

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: P221330

Luminaire Tested: **9002-W2-FL-LED3097-S-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221330
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29417)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9002-W2-FL-LED3097-S-WT-L1-UNV
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, FLUSH 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: 734.9 lumens
Efficiency: N/A
Efficacy: 36.7 lumens/watt
Spacing Criteria (0/90/45): 0.25 / 0.25 / 0.25
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: General Diffuse

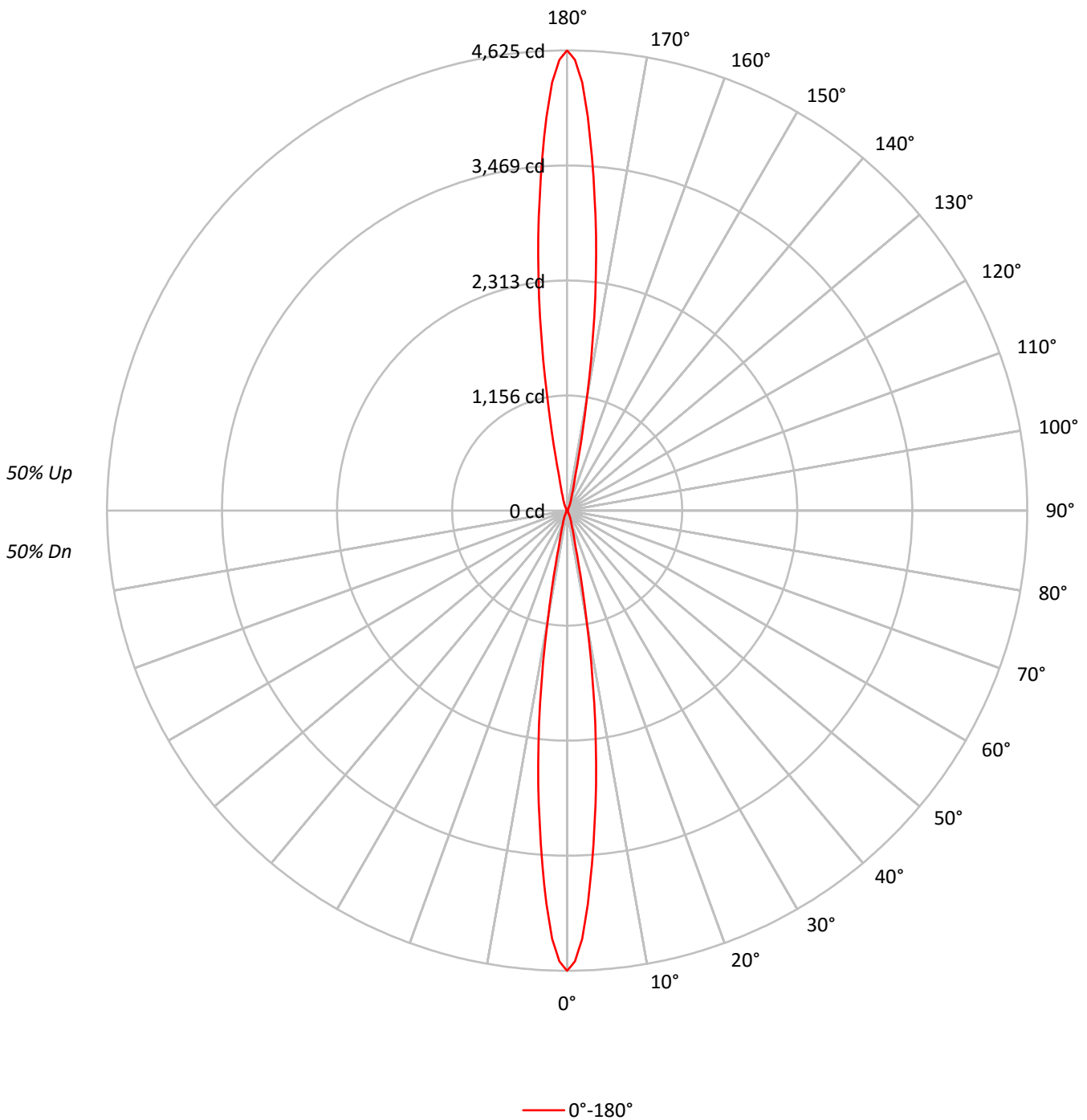
Input Watts (W): 20
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	93	94	91	89	87	78	77	75		66	65	64		55	54	54	49
2	96	91	87	83	89	85	81	78	73	71	69		63	62	60		53	53	52	48
3	91	84	79	76	84	79	75	72	70	67	64		61	59	57		52	51	50	47
4	86	79	74	70	81	75	70	67	66	63	61		58	56	55		51	50	49	46
5	82	75	69	65	77	71	66	63	63	60	58		57	54	53		50	49	48	45
6	79	71	65	61	74	67	63	59	61	58	55		55	53	51		49	48	47	45
7	76	67	62	58	71	64	60	57	59	55	53		53	51	49		48	47	46	44
8	73	65	59	56	69	62	57	54	57	54	51		52	50	48		48	46	45	43
9	70	62	57	54	67	60	55	52	55	52	50		51	49	47		47	45	44	43
10	68	60	55	52	65	58	54	51	54	51	48		50	48	46		46	45	44	42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2281732
5°	1568006
10°	571681
15°	117582
20°	56810
25°	28199
30°	10540
35°	5601
40°	4508
45°	3210
50°	2993
55°	2667
60°	3059
65°	3619
70°	3318
75°	2859
80°	2273
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.6	32.3
10°-20°	87.1	11.8
20°-30°	24.9	3.4
30°-40°	6.5	0.9
40°-50°	3.9	0.5
50°-60°	3.0	0.4
60°-70°	2.8	0.4
70°-80°	1.6	0.2
80°-90°	0.1	0.0
90°-100°	0.1	0.0
100°-110°	1.6	0.2
110°-120°	2.8	0.4
120°-130°	3.0	0.4
130°-140°	3.9	0.5
140°-150°	6.5	0.9
150°-160°	24.9	3.4
160°-170°	87.1	11.8
170°-180°	237.6	32.3
0°-30°	349.5	47.6
0°-40°	356.0	48.4
0°-60°	362.9	49.4
0°-90°	367.4	50.0
90°-120°	4.5	0.6
90°-150°	17.9	2.4
90°-180°	367.0	49.9
0°-180°	734.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4625	
5°	3166	238
15°	230	87
25°	52	25
35°	9	6
45°	5	4
55°	3	3
65°	3	3
75°	2	2
85°	0	0
90°	0	0
95°	0	0
105°	2	2
115°	3	3
125°	3	3
135°	5	4
145°	9	6
155°	52	25
165°	230	87
175°	3166	238
180°	4625	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4624.7
1°	4530.4
2°	4306.4
3°	3962.6
4°	3564.7
5°	3166.0
6°	2772.0
7°	2371.8
8°	1954.6
9°	1536.7
10°	1141.1
11°	800.4
12°	550.9
13°	387.8
14°	289.7
15°	230.2
17.5°	149.9
20°	108.2
22.5°	79.6
25°	51.8
27.5°	30.9
30°	18.5
32.5°	12.4
35°	9.3
37.5°	7.7
40°	7.0
42.5°	5.4
45°	4.6
47.5°	4.6
50°	3.9
52.5°	3.9
55°	3.1
57.5°	3.1
60°	3.1
62.5°	3.1
65°	3.1
67.5°	2.3
70°	2.3
72.5°	2.3
75°	1.5
77.5°	0.8
80°	0.8
82.5°	0.0
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°	0.0
100°	0.8
102.5°	0.8
105°	1.5
107.5°	2.3
110°	2.3
112.5°	2.3
115°	3.1
117.5°	3.1
120°	3.1
122.5°	3.1
125°	3.1
127.5°	3.9
130°	3.9
132.5°	4.6
135°	4.6
137.5°	5.4
140°	7.0
142.5°	7.7
145°	9.3
147.5°	12.4
150°	18.5
152.5°	30.9
155°	51.8
157.5°	79.6
160°	108.2
162.5°	149.9
165°	230.2
166°	289.7
167°	387.8
168°	550.9
169°	800.4
170°	1141.1
171°	1536.7
172°	1954.6
173°	2371.8
174°	2772.0
175°	3166.0
176°	3564.7
177°	3962.6
178°	4306.4
179°	4530.4



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CANDELA DISTRIBUTION (continued):

180° | $\frac{0^\circ}{4624.7}$

(END OF REPORT)