

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: P221808

Luminaire Tested: **9004-W2-[RW, RI]-LED3097-S-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221808
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29487)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9004-W2-[RW, RI]-LED3097-S-WT-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED 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: 1558.6 lumens
Efficiency: N/A
Efficacy: 79.1 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

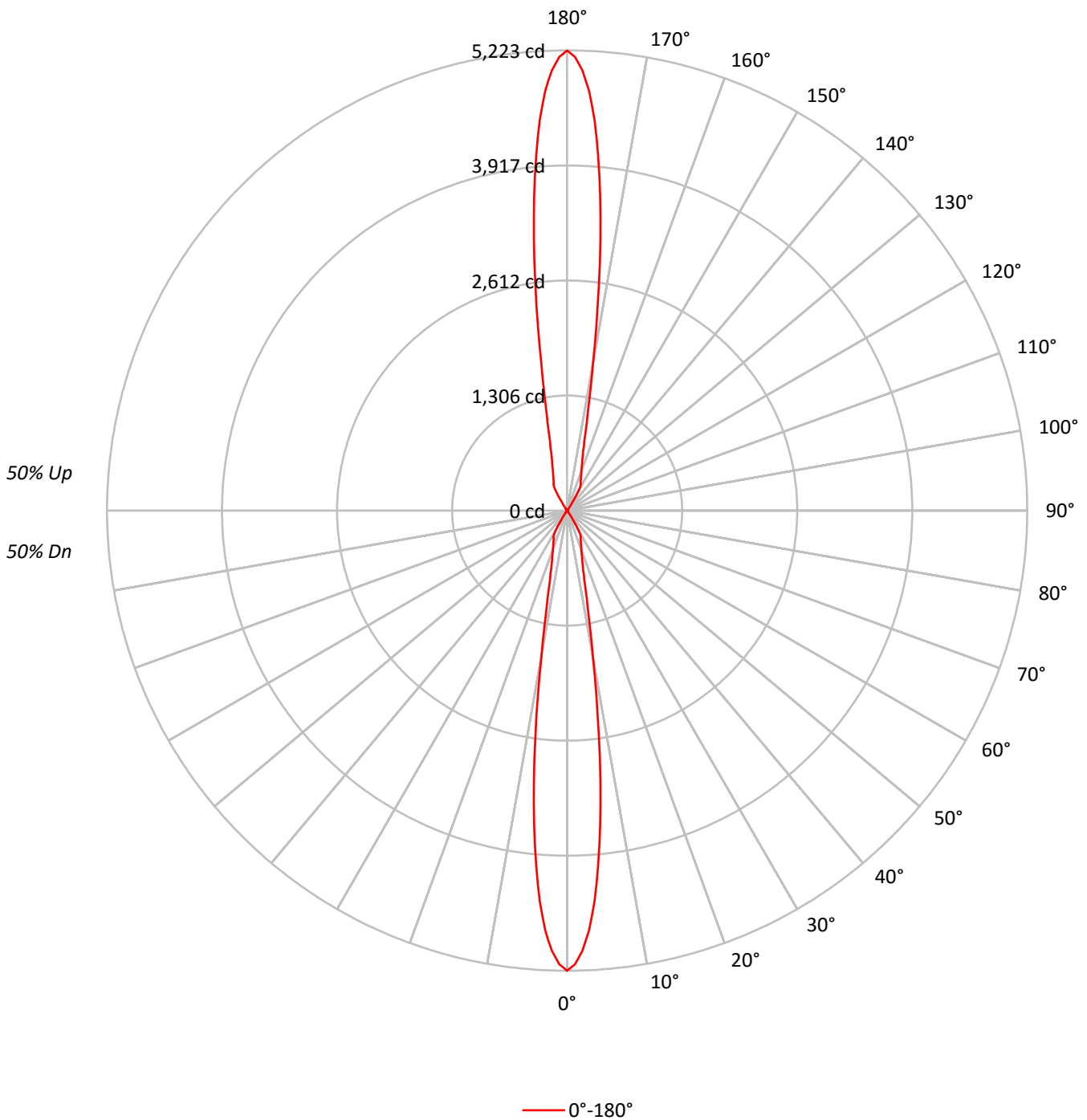
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	97	94	92	93	90	88	86	77	75	74		65	64	63		54	53	53	48
2	94	89	85	81	87	83	79	76	72	69	67		61	60	58		52	51	50	46
3	89	82	77	72	83	77	72	69	67	64	61		58	56	54		50	48	47	44
4	84	76	70	66	78	72	67	63	63	60	57		55	53	51		48	46	45	42
5	79	71	65	61	74	67	62	58	60	56	53		53	50	48		46	45	43	41
6	75	67	61	56	71	63	58	54	57	53	50		50	48	46		45	43	42	39
7	72	63	57	53	67	60	54	51	54	50	47		48	46	44		43	42	40	38
8	68	59	54	50	65	57	52	48	51	48	45		47	44	42		42	40	39	37
9	66	56	51	47	62	54	49	46	49	46	43		45	42	40		41	39	38	36
10	63	54	48	45	59	52	47	43	47	44	41		43	41	39		40	38	36	35

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	644197
5°	500591
10°	212133
15°	90690
20°	61929
25°	49349
30°	36903
35°	4894
40°	2608
45°	1901
50°	2034
55°	2215
60°	2467
65°	2831
70°	3282
75°	3956
80°	4617
85°	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.1	19.6
10°-20°	218.6	14.0
20°-30°	168.7	10.8
30°-40°	46.7	3.0
40°-50°	9.1	0.6
50°-60°	9.2	0.6
60°-70°	9.6	0.6
70°-80°	8.6	0.6
80°-90°	3.6	0.2
90°-100°	3.6	0.2
100°-110°	8.6	0.6
110°-120°	9.6	0.6
120°-130°	9.2	0.6
130°-140°	9.1	0.6
140°-150°	46.7	3.0
150°-160°	168.7	10.8
160°-170°	218.6	14.0
170°-180°	305.1	19.6
0°-30°	692.4	44.4
0°-40°	739.2	47.4
0°-60°	757.5	48.6
0°-90°	779.3	50.0
90°-120°	21.8	1.4
90°-150°	86.9	5.6
90°-180°	779.0	50.0
0°-180°	1558.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5223	
5°	4043	305
15°	710	219
25°	363	169
35°	32	47
45°	11	9
55°	10	9
65°	10	10
75°	8	9
85°	3	3
90°	0	0
95°	3	3
105°	8	9
115°	10	10
125°	10	9
135°	11	9
145°	32	47
155°	363	169
165°	710	219
175°	4043	305
180°	5223	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5222.7
1°	5149.5
2°	4997.9
3°	4767.4
4°	4447.0
5°	4043.0
6°	3586.9
7°	3105.3
8°	2583.9
9°	2111.2
10°	1693.7
11°	1364.7
12°	1115.1
13°	934.5
14°	806.7
15°	710.2
16°	638.5
17°	584.8
18°	542.6
19°	505.7
20°	471.8
22.5°	408.7
25°	362.6
26°	350.8
27°	340.8
28°	328.7
29°	302.4
30°	259.1
32.5°	124.5
35°	32.5
37.5°	20.9
40°	16.2
42.5°	12.1
45°	10.9
47.5°	10.6
50°	10.6
52.5°	10.3
55°	10.3
57.5°	10.3
60°	10.0
62.5°	10.0
65°	9.7
67.5°	9.4
70°	9.1
72.5°	8.9



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CANDELA DISTRIBUTION (continued):

	0°
75°	8.3
77.5°	7.7
80°	6.5
82.5°	5.3
85°	3.2
87.5°	1.5
90°	0.0
92.5°	1.5
95°	3.2
97.5°	5.3
100°	6.5
102.5°	7.7
105°	8.3
107.5°	8.9
110°	9.1
112.5°	9.4
115°	9.7
117.5°	10.0
120°	10.0
122.5°	10.3
125°	10.3
127.5°	10.3
130°	10.6
132.5°	10.6
135°	10.9
137.5°	12.1
140°	16.2
142.5°	20.9
145°	32.5
147.5°	124.5
150°	259.1
151°	302.4
152°	328.7
153°	340.8
154°	350.8
155°	362.6
157.5°	408.7
160°	471.8
161°	505.7
162°	542.6
163°	584.8
164°	638.5
165°	710.2
166°	806.7
167°	934.5



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CANDELA DISTRIBUTION (continued):

	0°
168°	1115.1
169°	1364.7
170°	1693.7
171°	2111.2
172°	2583.9
173°	3105.3
174°	3586.9
175°	4043.0
176°	4447.0
177°	4767.4
178°	4997.9
179°	5149.5
180°	5222.7

(END OF REPORT)