

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: P221907

Luminaire Tested: **9004-W2-[RW, RI]-LED4097-W-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221907
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29494)
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]-LED4097-W-BK-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, WIDE FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 4000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1582.4 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.83
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

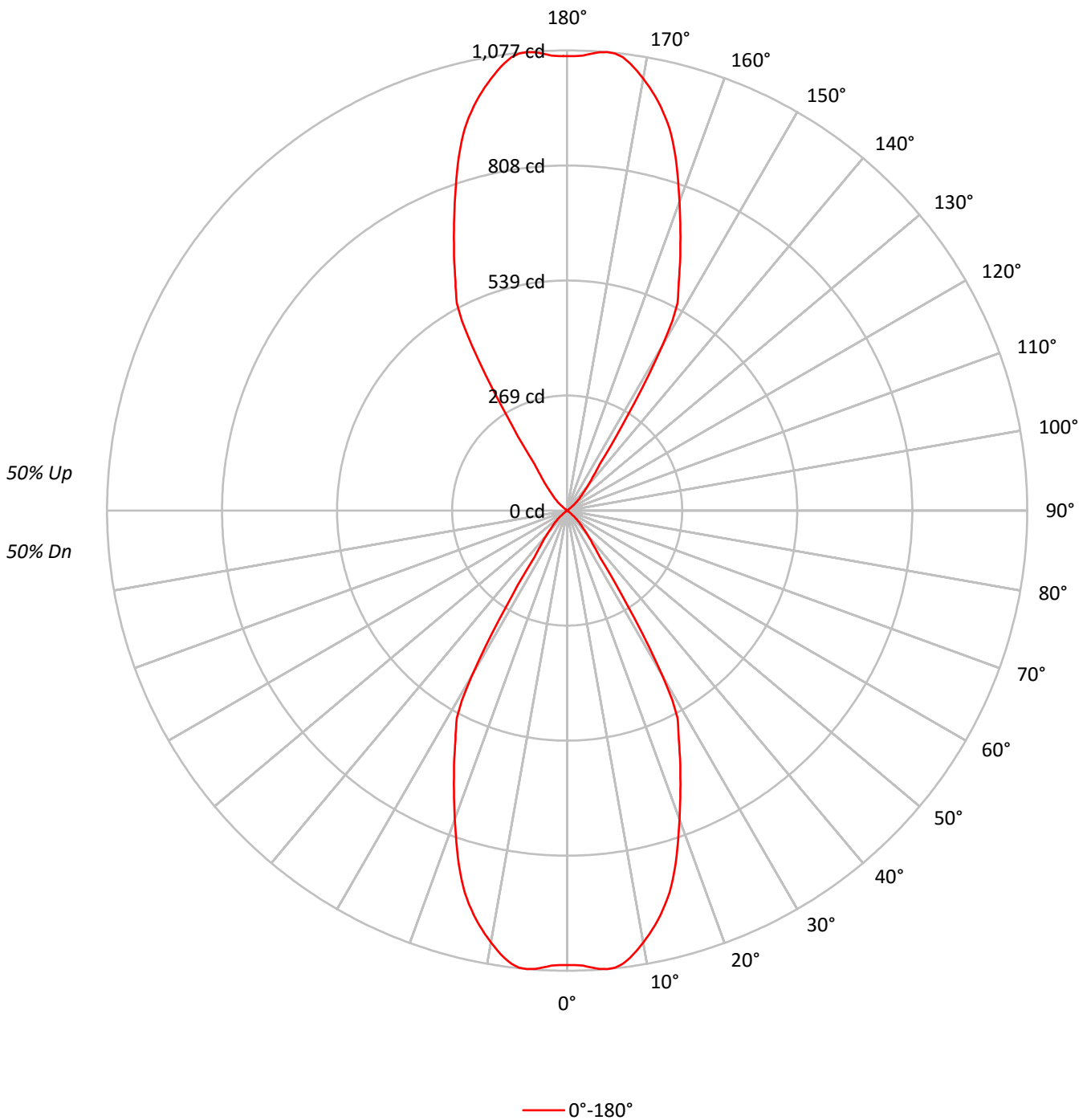
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	91	93	90	87	85	77	75	74	65	64	63	53	53	52	47
2	94	88	83	79	87	82	78	75	71	68	66	60	59	57	51	50	49	44
3	88	80	75	70	81	75	70	67	65	62	59	56	54	52	48	47	45	42
4	82	74	68	63	76	69	64	60	61	57	54	53	50	48	46	44	42	39
5	77	68	62	57	72	64	58	54	57	52	49	50	47	44	43	41	40	37
6	72	63	56	52	68	59	54	50	53	49	45	47	44	41	41	39	37	35
7	68	58	52	47	64	55	50	46	49	45	42	44	41	38	39	37	35	33
8	64	54	48	44	60	52	46	42	46	42	39	41	38	36	37	35	33	31
9	61	51	45	40	57	48	43	39	44	39	36	39	36	34	35	33	31	29
10	58	48	42	38	54	45	40	36	41	37	34	37	34	32	33	31	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	131240
5°	133388
10°	128568
15°	118183
20°	100901
25°	84761
30°	63451
35°	19921
40°	11802
45°	7169
50°	2994
55°	495
60°	321
65°	204
70°	108
75°	143
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.2	6.4
10°-20°	255.3	16.1
20°-30°	284.3	18.0
30°-40°	113.4	7.2
40°-50°	32.4	2.0
50°-60°	3.6	0.2
60°-70°	0.7	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°	0.7	0.0
120°-130°	3.6	0.2
130°-140°	32.4	2.0
140°-150°	113.4	7.2
150°-160°	284.3	18.0
160°-170°	255.3	16.1
170°-180°	101.2	6.4
0°-30°	640.8	40.5
0°-40°	754.2	47.7
0°-60°	790.2	49.9
0°-90°	791.2	50.0
90°-120°	1.0	0.1
90°-150°	150.4	9.5
90°-180°	791.0	50.0
0°-180°	1582.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1064	
5°	1077	101
15°	926	255
25°	623	284
35°	132	113
45°	41	32
55°	2	4
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	1	1
125°	2	4
135°	41	32
145°	132	113
155°	623	284
165°	926	255
175°	1077	101
180°	1064	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1064.0
1°	1063.7
2°	1065.7
3°	1070.6
4°	1075.3
5°	1077.3
6°	1075.9
7°	1069.0
8°	1057.0
9°	1042.5
10°	1026.5
11°	1009.3
12°	991.4
13°	971.5
14°	949.6
15°	925.5
16°	897.3
17°	867.1
18°	834.3
19°	800.8
20°	768.7
21°	737.5
22°	707.7
23°	678.5
24°	651.0
25°	622.8
26°	596.3
27°	573.4
28°	549.6
29°	507.5
30°	445.5
32.5°	260.5
35°	132.3
37.5°	97.8
40°	73.3
42.5°	54.4
45°	41.1
47.5°	30.5
50°	15.6
52.5°	4.0
55°	2.3
57.5°	1.7
60°	1.3
62.5°	1.0
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°	1.0
120°	1.3
122.5°	1.7
125°	2.3
127.5°	4.0
130°	15.6
132.5°	30.5
135°	41.1
137.5°	54.4
140°	73.3
142.5°	97.8
145°	132.3
147.5°	260.5
150°	445.5
151°	507.5
152°	549.6
153°	573.4
154°	596.3
155°	622.8
156°	651.0
157°	678.5
158°	707.7
159°	737.5
160°	768.7
161°	800.8



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CANDELA DISTRIBUTION (continued):

	0°
162°	834.3
163°	867.1
164°	897.3
165°	925.5
166°	949.6
167°	971.5
168°	991.4
169°	1009.3
170°	1026.5
171°	1042.5
172°	1057.0
173°	1069.0
174°	1075.9
175°	1077.3
176°	1075.3
177°	1070.6
178°	1065.7
179°	1063.7
180°	1064.0

(END OF REPORT)