

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: P221334

Luminaire Tested: **9002-W2-FL-LED3590-F-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221334
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29419)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9002-W2-FL-LED3590-F-WT-L1-UNV
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, FLUSH LENS, FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 3500K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1797.5 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Spacing Criteria (0/90/45): 0.67 / 0.67 / 0.63
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: General Diffuse

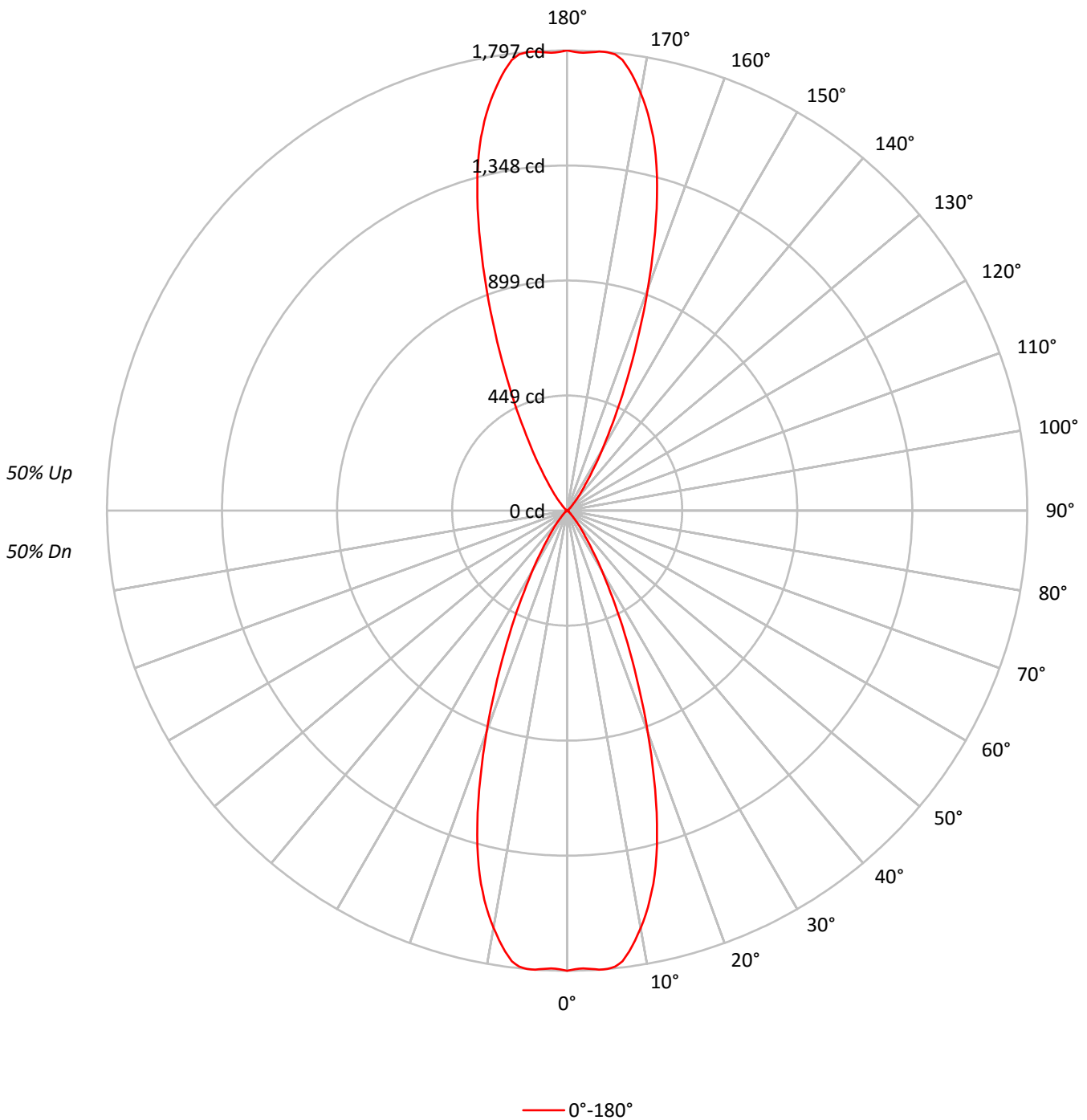
Input Watts (W): 20
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P221334

CATALOG NUMBER: 9002-W2-FL-LED3590-F-WT-L1-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P221334

CATALOG NUMBER: 9002-W2-FL-LED3590-F-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	100	97	94	92	93	90	88	85	77	75	74		65	64	63		54	53	53	47
2	94	89	84	80	87	83	79	75	71	69	66		61	59	58		51	50	49	45
3	88	81	76	71	82	76	71	68	66	63	60		57	55	53		49	48	46	43
4	83	75	69	64	77	70	65	61	62	58	55		54	51	49		47	45	44	40
5	78	69	63	59	73	65	60	56	58	54	51		51	48	46		45	43	41	39
6	74	64	58	54	69	61	56	52	54	50	47		48	45	43		43	41	39	37
7	70	60	54	50	65	57	52	48	51	47	44		46	43	41		41	39	37	35
8	66	56	50	46	62	54	48	45	49	44	42		44	41	39		39	37	35	33
9	63	53	47	43	59	51	45	42	46	42	39		42	39	37		38	35	34	32
10	60	50	44	41	56	48	43	39	44	40	37		40	37	35		36	34	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	886702
5°	890089
10°	829039
15°	691704
20°	482515
25°	290374
30°	153422
35°	73782
40°	35230
45°	16397
50°	9364
55°	5935
60°	5131
65°	5020
70°	5049
75°	4956
80°	4830
85°	5095



TEST NUMBER: P221334

CATALOG NUMBER: 9002-W2-FL-LED3590-F-WT-L1-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.2	9.3
10°-20°	365.4	20.3
20°-30°	247.2	13.8
30°-40°	83.7	4.7
40°-50°	20.5	1.1
50°-60°	6.8	0.4
60°-70°	4.5	0.2
70°-80°	2.7	0.2
80°-90°	0.7	0.0
90°-100°	0.7	0.0
100°-110°	2.7	0.2
110°-120°	4.5	0.2
120°-130°	6.8	0.4
130°-140°	20.5	1.1
140°-150°	83.7	4.7
150°-160°	247.2	13.8
160°-170°	365.4	20.3
170°-180°	167.2	9.3
0°-30°	779.8	43.4
0°-40°	863.5	48.0
0°-60°	890.8	49.6
0°-90°	898.8	50.0
90°-120°	8.0	0.4
90°-150°	119.0	6.6
90°-180°	899.0	50.0
0°-180°	1797.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1797	
5°	1797	167
15°	1354	365
25°	533	247
35°	122	84
45°	24	21
55°	7	7
65°	4	4
75°	3	3
85°	1	1
90°	0	0
95°	1	1
105°	3	3
115°	4	4
125°	7	7
135°	24	21
145°	122	84
155°	533	247
165°	1354	365
175°	1797	167
180°	1797	



TEST NUMBER: P221334

CATALOG NUMBER: 9002-W2-FL-LED3590-F-WT-L1-UNV

CANDELA DISTRIBUTION (FULL):

0°	
0°	1797.2
1°	1791.2
2°	1788.6
3°	1792.0
4°	1797.2
5°	1797.2
6°	1791.2
7°	1772.9
8°	1739.0
9°	1699.1
10°	1654.8
11°	1607.9
12°	1554.0
13°	1495.8
14°	1429.8
15°	1354.2
16°	1273.4
17°	1186.6
18°	1096.2
19°	1009.4
20°	919.0
21°	834.8
22°	752.3
23°	674.1
24°	601.1
25°	533.4
26°	469.9
27°	411.7
28°	358.8
29°	311.8
30°	269.3
32.5°	182.4
35°	122.5
37.5°	82.5
40°	54.7
42.5°	34.7
45°	23.5
47.5°	16.5
50°	12.2
52.5°	8.7
55°	6.9
57.5°	6.1
60°	5.2
62.5°	5.2
65°	4.3



TEST NUMBER: P221334

CATALOG NUMBER: 9002-W2-FL-LED3590-F-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

	0°
67.5°	4.3
70°	3.5
72.5°	3.5
75°	2.6
77.5°	1.7
80°	1.7
82.5°	0.9
85°	0.9
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.9
97.5°	0.9
100°	1.7
102.5°	1.7
105°	2.6
107.5°	3.5
110°	3.5
112.5°	4.3
115°	4.3
117.5°	5.2
120°	5.2
122.5°	6.1
125°	6.9
127.5°	8.7
130°	12.2
132.5°	16.5
135°	23.5
137.5°	34.7
140°	54.7
142.5°	82.5
145°	122.5
147.5°	182.4
150°	269.3
151°	311.8
152°	358.8
153°	411.7
154°	469.9
155°	533.4
156°	601.1
157°	674.1
158°	752.3
159°	834.8
160°	919.0
161°	1009.4



TEST NUMBER: P221334

CATALOG NUMBER: 9002-W2-FL-LED3590-F-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

	0°
162°	1096.2
163°	1186.6
164°	1273.4
165°	1354.2
166°	1429.8
167°	1495.8
168°	1554.0
169°	1607.9
170°	1654.8
171°	1699.1
172°	1739.0
173°	1772.9
174°	1791.2
175°	1797.2
176°	1797.2
177°	1792.0
178°	1788.6
179°	1791.2
180°	1797.2

(END OF REPORT)