

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: LUMIERE

Report Number: P221246

Luminaire Tested: **9002-W2-[RW, RI]-LED3097-S-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221246
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29409)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9002-W2-[RW, RI]-LED3097-S-WT-L1-UNV
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, RECESSED LENS, SPOT OPTIC, WHITE HOUSING.
Light Source: (1) 3000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 723.8 lumens
Efficiency: N/A
Efficacy: 36.2 lumens/watt
Spacing Criteria (0/90/45): 0.25 / 0.25 / 0.24
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: General Diffuse

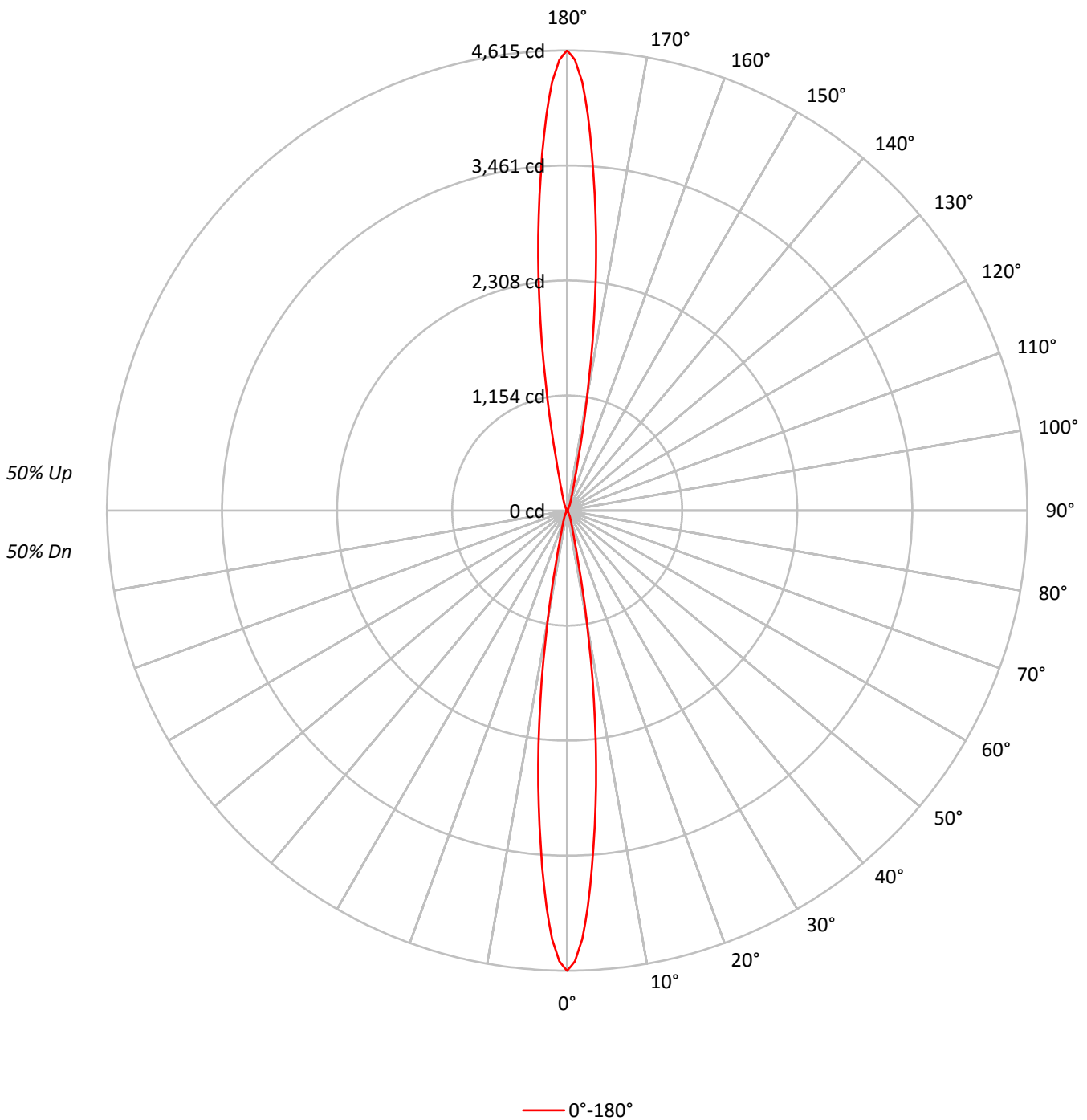
Input Watts (W): 20
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	101	98	96	93	94	91	89	87	78	77	75	66	65	64	55	54	54	49
2	96	91	87	83	89	85	81	78	74	71	69	63	62	61	54	53	52	48
3	91	85	80	76	85	79	75	72	70	67	65	61	59	58	52	51	51	47
4	86	79	74	70	81	75	70	67	66	63	61	59	57	55	51	50	49	46
5	83	75	69	66	77	71	66	63	64	60	58	57	55	53	50	49	48	46
6	79	71	66	62	74	68	63	60	61	58	55	55	53	51	49	48	47	45
7	76	68	62	59	72	65	60	57	59	56	53	54	51	50	49	47	46	44
8	73	65	60	56	69	62	58	55	57	54	52	52	50	48	48	46	45	44
9	71	62	57	54	67	60	56	53	55	52	50	51	49	47	47	46	45	43
10	68	60	55	52	65	58	54	51	54	51	49	50	48	46	46	45	44	43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2277144
5°	1572216
10°	566621
15°	115642
20°	54762
25°	26893
30°	9685
35°	5120
40°	3478
45°	3210
50°	2993
55°	2667
60°	2270
65°	1751
70°	2164
75°	1525
80°	2273
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.1	32.8
10°-20°	86.4	11.9
20°-30°	23.7	3.3
30°-40°	5.8	0.8
40°-50°	3.4	0.5
50°-60°	2.8	0.4
60°-70°	1.6	0.2
70°-80°	0.9	0.1
80°-90°	0.3	0.0
90°-100°	0.5	0.1
100°-110°	0.9	0.1
110°-120°	1.6	0.2
120°-130°	2.8	0.4
130°-140°	3.4	0.5
140°-150°	5.8	0.8
150°-160°	23.7	3.3
160°-170°	86.4	11.9
170°-180°	237.1	32.8
0°-30°	347.1	48.0
0°-40°	352.9	48.8
0°-60°	359.0	49.6
0°-90°	361.9	50.0
90°-120°	3.1	0.4
90°-150°	15.0	2.1
90°-180°	362.0	50.0
0°-180°	723.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4615	
5°	3174	237
15°	226	86
25°	49	24
35°	8	6
45°	5	3
55°	3	3
65°	2	2
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	2	2
125°	3	3
135°	5	3
145°	8	6
155°	49	24
165°	226	86
175°	3174	237
180°	4615	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4615.4
1°	4520.3
2°	4302.5
3°	3977.2
4°	3583.2
5°	3174.5
6°	2768.1
7°	2358.7
8°	1938.4
9°	1521.2
10°	1131.0
11°	799.6
12°	555.5
13°	391.7
14°	290.5
15°	226.4
17.5°	144.5
20°	104.3
22.5°	76.5
25°	49.4
27.5°	28.6
30°	17.0
32.5°	10.8
35°	8.5
37.5°	7.0
40°	5.4
42.5°	4.6
45°	4.6
47.5°	3.9
50°	3.9
52.5°	3.9
55°	3.1
57.5°	2.3
60°	2.3
62.5°	1.5
65°	1.5
67.5°	1.5
70°	1.5
72.5°	0.8
75°	0.8
77.5°	0.8
80°	0.8
82.5°	0.8
85°	0.0
87.5°	0.0



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CANDELA DISTRIBUTION (continued):

	0°
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.8
100°	0.8
102.5°	0.8
105°	0.8
107.5°	0.8
110°	1.5
112.5°	1.5
115°	1.5
117.5°	1.5
120°	2.3
122.5°	2.3
125°	3.1
127.5°	3.9
130°	3.9
132.5°	3.9
135°	4.6
137.5°	4.6
140°	5.4
142.5°	7.0
145°	8.5
147.5°	10.8
150°	17.0
152.5°	28.6
155°	49.4
157.5°	76.5
160°	104.3
162.5°	144.5
165°	226.4
166°	290.5
167°	391.7
168°	555.5
169°	799.6
170°	1131.0
171°	1521.2
172°	1938.4
173°	2358.7
174°	2768.1
175°	3174.5
176°	3583.2
177°	3977.2
178°	4302.5
179°	4520.3



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CANDELA DISTRIBUTION (continued):

180° $\overbrace{\quad\quad\quad}^{0^\circ}$
4615.4

(END OF REPORT)