

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: P222129

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222129
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29498)
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-BK-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 4000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1903.2 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.56
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

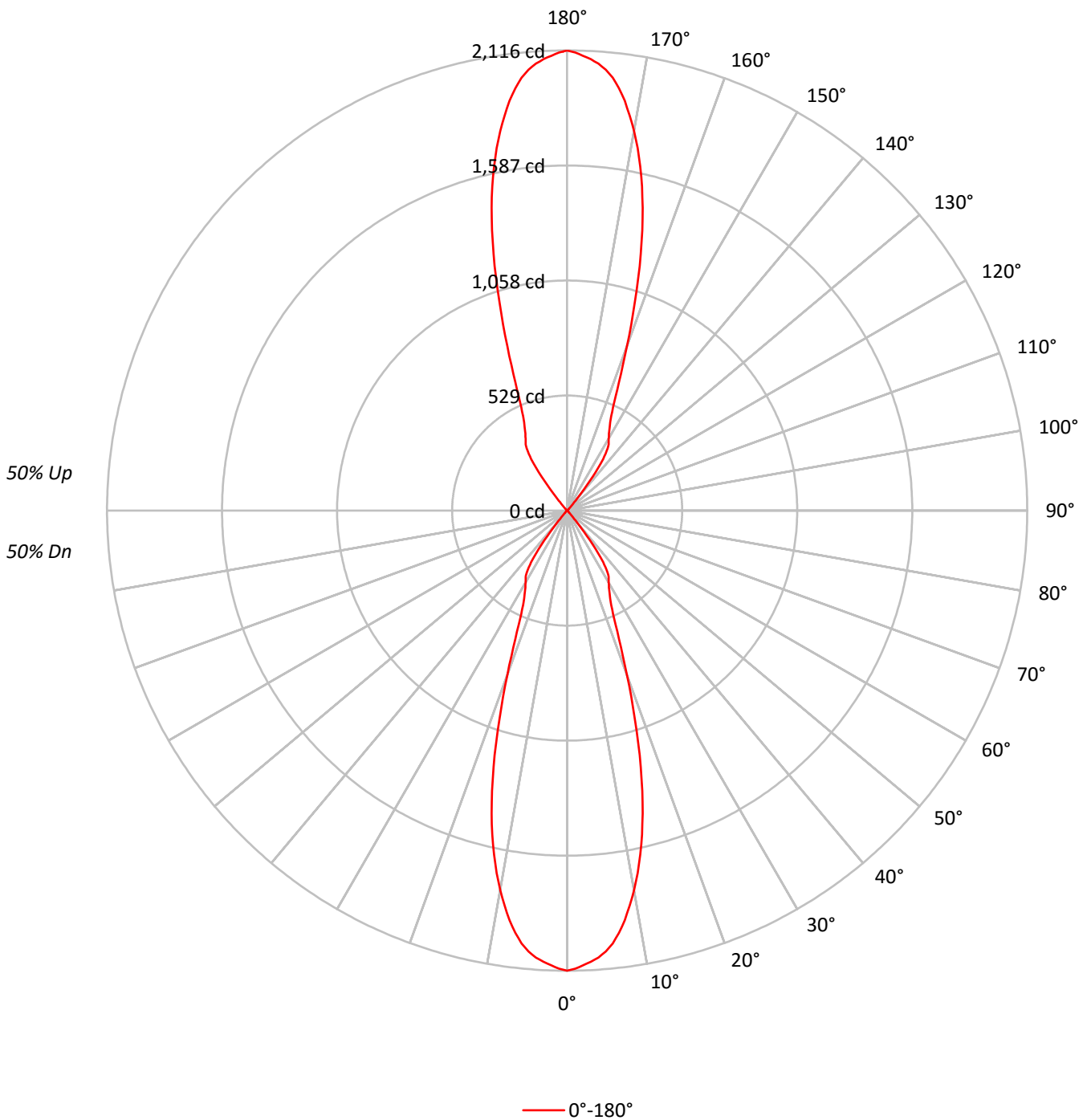
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	66		61	59	58		51	50	49	45
3	88	81	76	71	82	76	71	68	66	63	60		57	55	53		49	48	46	43
4	83	75	69	64	77	70	65	61	62	58	55		54	51	49		47	45	44	40
5	78	69	63	58	73	65	60	56	58	54	51		51	48	46		45	43	41	38
6	74	64	58	54	69	61	55	52	54	50	47		48	45	43		43	41	39	37
7	70	60	54	50	65	57	52	48	51	47	44		46	43	41		41	39	37	35
8	66	56	50	46	62	54	48	44	48	44	41		44	41	38		39	37	35	33
9	63	53	47	43	59	50	45	42	46	42	39		41	38	36		37	35	34	32
10	60	50	44	40	56	48	43	39	44	39	37		40	37	34		36	34	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	260962
5°	252029
10°	221903
15°	170450
20°	105416
25°	65326
30°	54436
35°	43577
40°	9500
45°	2023
50°	384
55°	215
60°	173
65°	88
70°	108
75°	143
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.9	9.8
10°-20°	358.0	18.8
20°-30°	235.1	12.4
30°-40°	158.5	8.3
40°-50°	12.5	0.7
50°-60°	0.9	0.0
60°-70°	0.4	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°	0.4	0.0
120°-130°	0.9	0.0
130°-140°	12.5	0.7
140°-150°	158.5	8.3
150°-160°	235.1	12.4
160°-170°	358.0	18.8
170°-180°	185.9	9.8
0°-30°	778.9	40.9
0°-40°	937.5	49.3
0°-60°	950.9	50.0
0°-90°	951.6	50.0
90°-120°	0.7	0.0
90°-150°	172.7	9.1
90°-180°	952.0	50.0
0°-180°	1903.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2116	
5°	2036	186
15°	1335	358
25°	480	235
35°	289	159
45°	12	13
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	0	0
125°	1	1
135°	12	13
145°	289	159
155°	480	235
165°	1335	358
175°	2036	186
180°	2116	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2115.7
1°	2106.5
2°	2092.9
3°	2078.0
4°	2060.4
5°	2035.5
6°	2001.4
7°	1957.0
8°	1902.3
9°	1839.0
10°	1771.7
11°	1697.8
12°	1617.2
13°	1529.4
14°	1435.9
15°	1334.8
16°	1228.4
17°	1118.4
18°	1008.3
19°	904.9
20°	803.1
21°	715.0
22°	635.8
23°	570.1
24°	519.4
25°	480.0
26°	451.5
27°	429.6
28°	411.0
29°	395.8
30°	382.2
32.5°	353.7
35°	289.4
37.5°	172.0
40°	59.0
42.5°	17.6
45°	11.6
47.5°	7.3
50°	2.0
52.5°	1.0
55°	1.0
57.5°	0.7
60°	0.7
62.5°	0.7
65°	0.3



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.3
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°	0.3
115°	0.3
117.5°	0.7
120°	0.7
122.5°	0.7
125°	1.0
127.5°	1.0
130°	2.0
132.5°	7.3
135°	11.6
137.5°	17.6
140°	59.0
142.5°	172.0
145°	289.4
147.5°	353.7
150°	382.2
151°	395.8
152°	411.0
153°	429.6
154°	451.5
155°	480.0
156°	519.4
157°	570.1
158°	635.8
159°	715.0
160°	803.1
161°	904.9



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CANDELA DISTRIBUTION (continued):

	0°
162°	1008.3
163°	1118.4
164°	1228.4
165°	1334.8
166°	1435.9
167°	1529.4
168°	1617.2
169°	1697.8
170°	1771.7
171°	1839.0
172°	1902.3
173°	1957.0
174°	2001.4
175°	2035.5
176°	2060.4
177°	2078.0
178°	2092.9
179°	2106.5
180°	2115.7

(END OF REPORT)