

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: P222119

Luminaire Tested: **9004-W2-FL-LED4080-S-BK-L3-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P222119  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29496)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 9004-W2-FL-LED4080-S-BK-L3-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, SPOT OPTIC, BLACK HOUSING.  
Light Source: (1) 4000K CCT, 80 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

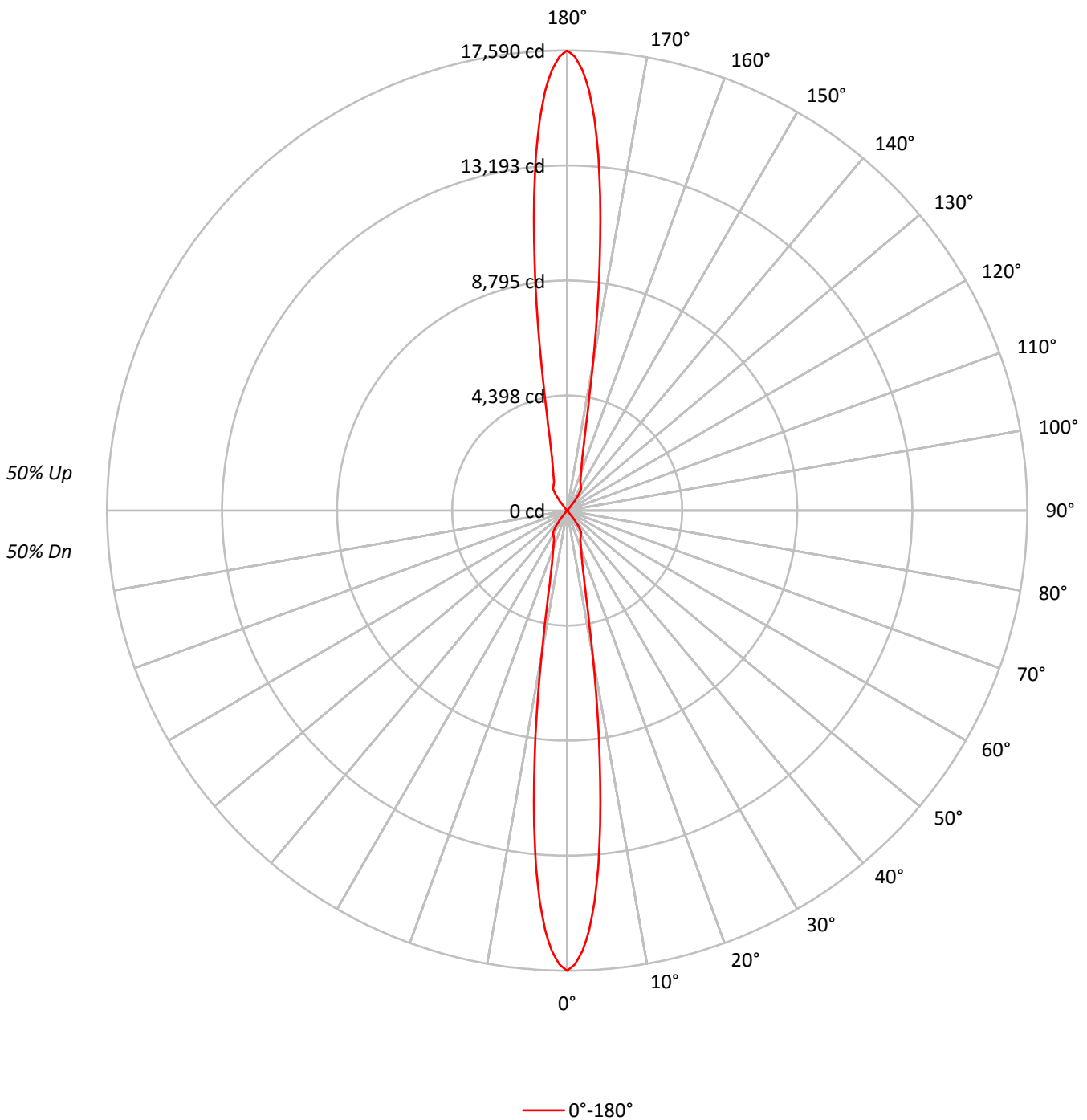
Lumens per Lamp: N/A  
Luminaire Lumens: 5602.5 lumens  
Efficiency: N/A  
Efficacy: 97.9 lumens/watt  
Spacing Criteria (0/90/45): 0.27 / 0.27 / 0.27  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 57.2  
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: P222119  
CATALOG NUMBER: 9004-W2-FL-LED4080-S-BK-L3-UNV

### Luminous Intensity Polar Plot





TEST NUMBER: P222119

CATALOG NUMBER: 9004-W2-FL-LED4080-S-BK-L3-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	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	97	95	92	93	90	88	86	77	76	74	65	64	63	54	54	53	48				
2	95	89	85	81	88	83	80	76	72	69	67	62	60	58	52	51	50	46				
3	89	82	77	73	83	77	72	69	67	64	62	58	56	54	50	49	48	44				
4	84	76	70	66	78	72	67	63	63	60	57	55	53	51	48	46	45	42				
5	79	71	65	60	74	67	62	58	59	56	53	53	50	48	46	44	43	40				
6	75	66	60	56	70	63	58	54	56	52	49	50	47	45	44	43	41	39				
7	71	62	56	52	67	59	54	50	53	49	47	48	45	43	43	41	40	37				
8	68	59	53	49	64	56	51	47	51	47	44	46	43	41	41	39	38	36				
9	65	56	50	46	61	53	48	45	48	45	42	44	41	39	40	38	37	35				
10	62	53	47	44	59	51	46	42	46	43	40	42	40	38	39	37	35	34				

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

	0°
0°	2169650
5°	1688861
10°	703395
15°	297406
20°	204112
25°	162908
30°	150546
35°	123172
40°	25924
45°	5931
50°	2111
55°	1720
60°	987
65°	584
70°	361
75°	477
80°	0
85°	0



TEST NUMBER: P222119

CATALOG NUMBER: 9004-W2-FL-LED4080-S-BK-L3-UNV

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1025.1	18.3
10°-20°	718.4	12.8
20°-30°	566.2	10.1
30°-40°	445.8	8.0
40°-50°	36.0	0.6
50°-60°	7.0	0.1
60°-70°	1.8	0.0
70°-80°	0.9	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.9	0.0
110°-120°	1.8	0.0
120°-130°	7.0	0.1
130°-140°	36.0	0.6
140°-150°	445.8	8.0
150°-160°	566.2	10.1
160°-170°	718.4	12.8
170°-180°	1025.1	18.3
0°-30°	2309.7	41.2
0°-40°	2755.5	49.2
0°-60°	2798.5	50.0
0°-90°	2801.3	50.0
90°-120°	2.8	0.0
90°-150°	491.6	8.8
90°-180°	2801.0	50.0
0°-180°	5602.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	17590	
5°	13640	###
15°	2329	718
25°	1197	566
35°	818	446
45°	34	36
55°	8	7
65°	2	2
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	2	2
125°	8	7
135°	34	36
145°	818	446
155°	1197	566
165°	2329	718
175°	13640	###
180°	17590	



TEST NUMBER: P222119

CATALOG NUMBER: 9004-W2-FL-LED4080-S-BK-L3-UNV

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	17590
1°	17348
2°	16845
3°	16065
4°	14998
5°	13640
6°	12072
7°	10378
8°	8716
9°	7043
10°	5616
11°	4477
12°	3651
13°	3066
14°	2642
15°	2329
16°	2094
17°	1922
18°	1791
19°	1666
20°	1555
21°	1463
22°	1381
23°	1309
24°	1246
25°	1197
26°	1160
27°	1132
28°	1105
29°	1081
30°	1057
32.5°	997
35°	818
37.5°	488
40°	161
42.5°	48
45°	34
47.5°	24
50°	11
52.5°	10
55°	8
57.5°	6
60°	4
62.5°	2
65°	2



TEST NUMBER: P222119

CATALOG NUMBER: 9004-W2-FL-LED4080-S-BK-L3-UNV

**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	1
70°	1
72.5°	1
75°	1
77.5°	1
80°	0
82.5°	0
85°	0
87.5°	0
90°	0
92.5°	0
95°	0
97.5°	0
100°	0
102.5°	1
105°	1
107.5°	1
110°	1
112.5°	1
115°	2
117.5°	2
120°	4
122.5°	6
125°	8
127.5°	10
130°	11
132.5°	24
135°	34
137.5°	48
140°	161
142.5°	488
145°	818
147.5°	997
150°	1057
151°	1081
152°	1105
153°	1132
154°	1160
155°	1197
156°	1246
157°	1309
158°	1381
159°	1463
160°	1555
161°	1666



TEST NUMBER: P222119

CATALOG NUMBER: 9004-W2-FL-LED4080-S-BK-L3-UNV

**CANDELA DISTRIBUTION (continued):**

	0°
162°	1791
163°	1922
164°	2094
165°	2329
166°	2642
167°	3066
168°	3651
169°	4477
170°	5616
171°	7043
172°	8716
173°	10378
174°	12072
175°	13640
176°	14998
177°	16065
178°	16845
179°	17348
180°	17590

(END OF REPORT)