

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: P222108

Luminaire Tested: **9004-W2-FL-LED4080-F-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222108
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29495)
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-F-WT-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 4000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2320.0 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.56
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

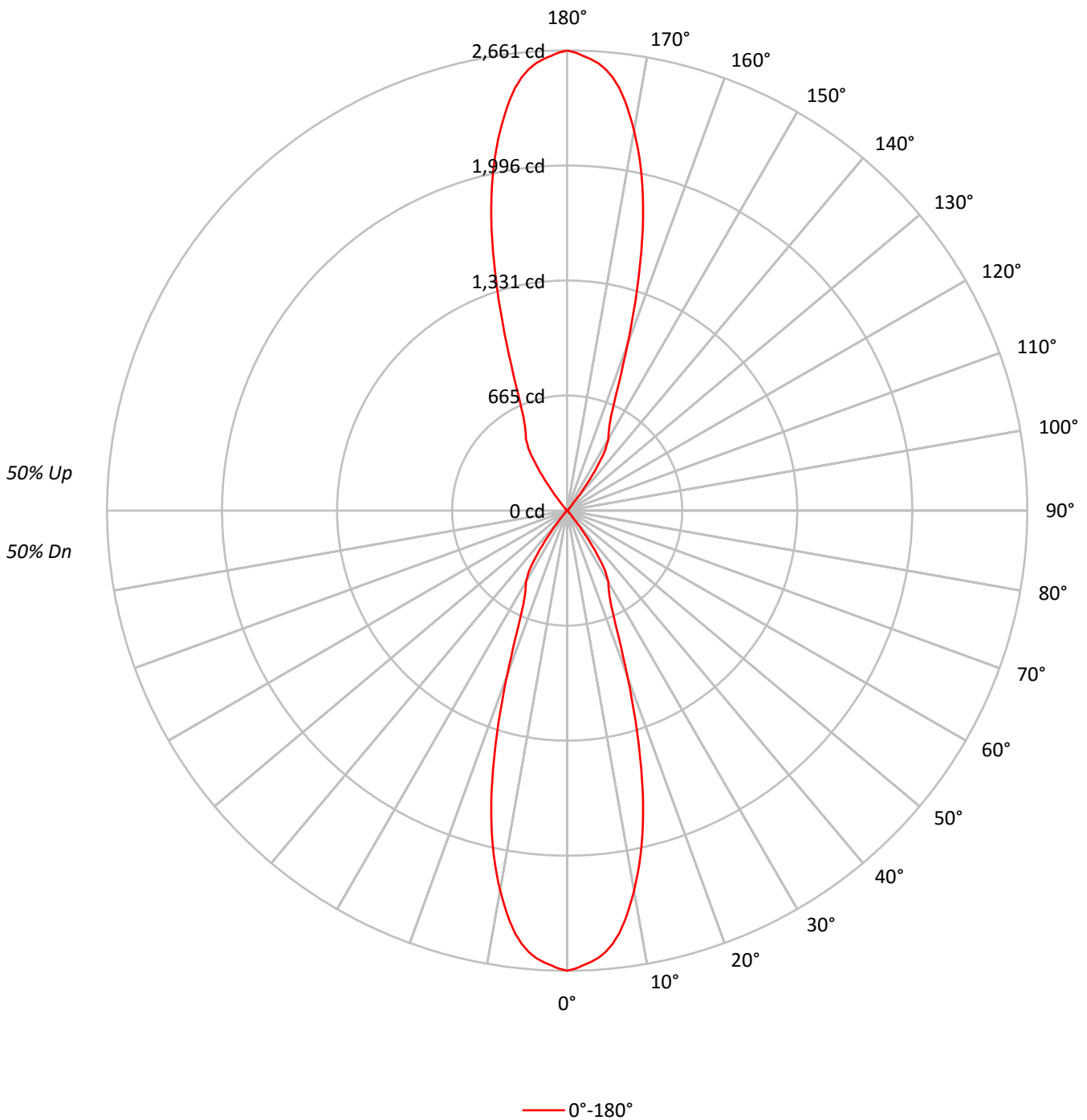
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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	86	77	75	74		65	64	63		54	53	53	48
2	94	89	84	80	87	83	79	76	71	69	67		61	59	58		51	50	50	45
3	88	81	76	72	82	76	72	68	67	63	61		58	55	53		49	48	47	43
4	83	75	69	65	77	71	66	62	62	58	56		54	52	50		47	45	44	41
5	78	70	63	59	73	66	60	56	58	54	51		51	49	46		45	43	42	39
6	74	65	59	54	69	61	56	52	55	51	48		49	46	44		43	41	40	37
7	70	61	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	53	47	44	59	51	46	42	46	42	39		42	39	37		38	36	34	32
10	60	50	45	41	57	48	43	40	44	40	37		40	37	35		36	34	33	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	328198
5°	317132
10°	279442
15°	215769
20°	133939
25°	81699
30°	67753
35°	41364
40°	7004
45°	2547
50°	556
55°	280
60°	197
65°	233
70°	144
75°	191
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.0	10.1
10°-20°	452.5	19.5
20°-30°	294.7	12.7
30°-40°	163.7	7.1
40°-50°	12.8	0.6
50°-60°	1.4	0.1
60°-70°	0.7	0.0
70°-80°	0.4	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.4	0.0
110°-120°	0.7	0.0
120°-130°	1.4	0.1
130°-140°	12.8	0.6
140°-150°	163.7	7.1
150°-160°	294.7	12.7
160°-170°	452.5	19.5
170°-180°	234.0	10.1
0°-30°	981.1	42.3
0°-40°	1144.7	49.3
0°-60°	1158.9	50.0
0°-90°	1160.0	50.0
90°-120°	1.1	0.0
90°-150°	178.9	7.7
90°-180°	1160.0	50.0
0°-180°	2320.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2661	
5°	2561	234
15°	1690	452
25°	600	295
35°	275	164
45°	15	13
55°	1	1
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	1	1
125°	1	1
135°	15	13
145°	275	164
155°	600	295
165°	1690	452
175°	2561	234
180°	2661	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2660.8
1°	2649.1
2°	2632.0
3°	2614.0
4°	2592.7
5°	2561.3
6°	2519.1
7°	2463.5
8°	2394.5
9°	2315.5
10°	2231.1
11°	2139.1
12°	2039.2
13°	1932.2
14°	1814.3
15°	1689.7
16°	1554.3
17°	1413.0
18°	1279.2
19°	1144.6
20°	1020.4
21°	903.4
22°	801.8
23°	716.9
24°	650.9
25°	600.3
26°	563.5
27°	534.3
28°	511.3
29°	492.9
30°	475.7
32.5°	403.4
35°	274.7
37.5°	140.9
40°	43.5
42.5°	20.9
45°	14.6
47.5°	9.2
50°	2.9
52.5°	1.7
55°	1.3
57.5°	1.3
60°	0.8
62.5°	0.8
65°	0.8



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.8
70°	0.4
72.5°	0.4
75°	0.4
77.5°	0.4
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.4
105°	0.4
107.5°	0.4
110°	0.4
112.5°	0.8
115°	0.8
117.5°	0.8
120°	0.8
122.5°	1.3
125°	1.3
127.5°	1.7
130°	2.9
132.5°	9.2
135°	14.6
137.5°	20.9
140°	43.5
142.5°	140.9
145°	274.7
147.5°	403.4
150°	475.7
151°	492.9
152°	511.3
153°	534.3
154°	563.5
155°	600.3
156°	650.9
157°	716.9
158°	801.8
159°	903.4
160°	1020.4
161°	1144.6



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CANDELA DISTRIBUTION (continued):

	0°
162°	1279.2
163°	1413.0
164°	1554.3
165°	1689.7
166°	1814.3
167°	1932.2
168°	2039.2
169°	2139.1
170°	2231.1
171°	2315.5
172°	2394.5
173°	2463.5
174°	2519.1
175°	2561.3
176°	2592.7
177°	2614.0
178°	2632.0
179°	2649.1
180°	2660.8

(END OF REPORT)