

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: P222144

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222144
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-LED4097-S-WT-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, SPOT OPTIC, WHITE HOUSING.
Light Source: (1) 4000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1857.0 lumens
Efficiency: N/A
Efficacy: 94.3 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

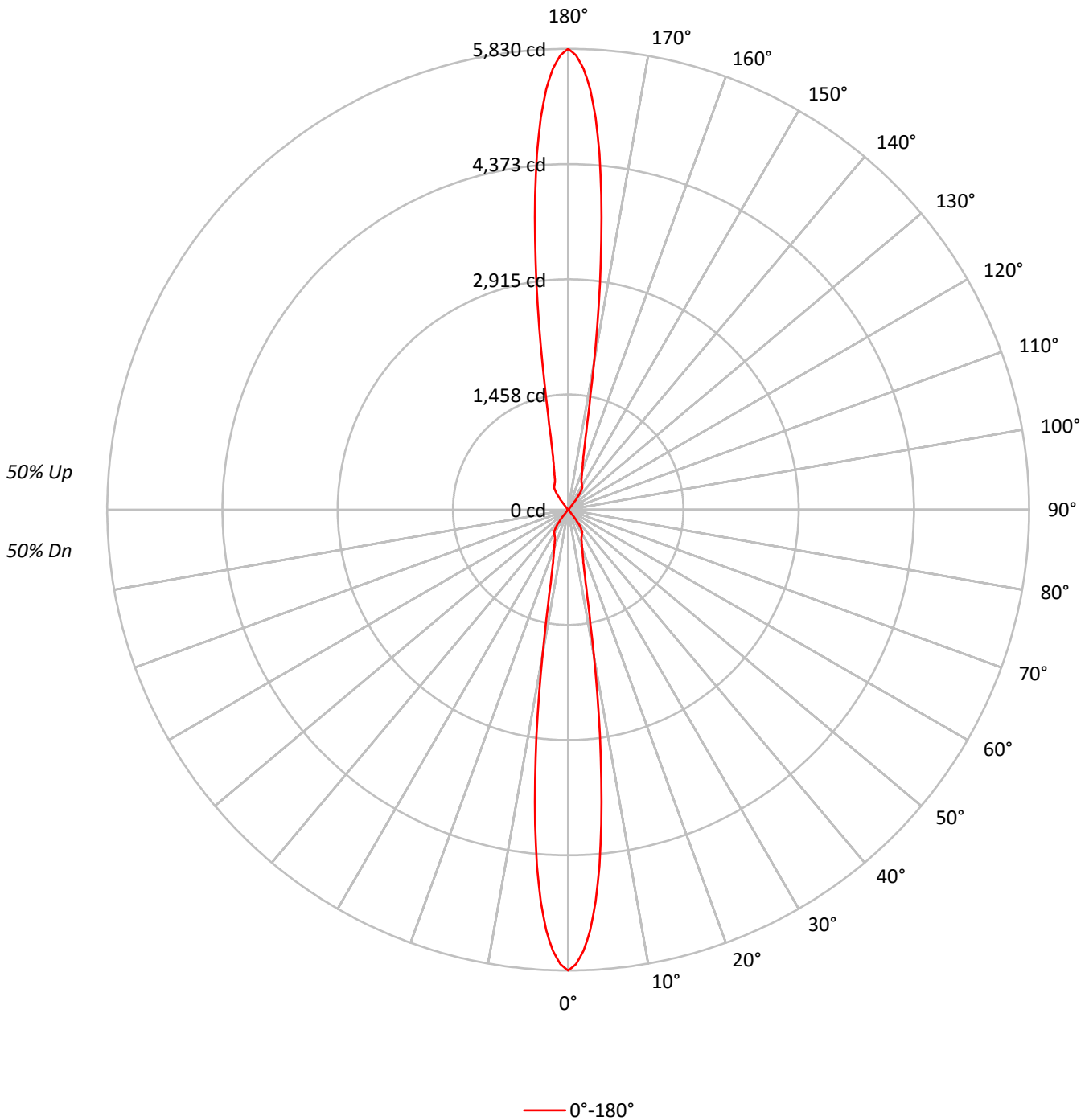
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	719167
5°	559800
10°	233150
15°	98582
20°	67652
25°	54003
30°	49907
35°	40821
40°	8598
45°	1971
50°	691
55°	581
60°	321
65°	204
70°	108
75°	143
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.8	18.3
10°-20°	238.1	12.8
20°-30°	187.7	10.1
30°-40°	147.8	8.0
40°-50°	11.9	0.6
50°-60°	2.3	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°	2.3	0.1
130°-140°	11.9	0.6
140°-150°	147.8	8.0
150°-160°	187.7	10.1
160°-170°	238.1	12.8
170°-180°	339.8	18.3
0°-30°	765.6	41.2
0°-40°	913.4	49.2
0°-60°	927.6	50.0
0°-90°	928.5	50.0
90°-120°	0.9	0.0
90°-150°	162.9	8.8
90°-180°	929.0	50.0
0°-180°	1857.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5830	
5°	4521	340
15°	772	238
25°	397	188
35°	271	148
45°	11	12
55°	3	2
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	1	1
125°	3	2
135°	11	12
145°	271	148
155°	397	188
165°	772	238
175°	4521	340
180°	5830	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5830.5
1°	5750.3
2°	5583.5
3°	5325.0
4°	4971.3
5°	4521.2
6°	4001.4
7°	3439.9
8°	2889.0
9°	2334.5
10°	1861.5
11°	1484.0
12°	1210.2
13°	1016.3
14°	875.7
15°	772.0
16°	694.1
17°	637.1
18°	593.7
19°	552.2
20°	515.4
21°	484.9
22°	457.8
23°	433.9
24°	413.0
25°	396.8
26°	384.5
27°	375.2
28°	366.3
29°	358.3
30°	350.4
32.5°	330.5
35°	271.1
37.5°	161.8
40°	53.4
42.5°	15.9
45°	11.3
47.5°	8.0
50°	3.6
52.5°	3.3
55°	2.7
57.5°	2.0
60°	1.3
62.5°	0.7
65°	0.7



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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°	0.7
117.5°	0.7
120°	1.3
122.5°	2.0
125°	2.7
127.5°	3.3
130°	3.6
132.5°	8.0
135°	11.3
137.5°	15.9
140°	53.4
142.5°	161.8
145°	271.1
147.5°	330.5
150°	350.4
151°	358.3
152°	366.3
153°	375.2
154°	384.5
155°	396.8
156°	413.0
157°	433.9
158°	457.8
159°	484.9
160°	515.4
161°	552.2



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CANDELA DISTRIBUTION (continued):

	0°
162°	593.7
163°	637.1
164°	694.1
165°	772.0
166°	875.7
167°	1016.3
168°	1210.2
169°	1484.0
170°	1861.5
171°	2334.5
172°	2889.0
173°	3439.9
174°	4001.4
175°	4521.2
176°	4971.3
177°	5325.0
178°	5583.5
179°	5750.3
180°	5830.5

(END OF REPORT)