

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: P221916

Luminaire Tested: **9004-W2-[RW, RI]-LED5080-F-WT-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221916  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29489)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 9004-W2-[RW, RI]-LED5080-F-WT-L1-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED 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: 2344.3 lumens  
Efficiency: N/A  
Efficacy: 119.0 lumens/watt  
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.57  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: General Diffuse

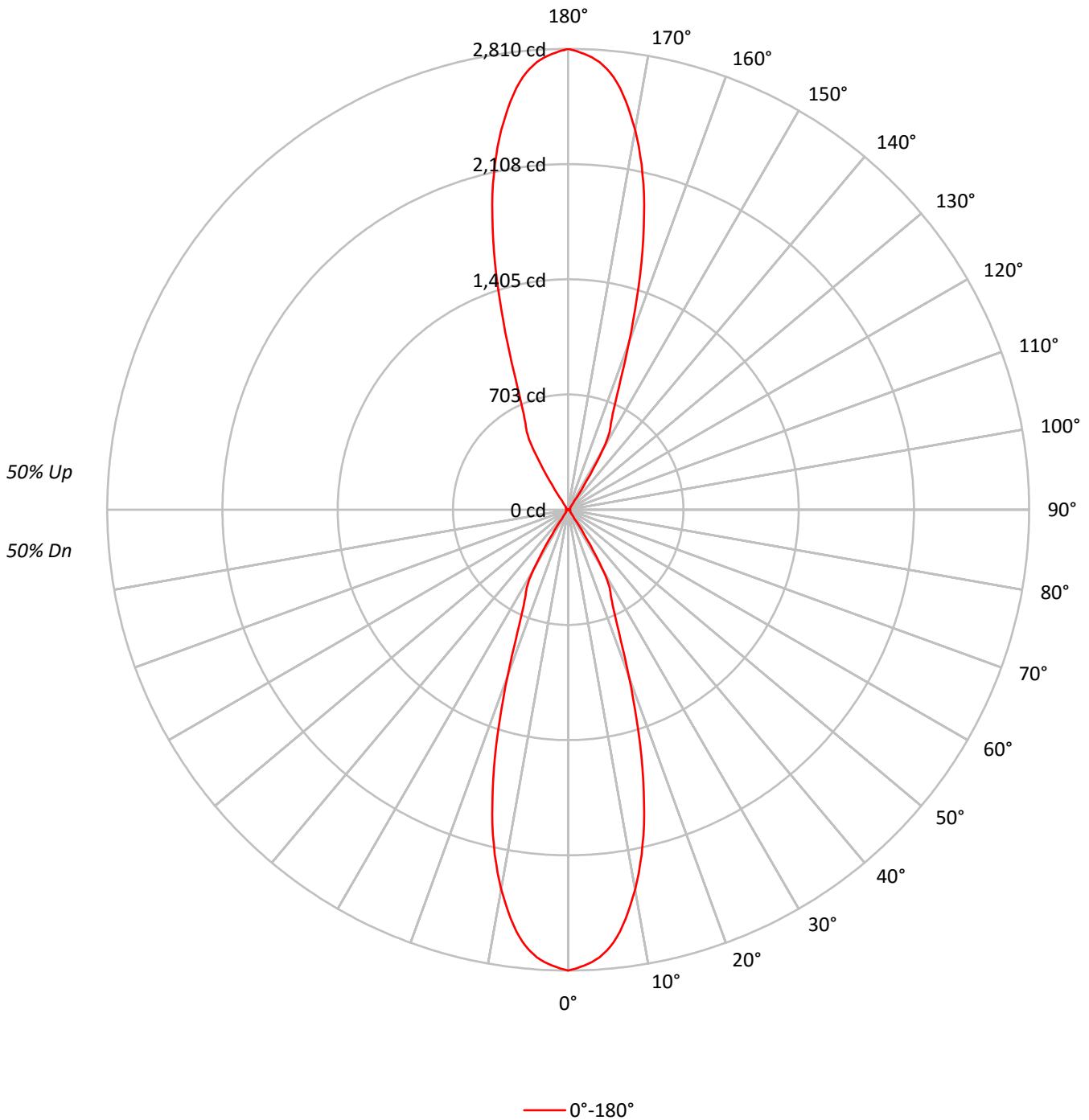
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P221916

CATALOG NUMBER: 9004-W2-[RW, RI]-LED5080-F-WT-L1-UNV

### Luminous Intensity Polar Plot





TEST NUMBER: P221916

CATALOG NUMBER: 9004-W2-[RW, RI]-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	91	93	90	87	85	77	75	74	65	64	63	53	53	52	47
2	94	88	84	80	87	82	78	75	71	68	66	61	59	57	51	50	49	45
3	88	81	76	71	82	76	71	67	66	63	60	57	55	53	49	47	46	42
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	65	58	54	69	61	56	52	55	51	48	49	46	43	43	41	39	37
7	70	60	54	50	66	57	52	48	52	48	45	46	43	41	41	39	38	35
8	66	57	51	47	62	54	49	45	49	45	42	44	41	39	39	37	36	34
9	63	54	48	44	60	51	46	42	46	42	40	42	39	37	38	36	34	33
10	60	51	45	41	57	48	43	40	44	40	38	40	37	35	37	34	33	31

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

	0°
0°	346626
5°	334231
10°	294321
15°	227262
20°	141881
25°	87361
30°	59876
35°	9411
40°	4267
45°	2878
50°	2994
55°	3269
60°	3651
65°	4057
70°	4688
75°	5814
80°	6819
85°	6793



TEST NUMBER: P221916

CATALOG NUMBER: 9004-W2-[RW, RI]-LED5080-F-WT-L1-UNV

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	246.4	10.5
10°-20°	477.9	20.4
20°-30°	309.5	13.2
30°-40°	79.6	3.4
40°-50°	13.6	0.6
50°-60°	13.7	0.6
60°-70°	13.8	0.6
70°-80°	12.4	0.5
80°-90°	5.2	0.2
90°-100°	5.2	0.2
100°-110°	12.4	0.5
110°-120°	13.8	0.6
120°-130°	13.7	0.6
130°-140°	13.6	0.6
140°-150°	79.6	3.4
150°-160°	309.5	13.2
160°-170°	477.9	20.4
170°-180°	246.4	10.5
0°-30°	1033.8	44.1
0°-40°	1113.4	47.5
0°-60°	1140.7	48.7
0°-90°	1172.1	50.0
90°-120°	31.4	1.3
90°-150°	138.3	5.9
90°-180°	1172.0	50.0
0°-180°	2344.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2810	
5°	2699	246
15°	1780	478
25°	642	309
35°	62	80
45°	16	14
55°	15	14
65°	14	14
75°	12	12
85°	5	5
90°	0	1
95°	5	5
105°	12	12
115°	14	14
125°	15	14
135°	16	14
145°	62	80
155°	642	309
165°	1780	478
175°	2699	246
180°	2810	



TEST NUMBER: P221916

CATALOG NUMBER: 9004-W2-[RW, RI]-LED5080-F-WT-L1-UNV

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2810.2
1°	2797.6
2°	2781.1
3°	2761.6
4°	2736.4
5°	2699.4
6°	2652.5
7°	2591.3
8°	2517.9
9°	2436.3
10°	2349.9
11°	2255.2
12°	2151.0
13°	2038.0
14°	1914.3
15°	1779.7
16°	1640.7
17°	1497.8
18°	1354.5
19°	1213.4
20°	1080.9
21°	959.7
22°	854.2
23°	765.2
24°	695.3
25°	641.9
26°	599.7
27°	567.2
28°	539.8
29°	492.0
30°	420.4
32.5°	210.2
35°	62.5
37.5°	40.0
40°	26.5
42.5°	16.9
45°	16.5
47.5°	16.1
50°	15.6
52.5°	15.6
55°	15.2
57.5°	15.2
60°	14.8
62.5°	14.3
65°	13.9



TEST NUMBER: P221916

CATALOG NUMBER: 9004-W2-[RW, RI]-LED5080-F-WT-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	13.5
70°	13.0
72.5°	12.6
75°	12.2
77.5°	10.9
80°	9.6
82.5°	7.4
85°	4.8
87.5°	2.2
90°	0.0
92.5°	2.2
95°	4.8
97.5°	7.4
100°	9.6
102.5°	10.9
105°	12.2
107.5°	12.6
110°	13.0
112.5°	13.5
115°	13.9
117.5°	14.3
120°	14.8
122.5°	15.2
125°	15.2
127.5°	15.6
130°	15.6
132.5°	16.1
135°	16.5
137.5°	16.9
140°	26.5
142.5°	40.0
145°	62.5
147.5°	210.2
150°	420.4
151°	492.0
152°	539.8
153°	567.2
154°	599.7
155°	641.9
156°	695.3
157°	765.2
158°	854.2
159°	959.7
160°	1080.9
161°	1213.4



TEST NUMBER: P221916

CATALOG NUMBER: 9004-W2-[RW, RI]-LED5080-F-WT-L1-UNV

**CANDELA DISTRIBUTION (continued):**

	0°
162°	1354.5
163°	1497.8
164°	1640.7
165°	1779.7
166°	1914.3
167°	2038.0
168°	2151.0
169°	2255.2
170°	2349.9
171°	2436.3
172°	2517.9
173°	2591.3
174°	2652.5
175°	2699.4
176°	2736.4
177°	2761.6
178°	2781.1
179°	2797.6
180°	2810.2

(END OF REPORT)