

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: P829660

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

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P829660
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-100SE-A-UNV-L735-CD
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

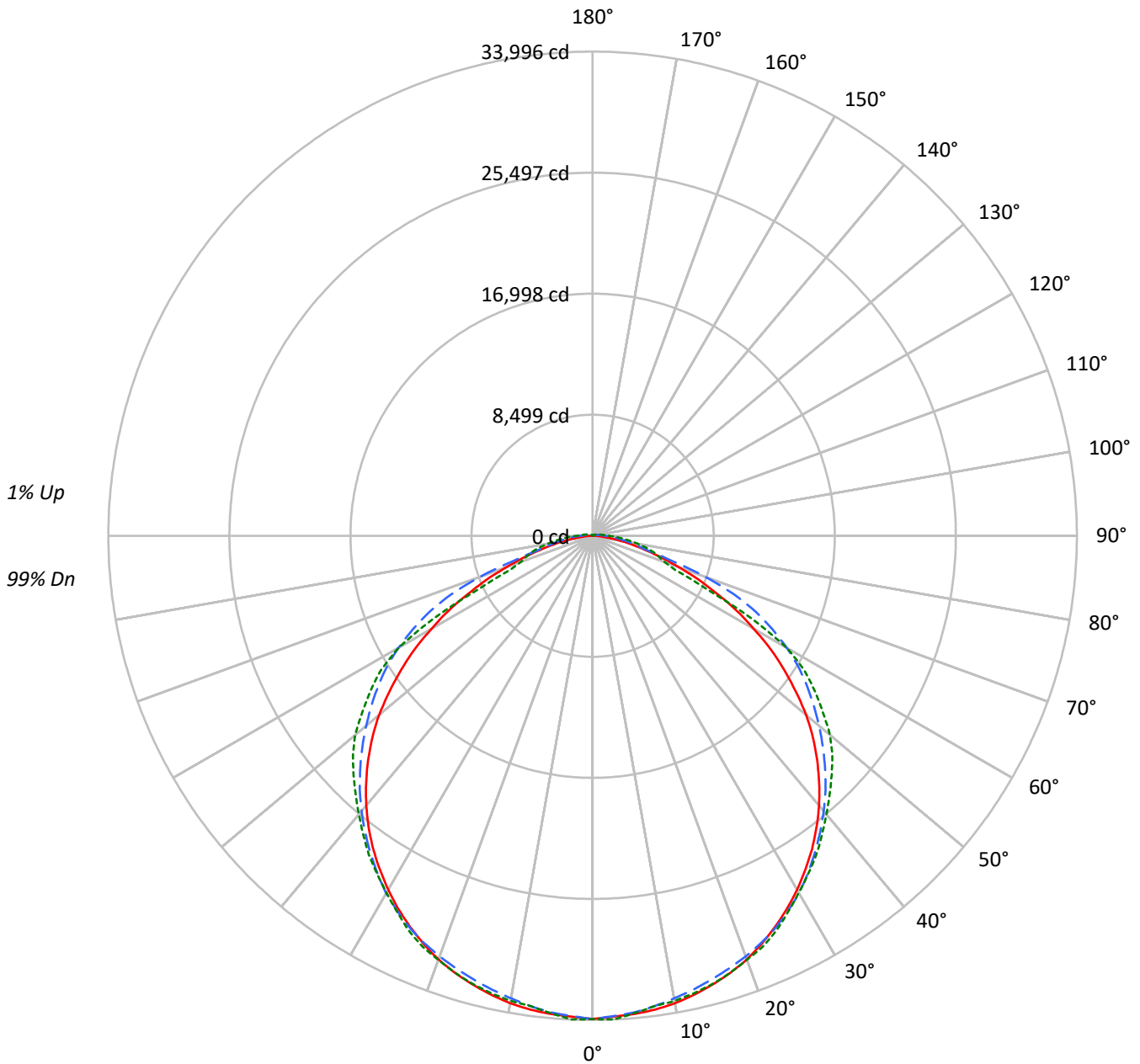
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 95894.1 lumens
Efficiency: N/A
Efficacy: 162.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
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									
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°	53655	53655	53655
5°	53304	52876	52987
10°	53109	52075	52398
15°	52772	51476	52048
20°	52435	51099	51587
25°	51803	50718	51130
30°	51114	50120	50163
35°	50292	49169	49629
40°	49222	48188	48903
45°	47740	47052	48582
50°	45731	45759	48197
55°	42539	44486	46398
60°	38360	42625	42896
65°	32906	39169	27185
70°	26505	30577	19710
75°	19872	18151	20004
80°	13832	15092	19099
85°	7872	13829	17902



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3199.0	3.3
10°-20°	9173.3	9.6
20°-30°	14010.6	14.6
30°-40°	16999.6	17.7
40°-50°	17817.2	18.6
50°-60°	16145.1	16.8
60°-70°	10824.6	11.3
70°-80°	4860.7	5.1
80°-90°	1763.9	1.8
90°-100°	531.0	0.6
100°-110°	250.5	0.3
110°-120°	125.6	0.1
120°-130°	69.3	0.1
130°-140°	47.6	0.0
140°-150°	32.1	0.0
150°-160°	23.8	0.0
160°-170°	15.3	0.0
170°-180°	4.9	0.0
0°-30°	26382.9	27.5
0°-40°	43382.5	45.2
0°-60°	77344.8	80.7
0°-90°	94794.1	98.9
90°-120°	907.0	0.9
90°-150°	1056.0	1.1
90°-180°	1100.0	1.1
0°-180°	95894.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	33927	33927	33927	33927	33927	
5°	33707	33824	33589	33692	33648	###
15°	32613	32485	32255	32539	32578	9208
25°	30297	30165	30376	30655	30567	13965
35°	26854	26917	27192	27481	27373	16784
45°	22286	22649	23071	23660	23734	17168
55°	16400	17189	18362	19098	19054	14639
65°	9625	11131	12637	10665	8708	9590
75°	3787	5494	4042	4136	4405	4139
85°	652	1251	1604	1938	2031	796
90°	5	417	829	1040	1089	39
95°	5	260	569	692	711	7
105°	20	113	280	338	353	23
115°	39	59	142	182	191	36
125°	34	39	88	103	108	34
135°	44	49	54	78	83	35
145°	44	49	49	54	59	29
155°	49	54	54	54	49	23
165°	54	54	54	54	54	15
175°	54	54	49	44	44	5
180°	49	49	49	49	49	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	33927.4	33927.4	33927.4	33927.4	<i>33927.4</i>
2.5°	<i>33790.0</i>	<i>33932.3</i>	<i>33755.7</i>	<i>33947.0</i>	<i>33996.1</i>
5°	33706.6	33824.4	33588.9	33691.9	<i>33647.8</i>
7.5°	33554.5	33593.8	33314.2	33397.6	<i>33309.3</i>
10°	33328.9	33309.3	32980.6	33142.5	<i>33162.1</i>
12.5°	32995.3	32936.4	32642.1	32887.4	<i>32892.3</i>
15°	32612.7	32485.1	32254.6	32539.1	<i>32578.3</i>
17.5°	32171.2	32004.4	31852.3	32220.2	<i>32161.3</i>
20°	31656.1	31459.8	31430.4	31832.7	<i>31685.5</i>
22.5°	31018.3	30866.3	30934.9	31317.6	<i>31224.4</i>
25°	30297.2	30164.8	30375.7	30655.3	<i>30567.0</i>
27.5°	29536.8	29458.3	29698.7	29914.6	<i>29742.9</i>
30°	28702.9	28658.7	28977.6	29154.2	<i>28938.3</i>
32.5°	27795.3	27810.1	28114.2	28354.6	<i>28153.4</i>
35°	26853.5	26917.2	27191.9	27481.4	<i>27373.4</i>
37.5°	25818.4	25960.6	26235.3	26564.0	<i>26451.2</i>
40°	24724.4	24930.4	25234.6	25631.9	<i>25528.9</i>
42.5°	23542.1	23802.1	24194.6	24636.1	<i>24626.3</i>
45°	22286.3	22649.3	23071.2	23659.9	<i>23733.5</i>
47.5°	20981.4	21388.6	21923.3	22708.2	<i>22821.0</i>
50°	19563.7	20073.9	20741.0	21682.9	<i>21751.6</i>
52.5°	17984.1	18680.7	19563.7	20466.3	<i>20382.9</i>
55°	16399.5	17189.3	18361.8	19097.6	<i>19053.5</i>
57.5°	14819.9	15707.8	17130.5	17655.4	<i>17650.5</i>
60°	13053.9	14177.3	15732.4	16129.7	<i>15737.3</i>
62.5°	11420.3	12627.1	14241.1	13951.6	<i>12607.5</i>
65°	9624.9	11130.9	12636.9	10664.9	<i>8707.5</i>
67.5°	8030.5	9600.3	10733.5	7304.5	<i>6254.7</i>
70°	6426.4	8158.1	8369.0	5420.7	<i>5347.1</i>
72.5°	5003.7	6848.3	5773.9	4640.7	<i>4876.2</i>
75°	3787.2	5494.3	4042.2	4135.5	<i>4405.3</i>
77.5°	2761.9	4218.8	3144.5	3625.3	<i>3846.0</i>
80°	1898.5	2987.5	2565.6	3046.4	<i>3198.5</i>
82.5°	1192.1	1972.1	2055.5	2452.8	<i>2609.8</i>
85°	652.4	1250.9	1604.1	1937.7	<i>2030.9</i>
87.5°	269.8	755.5	1226.4	1496.2	<i>1574.7</i>
90°	4.9	417.0	829.1	1040.0	<i>1089.1</i>
92.5°	4.9	318.9	677.0	838.9	<i>873.2</i>
95°	4.9	260.0	569.1	691.7	<i>711.3</i>
97.5°	9.8	206.0	475.8	574.0	<i>593.6</i>
100°	14.7	171.7	397.4	480.8	<i>495.5</i>
102.5°	19.6	137.4	333.6	402.3	<i>417.0</i>
105°	19.6	112.8	279.6	338.5	<i>353.2</i>



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	34.3	68.7	166.8	210.9	220.8
115°	39.2	58.9	142.3	181.5	191.3
117.5°	39.2	49.1	122.6	152.1	161.9
120°	39.2	44.2	107.9	132.5	137.4
122.5°	39.2	39.2	93.2	117.7	122.6
125°	34.3	39.2	88.3	103.0	107.9
127.5°	39.2	39.2	78.5	93.2	98.1
130°	39.2	44.2	68.7	88.3	88.3
132.5°	44.2	49.1	63.8	83.4	83.4
135°	44.2	49.1	54.0	78.5	83.4
137.5°	49.1	49.1	49.1	73.6	78.5
140°	49.1	49.1	44.2	63.8	68.7
142.5°	44.2	49.1	44.2	58.9	63.8
145°	44.2	49.1	49.1	54.0	58.9
147.5°	49.1	49.1	49.1	49.1	54.0
150°	49.1	49.1	49.1	49.1	49.1
152.5°	49.1	49.1	49.1	49.1	49.1
155°	49.1	54.0	54.0	54.0	49.1
157.5°	49.1	54.0	54.0	54.0	54.0
160°	49.1	54.0	54.0	54.0	54.0
162.5°	54.0	54.0	54.0	54.0	54.0
165°	54.0	54.0	54.0	54.0	54.0
167.5°	54.0	58.9	54.0	54.0	54.0
170°	54.0	54.0	54.0	49.1	49.1
172.5°	54.0	54.0	54.0	49.1	49.1
175°	54.0	54.0	49.1	44.2	44.2
177.5°	58.9	54.0	49.1	44.2	39.2
180°	49.1	49.1	49.1	49.1	49.1



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	24.5	93.2	240.4	289.4	299.2
110°	29.4	78.5	201.1	245.3	255.1



(END OF REPORT)