

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: P829680

Luminaire Tested: **OHBL-100SE-MCL-UNV-L935-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829680
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-MCL-UNV-L935-CD
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 3500K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

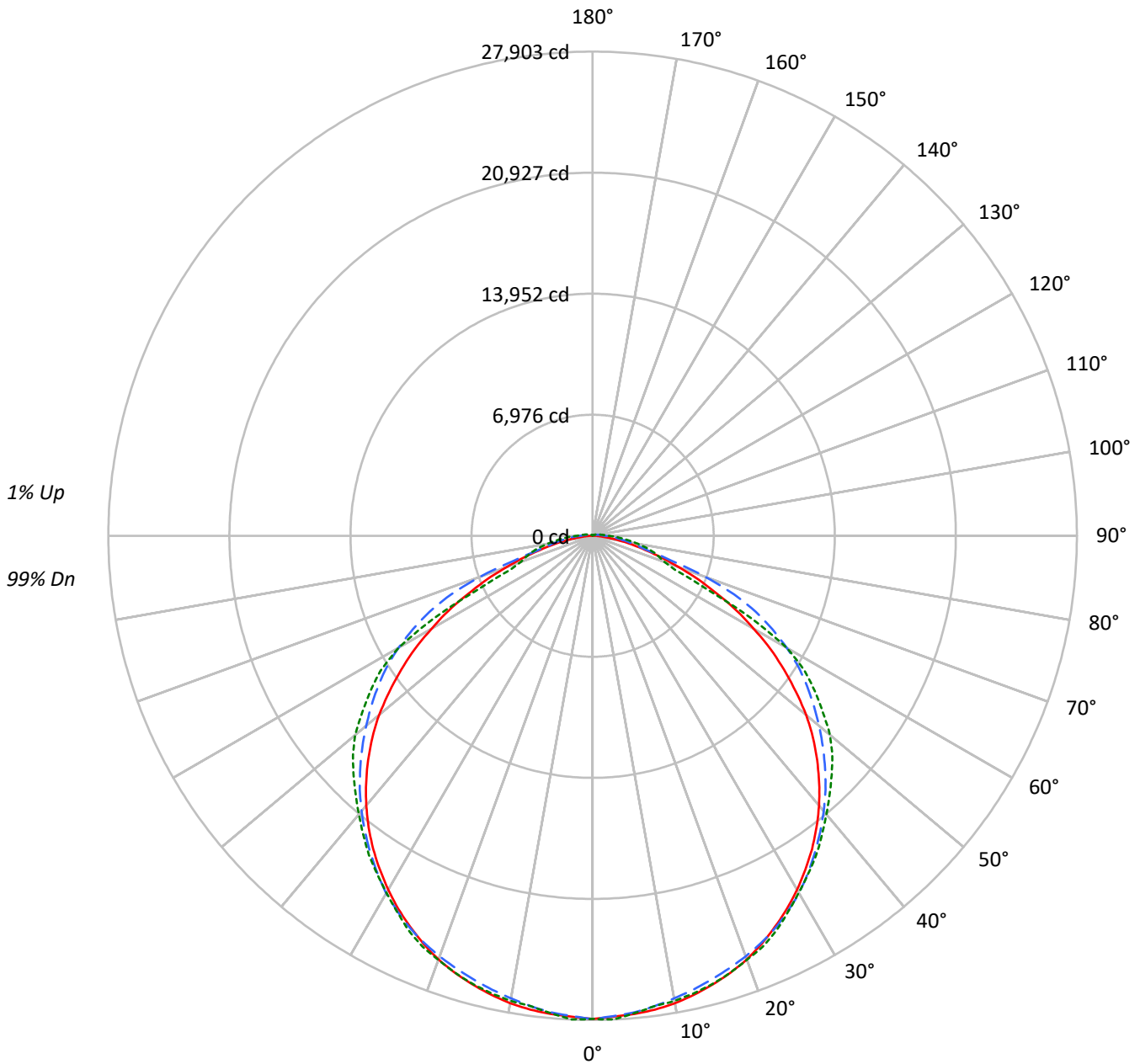
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 78706.0 lumens
Efficiency: N/A
Efficacy: 133.4 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°	44038	44038	44038
5°	43750	43398	43490
10°	43590	42741	43006
15°	43313	42250	42719
20°	43036	41940	42340
25°	42517	41628	41966
30°	41953	41136	41172
35°	41277	40356	40734
40°	40399	39551	40138
45°	39183	38618	39874
50°	37534	37557	39558
55°	34914	36513	38082
60°	31484	34985	35207
65°	27008	32149	22313
70°	21754	25097	16177
75°	16309	14898	16418
80°	11353	12388	15675
85°	6461	11350	14693



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2625.6	3.3
10°-20°	7529.1	9.6
20°-30°	11499.3	14.6
30°-40°	13952.6	17.7
40°-50°	14623.7	18.6
50°-60°	13251.2	16.8
60°-70°	8884.4	11.3
70°-80°	3989.5	5.1
80°-90°	1447.7	1.8
90°-100°	435.8	0.6
100°-110°	205.6	0.3
110°-120°	103.1	0.1
120°-130°	56.9	0.1
130°-140°	39.1	0.0
140°-150°	26.3	0.0
150°-160°	19.5	0.0
160°-170°	12.6	0.0
170°-180°	4.0	0.0
0°-30°	21654.1	27.5
0°-40°	35606.7	45.2
0°-60°	63481.6	80.7
0°-90°	77803.2	98.9
90°-120°	744.4	0.9
90°-150°	866.7	1.1
90°-180°	903.0	1.1
0°-180°	78706.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	27846	27846	27846	27846	27846	
5°	27665	27762	27568	27653	27617	###
15°	26767	26662	26473	26707	26739	7557
25°	24867	24758	24931	25161	25088	11462
35°	22040	22093	22318	22556	22467	13776
45°	18292	18590	18936	19419	19480	14091
55°	13460	14108	15071	15675	15638	12015
65°	7900	9136	10372	8753	7147	7871
75°	3108	4510	3318	3394	3616	3397
85°	536	1027	1317	1590	1667	653
90°	4	342	680	854	894	32
95°	4	213	467	568	584	5
105°	16	93	230	278	290	19
115°	32	48	117	149	157	30
125°	28	32	72	85	89	28
135°	36	40	44	64	68	29
145°	36	40	40	44	48	24
155°	40	44	44	44	40	19
165°	44	44	44	44	44	12
175°	44	44	40	36	36	4
180°	40	40	40	40	40	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	27846.2	27846.2	27846.2	27846.2	27846.2
2.5°	27733.5	27850.3	27705.3	27862.4	27902.6
5°	27665.1	27761.7	27568.4	27653.0	27616.7
7.5°	27540.2	27572.5	27343.0	27411.4	27338.9
10°	27355.0	27338.9	27069.2	27202.0	27218.1
12.5°	27081.2	27032.9	26791.3	26992.7	26996.7
15°	26767.2	26662.5	26473.3	26706.8	26739.0
17.5°	26404.8	26267.9	26143.1	26445.1	26396.8
20°	25982.0	25821.0	25796.8	26127.0	26006.2
22.5°	25458.6	25333.8	25390.2	25704.2	25627.7
25°	24866.7	24758.0	24931.2	25160.7	25088.2
27.5°	24242.7	24178.2	24375.5	24552.7	24411.8
30°	23558.2	23521.9	23783.7	23928.6	23751.4
32.5°	22813.3	22825.4	23075.0	23272.3	23107.2
35°	22040.2	22092.6	22318.1	22555.6	22467.0
37.5°	21190.7	21307.5	21532.9	21802.7	21710.1
40°	20292.8	20461.9	20711.6	21037.7	20953.1
42.5°	19322.5	19535.9	19858.0	20220.3	20212.3
45°	18291.7	18589.7	18935.9	19419.1	19479.5
47.5°	17220.7	17554.9	17993.8	18638.0	18730.6
50°	16057.1	16475.8	17023.4	17796.5	17852.8
52.5°	14760.6	15332.3	16057.1	16797.9	16729.5
55°	13460.1	14108.3	15070.6	15674.6	15638.4
57.5°	12163.6	12892.4	14060.0	14490.8	14486.8
60°	10714.1	11636.2	12912.5	13238.6	12916.5
62.5°	9373.3	10363.8	11688.5	11450.9	10347.7
65°	7899.7	9135.8	10371.9	8753.3	7146.8
67.5°	6591.1	7879.6	8809.7	5995.2	5133.6
70°	5274.5	6695.8	6869.0	4449.1	4388.7
72.5°	4106.9	5620.8	4739.0	3808.9	4002.2
75°	3108.3	4509.5	3317.7	3394.2	3615.7
77.5°	2266.8	3462.7	2580.9	2975.5	3156.7
80°	1558.2	2452.0	2105.8	2500.4	2625.2
82.5°	978.4	1618.6	1687.0	2013.2	2142.0
85°	535.5	1026.7	1316.6	1590.4	1666.9
87.5°	221.4	620.1	1006.6	1228.0	1292.5
90°	4.0	342.2	680.5	853.6	893.9
92.5°	4.0	261.7	555.6	688.5	716.7
95°	4.0	213.4	467.1	567.7	583.8
97.5°	8.1	169.1	390.6	471.1	487.2
100°	12.1	140.9	326.1	394.6	406.7
102.5°	16.1	112.7	273.8	330.2	342.2
105°	16.1	92.6	229.5	277.8	289.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	28.2	56.4	136.9	173.1	181.2
115°	32.2	48.3	116.8	149.0	157.0
117.5°	32.2	40.3	100.7	124.8	132.9
120°	32.2	36.2	88.6	108.7	112.7
122.5°	32.2	32.2	76.5	96.6	100.7
125°	28.2	32.2	72.5	84.6	88.6
127.5°	32.2	32.2	64.4	76.5	80.5
130°	32.2	36.2	56.4	72.5	72.5
132.5°	36.2	40.3	52.3	68.4	68.4
135°	36.2	40.3	44.3	64.4	68.4
137.5°	40.3	40.3	40.3	60.4	64.4
140°	40.3	40.3	36.2	52.3	56.4
142.5°	36.2	40.3	36.2	48.3	52.3
145°	36.2	40.3	40.3	44.3	48.3
147.5°	40.3	40.3	40.3	40.3	44.3
150°	40.3	40.3	40.3	40.3	40.3
152.5°	40.3	40.3	40.3	40.3	40.3
155°	40.3	44.3	44.3	44.3	40.3
157.5°	40.3	44.3	44.3	44.3	44.3
160°	40.3	44.3	44.3	44.3	44.3
162.5°	44.3	44.3	44.3	44.3	44.3
165°	44.3	44.3	44.3	44.3	44.3
167.5°	44.3	48.3	44.3	44.3	44.3
170°	44.3	44.3	44.3	40.3	40.3
172.5°	44.3	44.3	44.3	40.3	40.3
175°	44.3	44.3	40.3	36.2	36.2
177.5°	48.3	44.3	40.3	36.2	32.2
180°	40.3	40.3	40.3	40.3	40.3



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	20.1	76.5	197.3	237.6	245.6
110°	24.2	64.4	165.1	201.3	209.4



(END OF REPORT)