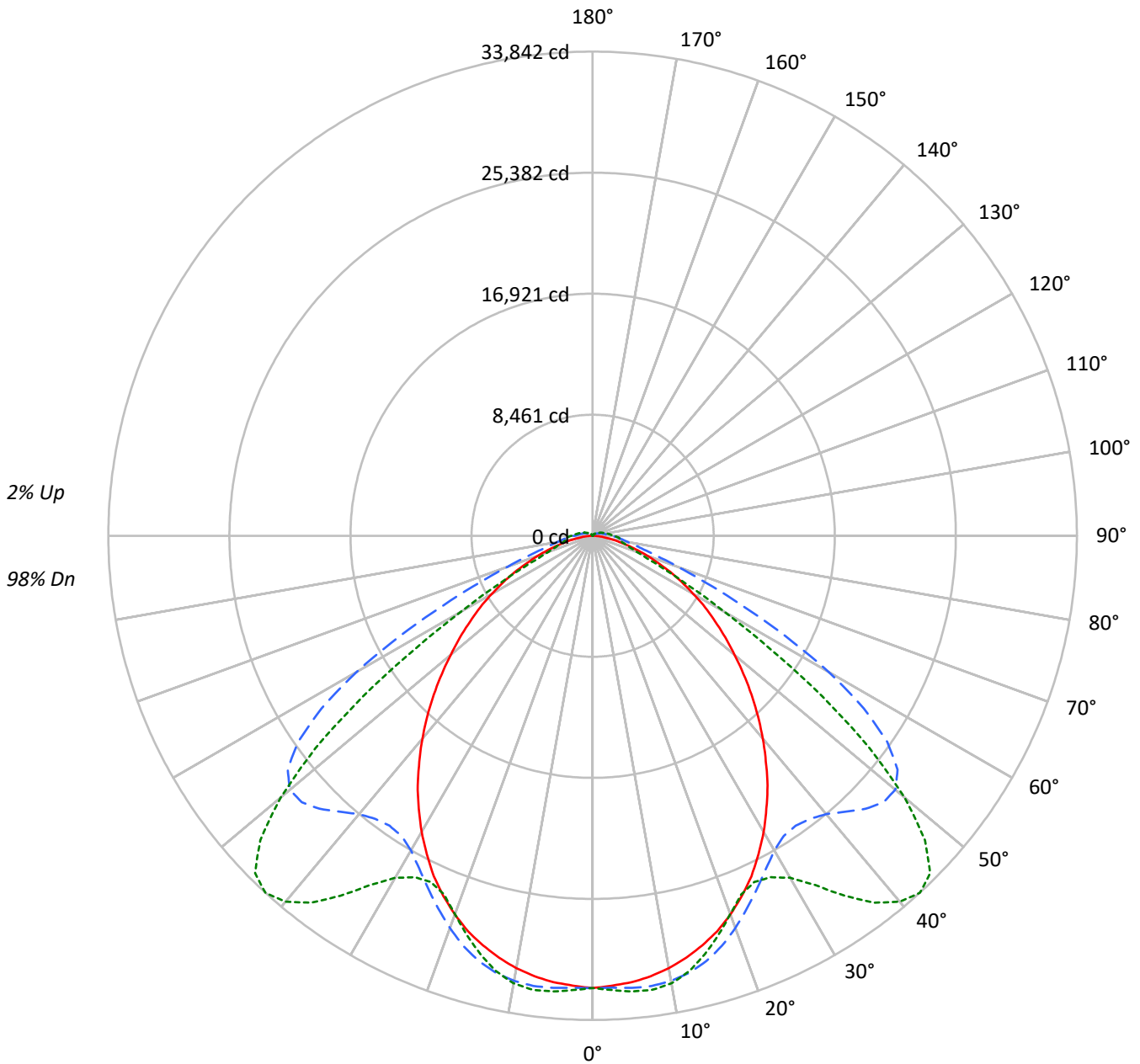
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 94650.0 lumens
Efficiency: N/A
Efficacy: 160.4 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
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									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	105	105	105	100	100	100	98																			
1	109	104	100	96	106	102	98	95	97	94	91	93	90	88	89	87	85	83																			
2	99	91	85	79	96	89	83	78	85	80	76	82	77	74	78	75	72	70																			
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	69	65	61	59																			
4	83	71	62	56	80	69	61	55	67	60	54	64	58	53	62	57	52	50																			
5	76	63	54	48	74	62	54	47	60	52	47	57	51	46	55	50	45	43																			
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	38																			
7	65	51	43	36	63	50	42	36	49	41	36	47	40	35	45	40	35	33																			
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29																			
9	56	43	34	29	55	42	34	29	41	34	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	39	31	26	38	31	26	36	30	26	35	30	25	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	49993	49993	49993
5°	49527	49945	50349
10°	48905	49892	50196
15°	47951	49089	48378
20°	46645	47424	45803
25°	44896	45402	44675
30°	42569	43905	47833
35°	39915	44742	55669
40°	36836	48487	63965
45°	33617	55038	68281
50°	30258	60908	63032
55°	27102	60890	47698
60°	23889	51573	28814
65°	20496	35663	17183
70°	16652	23099	12142
75°	12668	16599	10901
80°	9093	14644	11647
85°	6172	16228	16412



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3020.8	3.2
10°-20°	8554.1	9.0
20°-30°	12517.4	13.2
30°-40°	16256.5	17.2
40°-50°	19851.2	21.0
50°-60°	17482.1	18.5
60°-70°	9110.0	9.6
70°-80°	3906.7	4.1
80°-90°	1876.2	2.0
90°-100°	881.4	0.9
100°-110°	547.9	0.6
110°-120°	323.9	0.3
120°-130°	176.1	0.2
130°-140°	88.4	0.1
140°-150°	42.5	0.0
150°-160°	14.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	24092.3	25.5
0°-40°	40348.8	42.6
0°-60°	77682.1	82.1
0°-90°	92575.0	97.8
90°-120°	1753.2	1.9
90°-150°	2060.1	2.2
90°-180°	2075.0	2.2
0°-180°	94650.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	31611	31611	31611	31611	31611	
5°	31318	31557	31727	32007	31973	###
15°	29634	30466	30759	30527	30281	8344
25°	26258	27662	27192	26680	26708	12050
35°	21313	23564	24744	28856	30704	13284
45°	15693	19744	26987	32675	33357	12101
55°	10448	17296	25132	22036	19588	9377
65°	5995	11983	11506	6397	5504	5931
75°	2414	5606	3696	2530	2401	2633
85°	512	1998	1882	1841	1862	570
90°	7	723	1241	1419	1453	36
95°	14	423	989	1159	1194	10
105°	27	239	641	771	784	29
115°	41	136	396	484	498	42
125°	48	68	232	300	307	41
135°	41	41	109	184	191	32
145°	55	41	48	89	102	32
155°	55	55	41	41	41	17
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°	31611.4	31611.4	31611.4	31611.4	<i>31611.4</i>
2.5°	31475.0	31611.4	31618.2	31809.2	<i>31788.7</i>
5°	31318.1	31556.8	31727.3	32006.9	<i>31972.8</i>
7.5°	31058.9	31434.0	31734.1	32041.0	<i>32013.8</i>
10°	30690.7	31202.2	31597.7	31850.1	<i>31768.2</i>
12.5°	30213.2	30888.4	31277.2	31331.7	<i>31174.9</i>
15°	29633.5	30465.6	30758.9	30527.0	<i>30281.4</i>
17.5°	28978.8	29954.1	30056.4	29551.7	<i>29244.8</i>
20°	28160.4	29272.1	29169.8	28474.1	<i>28133.1</i>
22.5°	27253.3	28521.8	28194.5	27464.7	<i>27137.4</i>
25°	26257.6	27662.5	27191.9	26680.4	<i>26707.7</i>
27.5°	25091.3	26687.2	26230.3	26462.2	<i>26898.7</i>
30°	23904.6	25664.2	25384.6	26735.0	<i>27594.3</i>
32.5°	22602.0	24613.9	24866.2	27532.9	<i>28937.9</i>
35°	21313.0	23563.6	24743.5	28856.0	<i>30704.3</i>
37.5°	19887.5	22499.7	24941.3	30383.7	<i>32320.7</i>
40°	18503.1	21463.0	25391.4	31754.6	<i>33391.4</i>
42.5°	<i>17091.3</i>	<i>20535.5</i>	<i>26148.4</i>	<i>32566.2</i>	<i>33841.6</i>
45°	15693.2	19744.3	26987.3	32675.3	<i>33357.3</i>
47.5°	14295.0	19075.9	27567.0	31809.2	<i>31495.4</i>
50°	12944.6	18482.6	27607.9	29729.0	<i>28446.8</i>
52.5°	11682.9	17937.0	26857.7	26414.4	<i>24422.9</i>
55°	10448.5	17295.9	25132.2	22035.9	<i>19587.5</i>
57.5°	9323.1	16409.3	22472.4	17330.0	<i>14656.5</i>
60°	8129.6	15208.9	19035.0	12678.6	<i>10571.2</i>
62.5°	7031.6	13715.3	15181.6	8825.3	<i>7597.6</i>
65°	5994.9	11983.0	11505.6	6397.3	<i>5503.9</i>
67.5°	4896.9	10189.3	8491.1	4665.0	<i>4092.1</i>
70°	4037.5	8525.2	6322.3	3628.3	<i>3294.1</i>
72.5°	3157.7	6942.9	4726.4	2946.3	<i>2762.2</i>
75°	2414.3	5606.2	3696.5	2530.3	<i>2400.7</i>
77.5°	1780.1	4433.1	2973.6	2237.0	<i>2114.2</i>
80°	1248.1	3491.9	2489.4	1998.3	<i>1950.6</i>
82.5°	838.9	2700.8	2121.1	1902.8	<i>1909.6</i>
85°	511.5	1998.3	1882.4	1841.4	<i>1861.9</i>
87.5°	245.5	1418.6	1616.4	1677.8	<i>1698.2</i>
90°	6.8	722.9	1241.3	1418.6	<i>1452.7</i>
92.5°	0.0	552.4	1091.2	1268.5	<i>1302.6</i>
95°	13.6	422.8	988.9	1159.4	<i>1193.5</i>
97.5°	13.6	347.8	886.6	1063.9	<i>1084.4</i>
100°	20.5	300.1	791.1	961.6	<i>982.1</i>
102.5°	20.5	266.0	709.3	859.3	<i>873.0</i>
105°	27.3	238.7	641.1	770.7	<i>784.3</i>



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	40.9	163.7	450.1	545.6	559.3
115°	40.9	136.4	395.6	484.2	497.9
117.5°	47.7	122.8	347.8	429.7	436.5
120°	47.7	102.3	300.1	381.9	388.7
122.5°	47.7	81.8	266.0	341.0	347.8
125°	47.7	68.2	231.9	300.1	306.9
127.5°	40.9	47.7	197.8	266.0	272.8
130°	40.9	40.9	163.7	231.9	245.5
132.5°	40.9	40.9	136.4	204.6	218.2
135°	40.9	40.9	109.1	184.1	191.0
137.5°	40.9	40.9	88.7	156.9	170.5
140°	40.9	40.9	68.2	136.4	143.2
142.5°	47.7	40.9	61.4	115.9	122.8
145°	54.6	40.9	47.7	88.7	102.3
147.5°	54.6	47.7	47.7	75.0	81.8
150°	54.6	54.6	40.9	54.6	68.2
152.5°	54.6	54.6	40.9	40.9	54.6
155°	54.6	54.6	40.9	40.9	40.9
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°	34.1	211.4	572.9	688.8	702.5
110°	34.1	184.1	504.7	613.8	627.5



(END OF REPORT)