

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: P221366

Luminaire Tested: **9002-W2-FL-LED5080-F-WT-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221366  
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-LED5080-F-WT-L1-UNV  
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, FLUSH LENS, FLOOD OPTIC, WHITE HOUSING.  
Light Source: (1) 5000K CCT, 80 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2259.3 lumens  
Efficiency: N/A  
Efficacy: 109.7 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

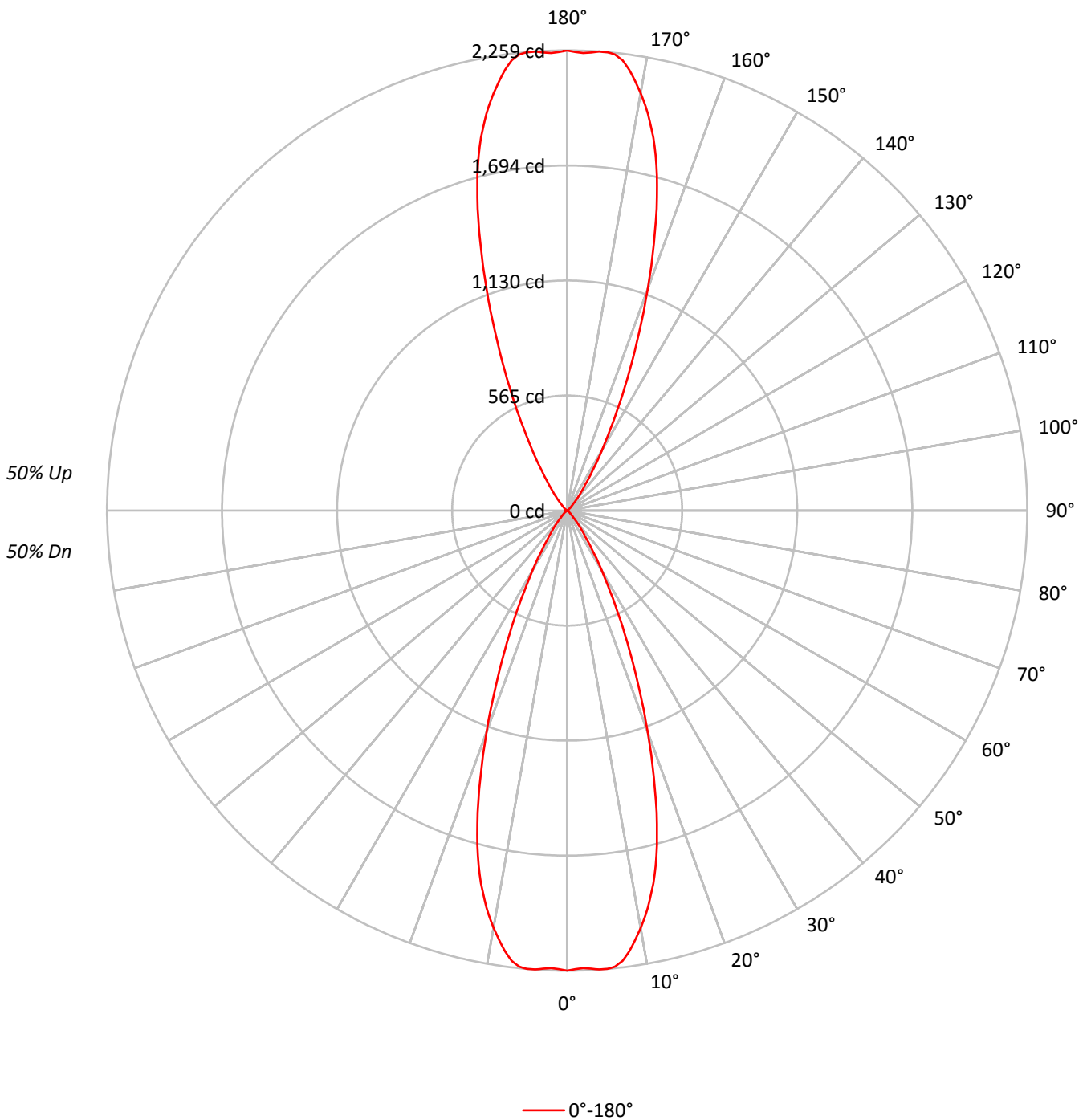
Input Watts (W): 20.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P221366

CATALOG NUMBER: 9002-W2-FL-LED5080-F-WT-L1-UNV

### Luminous Intensity Polar Plot





TEST NUMBER: P221366

CATALOG NUMBER: 9002-W2-FL-LED5080-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	36		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°	1114446
5°	1118703
10°	1041961
15°	869355
20°	606478
25°	364901
30°	192788
35°	92695
40°	44311
45°	20583
50°	11744
55°	7484
60°	6513
65°	6421
70°	6347
75°	6291
80°	6251
85°	6227



TEST NUMBER: P221366

CATALOG NUMBER: 9002-W2-FL-LED5080-F-WT-L1-UNV

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	210.2	9.3
10°-20°	459.3	20.3
20°-30°	310.6	13.7
30°-40°	105.2	4.7
40°-50°	25.8	1.1
50°-60°	8.5	0.4
60°-70°	5.7	0.3
70°-80°	3.5	0.2
80°-90°	0.9	0.0
90°-100°	0.9	0.0
100°-110°	3.5	0.2
110°-120°	5.7	0.3
120°-130°	8.5	0.4
130°-140°	25.8	1.1
140°-150°	105.2	4.7
150°-160°	310.6	13.7
160°-170°	459.3	20.3
170°-180°	210.2	9.3
0°-30°	980.1	43.4
0°-40°	1085.3	48.0
0°-60°	1119.6	49.6
0°-90°	1129.7	50.0
90°-120°	10.1	0.4
90°-150°	149.6	6.6
90°-180°	1130.0	50.0
0°-180°	2259.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2259	
5°	2259	210
15°	1702	459
25°	670	311
35°	154	105
45°	30	26
55°	9	8
65°	6	6
75°	3	3
85°	1	1
90°	0	0
95°	1	1
105°	3	3
115°	6	6
125°	9	8
135°	30	26
145°	154	105
155°	670	311
165°	1702	459
175°	2259	210
180°	2259	



TEST NUMBER: P221366

CATALOG NUMBER: 9002-W2-FL-LED5080-F-WT-L1-UNV

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2258.8
1°	2251.2
2°	2247.9
3°	2252.3
4°	2258.8
5°	2258.8
6°	2251.2
7°	2228.2
8°	2185.7
9°	2135.4
10°	2079.8
11°	2020.8
12°	1953.1
13°	1880.0
14°	1797.0
15°	1702.0
16°	1600.5
17°	1491.3
18°	1377.8
19°	1268.6
20°	1155.1
21°	1049.2
22°	945.4
23°	847.2
24°	755.5
25°	670.3
26°	590.6
27°	517.5
28°	450.9
29°	391.9
30°	338.4
32.5°	229.3
35°	153.9
37.5°	103.7
40°	68.8
42.5°	43.7
45°	29.5
47.5°	20.7
50°	15.3
52.5°	10.9
55°	8.7
57.5°	7.6
60°	6.6
62.5°	6.6
65°	5.5



TEST NUMBER: P221366

CATALOG NUMBER: 9002-W2-FL-LED5080-F-WT-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	5.5
70°	4.4
72.5°	4.4
75°	3.3
77.5°	2.2
80°	2.2
82.5°	1.1
85°	1.1
87.5°	0.0
90°	0.0
92.5°	0.0
95°	1.1
97.5°	1.1
100°	2.2
102.5°	2.2
105°	3.3
107.5°	4.4
110°	4.4
112.5°	5.5
115°	5.5
117.5°	6.6
120°	6.6
122.5°	7.6
125°	8.7
127.5°	10.9
130°	15.3
132.5°	20.7
135°	29.5
137.5°	43.7
140°	68.8
142.5°	103.7
145°	153.9
147.5°	229.3
150°	338.4
151°	391.9
152°	450.9
153°	517.5
154°	590.6
155°	670.3
156°	755.5
157°	847.2
158°	945.4
159°	1049.2
160°	1155.1
161°	1268.6



TEST NUMBER: P221366

CATALOG NUMBER: 9002-W2-FL-LED5080-F-WT-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	0°
162°	1377.8
163°	1491.3
164°	1600.5
165°	1702.0
166°	1797.0
167°	1880.0
168°	1953.1
169°	2020.8
170°	2079.8
171°	2135.4
172°	2185.7
173°	2228.2
174°	2251.2
175°	2258.8
176°	2258.8
177°	2252.3
178°	2247.9
179°	2251.2
180°	2258.8

(END OF REPORT)