

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: P222048

Luminaire Tested: **9004-W2-FL-LED3097-S-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222048
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-LED3097-S-WT-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, SPOT OPTIC, WHITE HOUSING.
Light Source: (1) 3000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1653.2 lumens
Efficiency: N/A
Efficacy: 83.9 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

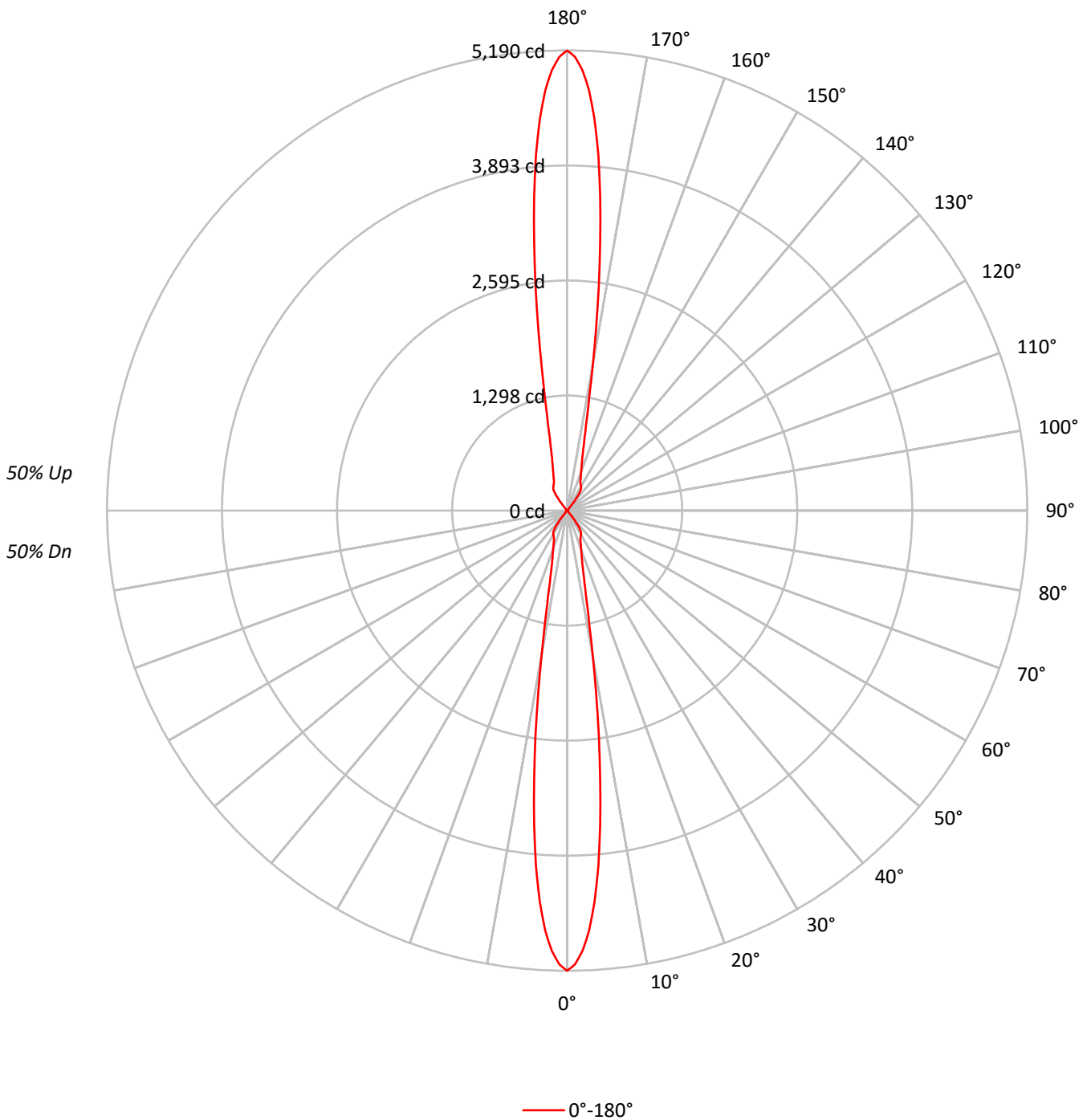
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	79	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°	640201
5°	498325
10°	207549
15°	87753
20°	60223
25°	48069
30°	44423
35°	36349
40°	7648
45°	1744
50°	614
55°	516
60°	296
65°	175
70°	108
75°	143
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.5	18.3
10°-20°	212.0	12.8
20°-30°	167.1	10.1
30°-40°	131.5	8.0
40°-50°	10.6	0.6
50°-60°	2.1	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°	2.1	0.1
130°-140°	10.6	0.6
140°-150°	131.5	8.0
150°-160°	167.1	10.1
160°-170°	212.0	12.8
170°-180°	302.5	18.3
0°-30°	681.5	41.2
0°-40°	813.1	49.2
0°-60°	825.8	49.9
0°-90°	826.6	50.0
90°-120°	0.8	0.1
90°-150°	145.1	8.8
90°-180°	827.0	50.0
0°-180°	1653.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5190	
5°	4025	302
15°	687	212
25°	353	167
35°	241	132
45°	10	11
55°	2	2
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	1	1
125°	2	2
135°	10	11
145°	241	132
155°	353	167
165°	687	212
175°	4025	302
180°	5190	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5190.3
1°	5118.8
2°	4970.4
3°	4740.3
4°	4425.4
5°	4024.7
6°	3562.1
7°	3062.2
8°	2571.8
9°	2078.2
10°	1657.1
11°	1321.0
12°	1077.3
13°	904.7
14°	779.6
15°	687.2
16°	617.9
17°	567.1
18°	528.5
19°	491.6
20°	458.8
21°	431.7
22°	407.5
23°	386.2
24°	367.7
25°	353.2
26°	342.3
27°	334.0
28°	326.1
29°	319.0
30°	311.9
32.5°	294.2
35°	241.4
37.5°	144.0
40°	47.5
42.5°	14.2
45°	10.0
47.5°	7.1
50°	3.2
52.5°	3.0
55°	2.4
57.5°	1.8
60°	1.2
62.5°	0.6
65°	0.6



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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°	0.6
117.5°	0.6
120°	1.2
122.5°	1.8
125°	2.4
127.5°	3.0
130°	3.2
132.5°	7.1
135°	10.0
137.5°	14.2
140°	47.5
142.5°	144.0
145°	241.4
147.5°	294.2
150°	311.9
151°	319.0
152°	326.1
153°	334.0
154°	342.3
155°	353.2
156°	367.7
157°	386.2
158°	407.5
159°	431.7
160°	458.8
161°	491.6



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CANDELA DISTRIBUTION (continued):

	0°
162°	528.5
163°	567.1
164°	617.9
165°	687.2
166°	779.6
167°	904.7
168°	1077.3
169°	1321.0
170°	1657.1
171°	2078.2
172°	2571.8
173°	3062.2
174°	3562.1
175°	4024.7
176°	4425.4
177°	4740.3
178°	4970.4
179°	5118.8
180°	5190.3

(END OF REPORT)