

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: P221314

Luminaire Tested: **9002-W2-FL-LED2797-S-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221314
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-LED2797-S-WT-L1-UNV
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, FLUSH LENS, SPOT OPTIC,
WHITE HOUSING.
Light Source: (1) 2700K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 686.4 lumens
Efficiency: N/A
Efficacy: 34.3 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

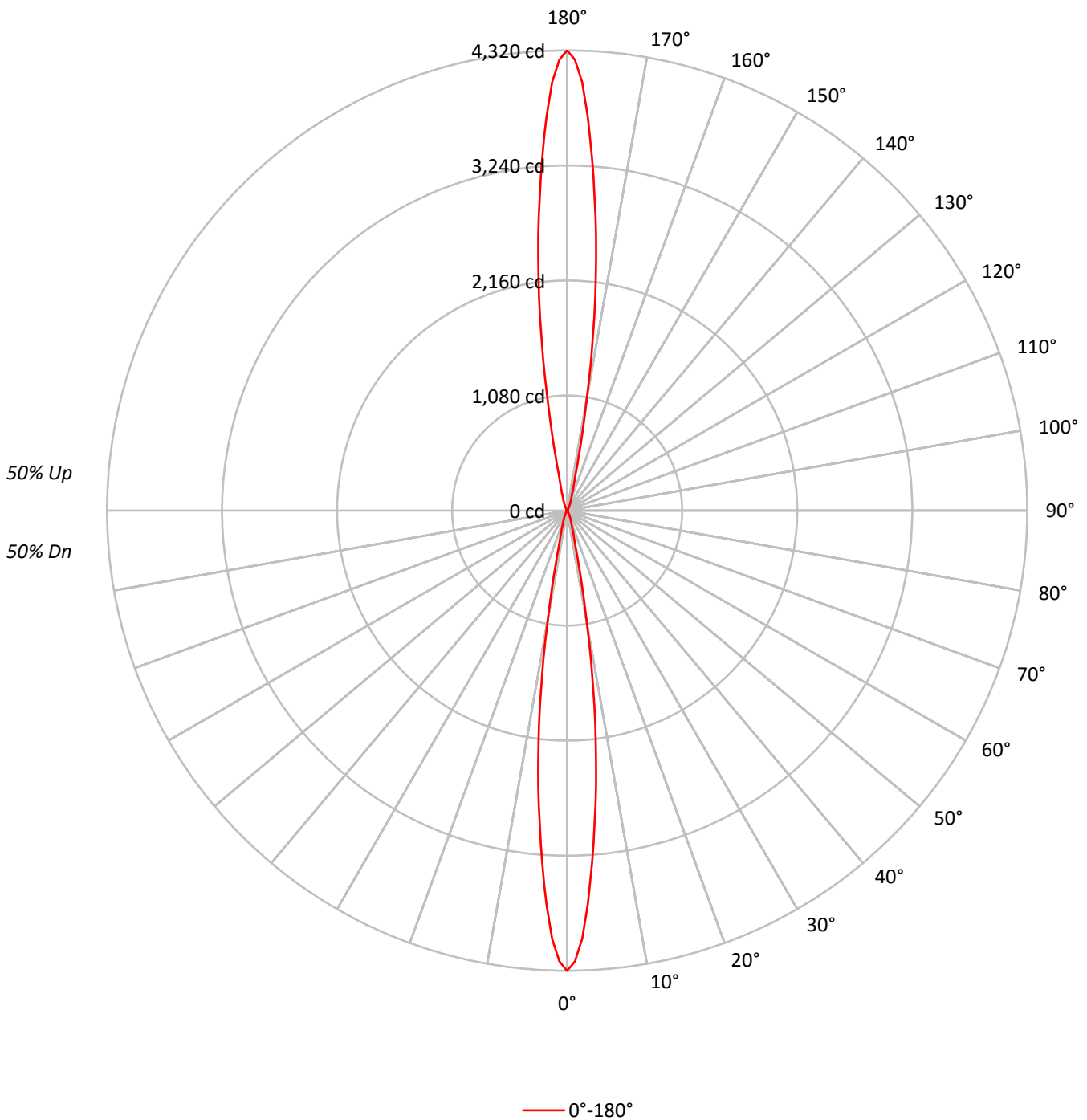
Input Watts (W): 20
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P221314

CATALOG NUMBER: 9002-W2-FL-LED2797-S-WT-L1-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P221314

CATALOG NUMBER: 9002-W2-FL-LED2797-S-WT-L1-UNV

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°	2131301
5°	1464645
10°	534006
15°	109870
20°	53029
25°	26348
30°	9856
35°	5240
40°	4186
45°	3000
50°	2763
55°	2495
60°	2862
65°	3386
70°	3174
75°	2669
80°	1989
85°	0



TEST NUMBER: P221314

CATALOG NUMBER: 9002-W2-FL-LED2797-S-WT-L1-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.0	32.3
10°-20°	81.3	11.8
20°-30°	23.2	3.4
30°-40°	6.1	0.9
40°-50°	3.6	0.5
50°-60°	2.8	0.4
60°-70°	2.6	0.4
70°-80°	1.5	0.2
80°-90°	0.1	0.0
90°-100°	0.1	0.0
100°-110°	1.5	0.2
110°-120°	2.6	0.4
120°-130°	2.8	0.4
130°-140°	3.6	0.5
140°-150°	6.1	0.9
150°-160°	23.2	3.4
160°-170°	81.3	11.8
170°-180°	222.0	32.3
0°-30°	326.5	47.6
0°-40°	332.5	48.4
0°-60°	339.0	49.4
0°-90°	343.2	50.0
90°-120°	4.2	0.6
90°-150°	16.7	2.4
90°-180°	343.0	50.0
0°-180°	686.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4320	
5°	2957	222
15°	215	81
25°	48	23
35°	9	6
45°	4	4
55°	3	3
65°	3	3
75°	1	2
85°	0	0
90°	0	0
95°	0	0
105°	1	2
115°	3	3
125°	3	3
135°	4	4
145°	9	6
155°	48	23
165°	215	81
175°	2957	222
180°	4320	



TEST NUMBER: P221314

CATALOG NUMBER: 9002-W2-FL-LED2797-S-WT-L1-UNV

CANDELA DISTRIBUTION (FULL):

0°	
0°	4319.8
1°	4231.7
2°	4022.5
3°	3701.3
4°	3329.7
5°	2957.3
6°	2589.3
7°	2215.5
8°	1825.8
9°	1435.4
10°	1065.9
11°	747.6
12°	514.5
13°	362.3
14°	270.6
15°	215.1
17.5°	140.0
20°	101.0
22.5°	74.3
25°	48.4
27.5°	28.9
30°	17.3
32.5°	11.5
35°	8.7
37.5°	7.2
40°	6.5
42.5°	5.1
45°	4.3
47.5°	4.3
50°	3.6
52.5°	3.6
55°	2.9
57.5°	2.9
60°	2.9
62.5°	2.9
65°	2.9
67.5°	2.2
70°	2.2
72.5°	2.2
75°	1.4
77.5°	0.7
80°	0.7
82.5°	0.0
85°	0.0
87.5°	0.0



TEST NUMBER: P221314

CATALOG NUMBER: 9002-W2-FL-LED2797-S-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

	0°
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.7
102.5°	0.7
105°	1.4
107.5°	2.2
110°	2.2
112.5°	2.2
115°	2.9
117.5°	2.9
120°	2.9
122.5°	2.9
125°	2.9
127.5°	3.6
130°	3.6
132.5°	4.3
135°	4.3
137.5°	5.1
140°	6.5
142.5°	7.2
145°	8.7
147.5°	11.5
150°	17.3
152.5°	28.9
155°	48.4
157.5°	74.3
160°	101.0
162.5°	140.0
165°	215.1
166°	270.6
167°	362.3
168°	514.5
169°	747.6
170°	1065.9
171°	1435.4
172°	1825.8
173°	2215.5
174°	2589.3
175°	2957.3
176°	3329.7
177°	3701.3
178°	4022.5
179°	4231.7



TEST NUMBER: P221314

CATALOG NUMBER: 9002-W2-FL-LED2797-S-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

180° | $\frac{0^\circ}{4319.8}$

(END OF REPORT)