

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: P221356

Luminaire Tested: **9002-W2-FL-LED4080-W-WT-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221356  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29420)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 9002-W2-FL-LED4080-W-WT-L1-UNV  
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, FLUSH LENS, WIDE FLOOD OPTIC, WHITE HOUSING.  
Light Source: (1) 4000K CCT, 80 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1930.9 lumens  
Efficiency: N/A  
Efficacy: 96.5 lumens/watt  
Spacing Criteria (0/90/45): 0.87 / 0.87 / 0.88  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: General Diffuse

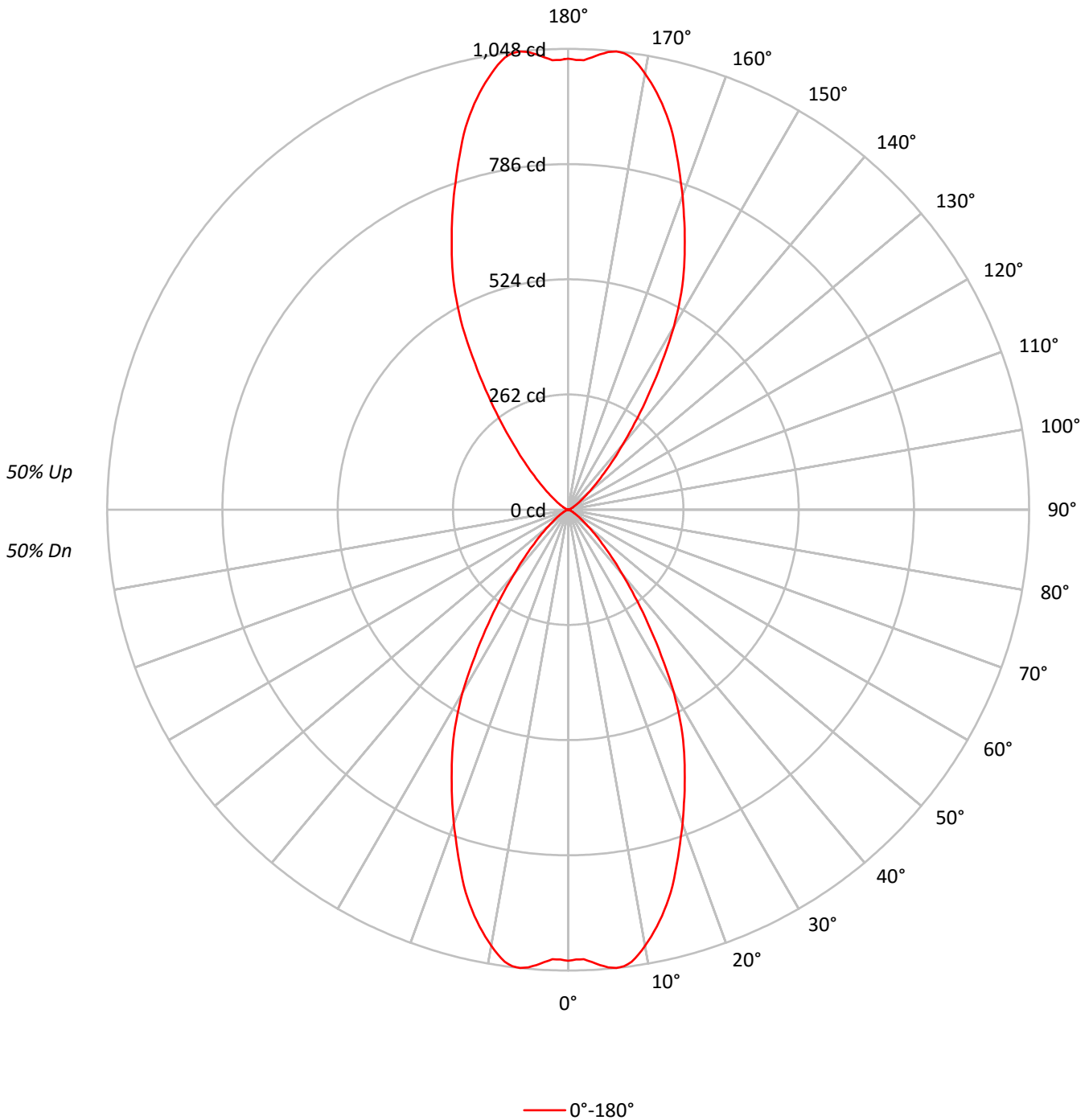
Input Watts (W): 20  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P221356

CATALOG NUMBER: 9002-W2-FL-LED4080-W-WT-L1-UNV

### Luminous Intensity Polar Plot





TEST NUMBER: P221356

CATALOG NUMBER: 9002-W2-FL-LED4080-W-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	96	93	91	92	89	87	84	76	74	73		64	63	62		53	52	52	46
2	93	87	82	78	86	81	77	73	70	67	64		59	57	55		50	48	47	43
3	87	79	73	68	80	74	69	64	64	60	57		55	52	50		46	45	43	39
4	81	72	65	60	75	67	62	57	59	55	51		51	48	45		43	41	40	36
5	75	66	59	54	70	62	56	51	54	50	46		47	44	41		41	38	37	34
6	70	60	53	48	66	57	51	46	50	46	42		44	41	38		38	36	34	31
7	66	55	49	44	61	52	46	42	47	42	39		41	38	35		36	33	32	29
8	62	51	45	40	58	49	43	39	43	39	35		38	35	32		34	31	29	27
9	58	48	41	37	55	45	39	35	41	36	33		36	33	30		32	29	28	26
10	55	44	38	34	52	42	37	33	38	34	30		34	31	28		30	28	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	506207
5°	517551
10°	504498
15°	460216
20°	399033
25°	340240
30°	273459
35°	190328
40°	123660
45°	76054
50°	46054
55°	27526
60°	16775
65°	11674
70°	7213
75°	5719
80°	5683
85°	5661



TEST NUMBER: P221356

CATALOG NUMBER: 9002-W2-FL-LED4080-W-WT-L1-UNV

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.7	5.1
10°-20°	249.4	12.9
20°-30°	284.7	14.7
30°-40°	199.7	10.3
40°-50°	88.1	4.6
50°-60°	30.5	1.6
60°-70°	10.1	0.5
70°-80°	3.6	0.2
80°-90°	0.8	0.0
90°-100°	0.8	0.0
100°-110°	3.6	0.2
110°-120°	10.1	0.5
120°-130°	30.5	1.6
130°-140°	88.1	4.6
140°-150°	199.7	10.3
150°-160°	284.7	14.7
160°-170°	249.4	12.9
170°-180°	98.7	5.1
0°-30°	632.8	32.8
0°-40°	832.5	43.1
0°-60°	951.0	49.3
0°-90°	965.5	50.0
90°-120°	14.5	0.7
90°-150°	332.7	17.2
90°-180°	965.0	50.0
0°-180°	1930.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1026	
5°	1045	99
15°	901	249
25°	625	285
35°	316	200
45°	109	88
55°	32	30
65°	10	10
75°	3	4
85°	1	1
90°	0	0
95°	1	1
105°	3	4
115°	10	10
125°	32	30
135°	109	88
145°	316	200
155°	625	285
165°	901	249
175°	1045	99
180°	1026	



TEST NUMBER: P221356

CATALOG NUMBER: 9002-W2-FL-LED4080-W-WT-L1-UNV

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1026
1°	1023
2°	1023
3°	1030
4°	1038
5°	1045
6°	1048
7°	1046
8°	1038
9°	1024
10°	1007
11°	989
12°	969
13°	948
14°	925
15°	901
16°	873
17°	844
18°	815
19°	787
20°	760
21°	732
22°	705
23°	678
24°	651
25°	625
26°	599
27°	572
28°	542
29°	511
30°	480
32.5°	394
35°	316
37.5°	248
40°	192
42.5°	146
45°	109
47.5°	81
50°	60
52.5°	44
55°	32
57.5°	23
60°	17
62.5°	13
65°	10



TEST NUMBER: P221356

CATALOG NUMBER: 9002-W2-FL-LED4080-W-WT-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	7
70°	5
72.5°	4
75°	3
77.5°	3
80°	2
82.5°	1
85°	1
87.5°	0
90°	0
92.5°	0
95°	1
97.5°	1
100°	2
102.5°	3
105°	3
107.5°	4
110°	5
112.5°	7
115°	10
117.5°	13
120°	17
122.5°	23
125°	32
127.5°	44
130°	60
132.5°	81
135°	109
137.5°	146
140°	192
142.5°	248
145°	316
147.5°	394
150°	480
151°	511
152°	542
153°	572
154°	599
155°	625
156°	651
157°	678
158°	705
159°	732
160°	760
161°	787



TEST NUMBER: P221356

CATALOG NUMBER: 9002-W2-FL-LED4080-W-WT-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	0°
162°	815
163°	844
164°	873
165°	901
166°	925
167°	948
168°	969
169°	989
170°	1007
171°	1024
172°	1038
173°	1046
174°	1048
175°	1045
176°	1038
177°	1030
178°	1023
179°	1023
180°	1026

(END OF REPORT)