

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: P222033

Luminaire Tested: **9004-W2-FL-LED3097-F-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222033
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-LED3097-F-BK-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1694.2 lumens
Efficiency: N/A
Efficacy: 86.0 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

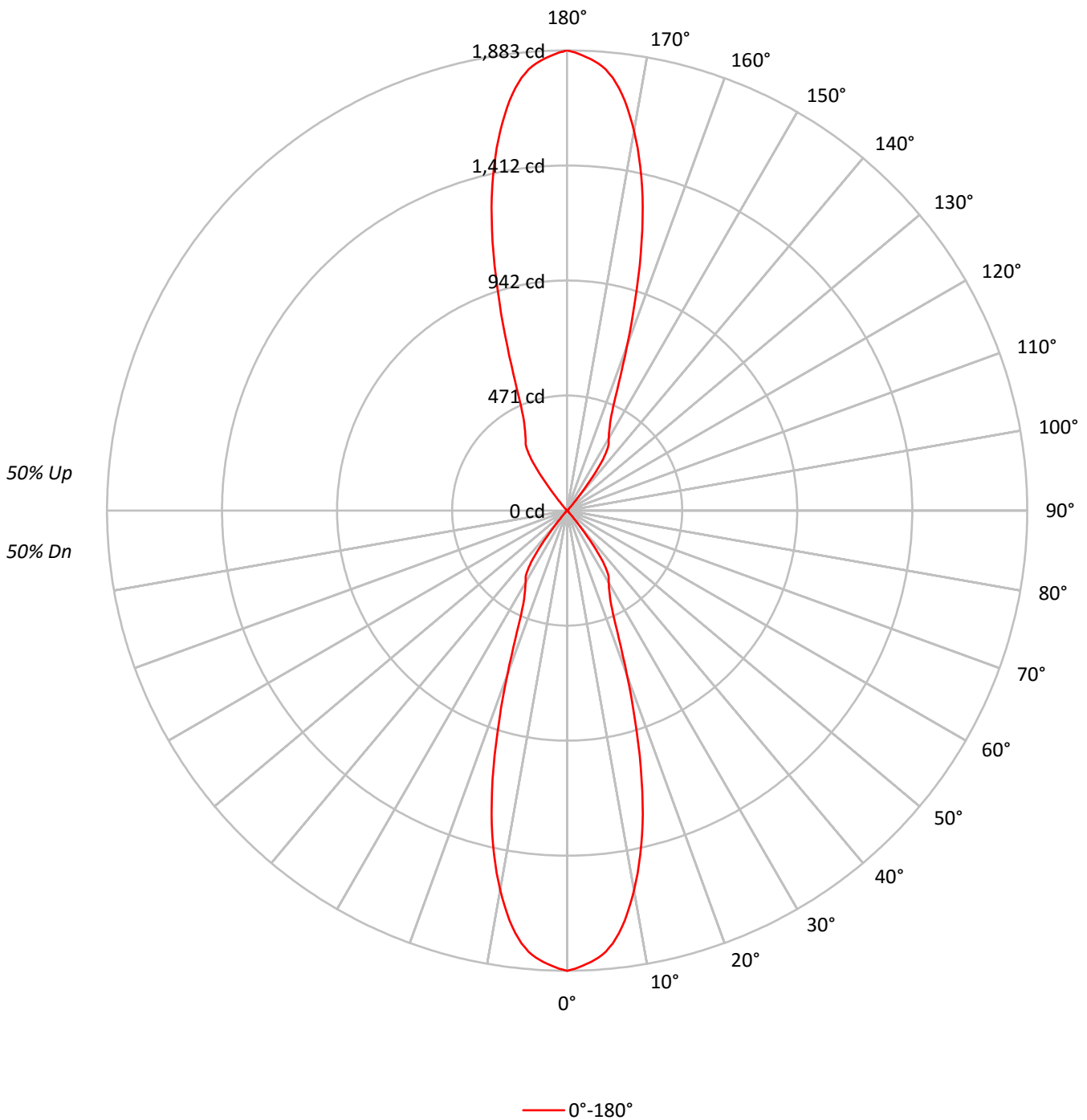
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	232309
5°	224356
10°	197529
15°	151729
20°	93852
25°	58154
30°	48454
35°	38789
40°	8453
45°	1797
50°	345
55°	194
60°	148
65°	88
70°	108
75°	143
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.5	9.8
10°-20°	318.6	18.8
20°-30°	209.3	12.4
30°-40°	141.1	8.3
40°-50°	11.1	0.7
50°-60°	0.8	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°	0.8	0.0
130°-140°	11.1	0.7
140°-150°	141.1	8.3
150°-160°	209.3	12.4
160°-170°	318.6	18.8
170°-180°	165.5	9.8
0°-30°	693.4	40.9
0°-40°	834.5	49.3
0°-60°	846.4	50.0
0°-90°	847.1	50.0
90°-120°	0.7	0.0
90°-150°	153.7	9.1
90°-180°	847.0	50.0
0°-180°	1694.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1883	
5°	1812	165
15°	1188	319
25°	427	209
35°	258	141
45°	10	11
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°	10	11
145°	258	141
155°	427	209
165°	1188	319
175°	1812	165
180°	1883	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1883.4
1°	1875.2
2°	1863.1
3°	1849.8
4°	1834.1
5°	1812.0
6°	1781.6
7°	1742.1
8°	1693.4
9°	1637.0
10°	1577.1
11°	1511.3
12°	1439.6
13°	1361.4
14°	1278.2
15°	1188.2
16°	1093.5
17°	995.6
18°	897.6
19°	805.5
20°	715.0
21°	636.5
22°	565.9
23°	507.5
24°	462.4
25°	427.3
26°	401.9
27°	382.4
28°	365.9
29°	352.3
30°	340.2
32.5°	314.8
35°	257.6
37.5°	153.1
40°	52.5
42.5°	15.6
45°	10.3
47.5°	6.5
50°	1.8
52.5°	0.9
55°	0.9
57.5°	0.6
60°	0.6
62.5°	0.6
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°	0.6
120°	0.6
122.5°	0.6
125°	0.9
127.5°	0.9
130°	1.8
132.5°	6.5
135°	10.3
137.5°	15.6
140°	52.5
142.5°	153.1
145°	257.6
147.5°	314.8
150°	340.2
151°	352.3
152°	365.9
153°	382.4
154°	401.9
155°	427.3
156°	462.4
157°	507.5
158°	565.9
159°	636.5
160°	715.0
161°	805.5



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CANDELA DISTRIBUTION (continued):

	0°
162°	897.6
163°	995.6
164°	1093.5
165°	1188.2
166°	1278.2
167°	1361.4
168°	1439.6
169°	1511.3
170°	1577.1
171°	1637.0
172°	1693.4
173°	1742.1
174°	1781.6
175°	1812.0
176°	1834.1
177°	1849.8
178°	1863.1
179°	1875.2
180°	1883.4

(END OF REPORT)