

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: P222132

Luminaire Tested: **9004-W2-FL-LED4097-F-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222132
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-LED4097-F-WT-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 4000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1839.6 lumens
Efficiency: N/A
Efficacy: 93.4 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

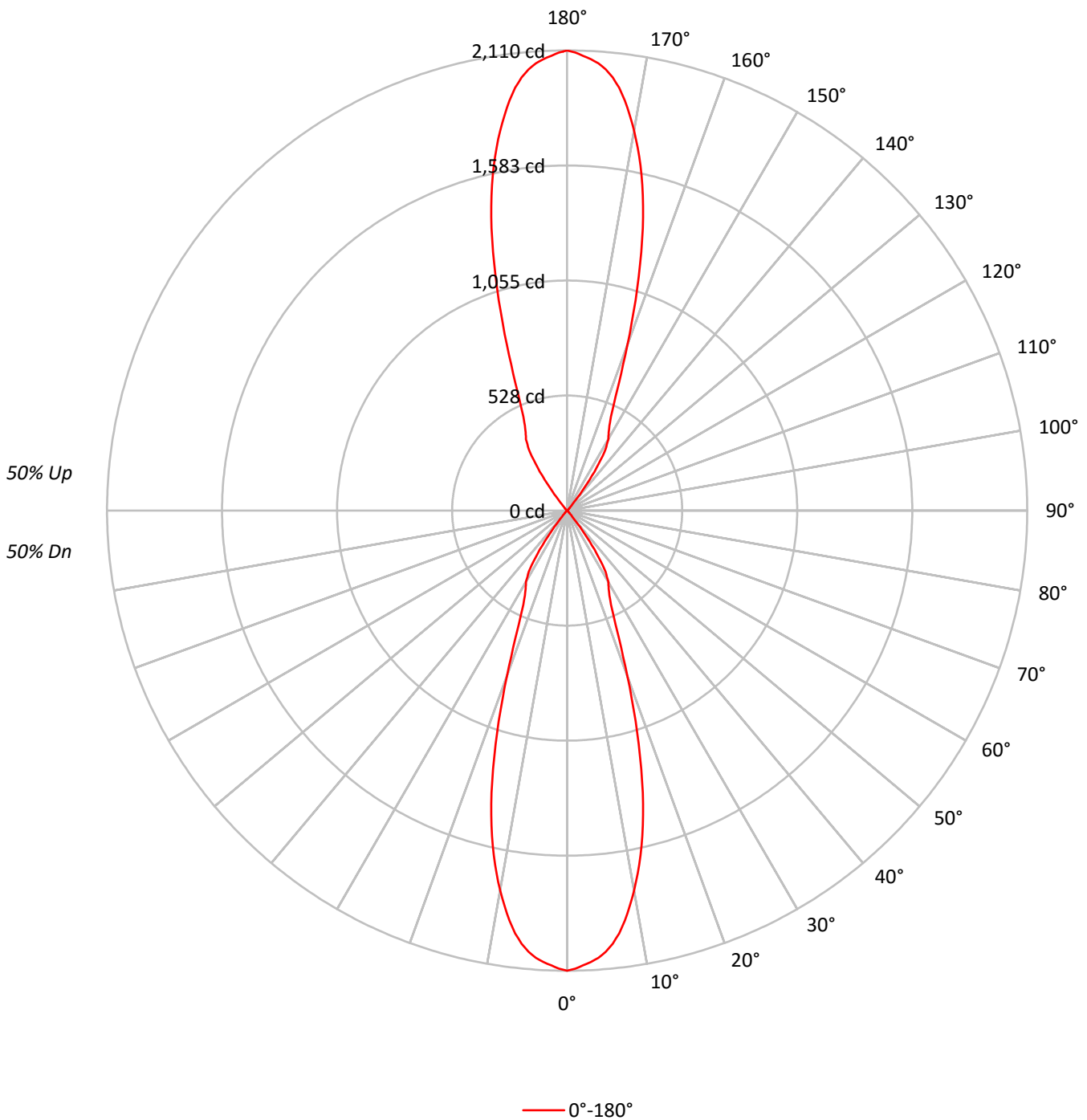
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	260235
5°	251460
10°	221564
15°	171088
20°	106204
25°	64782
30°	53724
35°	32796
40°	5555
45°	2023
50°	441
55°	215
60°	173
65°	204
70°	108
75°	143
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.5	10.1
10°-20°	358.8	19.5
20°-30°	233.6	12.7
30°-40°	129.8	7.1
40°-50°	10.2	0.6
50°-60°	1.1	0.1
60°-70°	0.6	0.0
70°-80°	0.3	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.3	0.0
110°-120°	0.6	0.0
120°-130°	1.1	0.1
130°-140°	10.2	0.6
140°-150°	129.8	7.1
150°-160°	233.6	12.7
160°-170°	358.8	19.5
170°-180°	185.5	10.1
0°-30°	777.9	42.3
0°-40°	907.7	49.3
0°-60°	918.9	49.9
0°-90°	919.8	50.0
90°-120°	0.9	0.1
90°-150°	141.9	7.7
90°-180°	920.0	50.0
0°-180°	1839.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2110	
5°	2031	186
15°	1340	359
25°	476	234
35°	218	130
45°	12	10
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°	12	10
145°	218	130
155°	476	234
165°	1340	359
175°	2031	186
180°	2110	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2109.8
1°	2100.5
2°	2086.9
3°	2072.7
4°	2055.8
5°	2030.9
6°	1997.4
7°	1953.3
8°	1898.6
9°	1836.0
10°	1769.0
11°	1696.1
12°	1616.9
13°	1532.0
14°	1438.6
15°	1339.8
16°	1232.4
17°	1120.4
18°	1014.3
19°	907.6
20°	809.1
21°	716.3
22°	635.8
23°	568.5
24°	516.1
25°	476.0
26°	446.8
27°	423.6
28°	405.4
29°	390.8
30°	377.2
32.5°	319.9
35°	217.8
37.5°	111.7
40°	34.5
42.5°	16.6
45°	11.6
47.5°	7.3
50°	2.3
52.5°	1.3
55°	1.0
57.5°	1.0
60°	0.7
62.5°	0.7
65°	0.7



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.7
70°	0.3
72.5°	0.3
75°	0.3
77.5°	0.3
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°	0.3
105°	0.3
107.5°	0.3
110°	0.3
112.5°	0.7
115°	0.7
117.5°	0.7
120°	0.7
122.5°	1.0
125°	1.0
127.5°	1.3
130°	2.3
132.5°	7.3
135°	11.6
137.5°	16.6
140°	34.5
142.5°	111.7
145°	217.8
147.5°	319.9
150°	377.2
151°	390.8
152°	405.4
153°	423.6
154°	446.8
155°	476.0
156°	516.1
157°	568.5
158°	635.8
159°	716.3
160°	809.1
161°	907.6



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CANDELA DISTRIBUTION (continued):

	0°
162°	1014.3
163°	1120.4
164°	1232.4
165°	1339.8
166°	1438.6
167°	1532.0
168°	1616.9
169°	1696.1
170°	1769.0
171°	1836.0
172°	1898.6
173°	1953.3
174°	1997.4
175°	2030.9
176°	2055.8
177°	2072.7
178°	2086.9
179°	2100.5
180°	2109.8

(END OF REPORT)