

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: P221906

Luminaire Tested: **9004-W2-[RW, RI]-LED4097-S-WT-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221906
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]-LED4097-S-WT-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED 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: 4188.6 lumens
Efficiency: N/A
Efficacy: 73.2 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

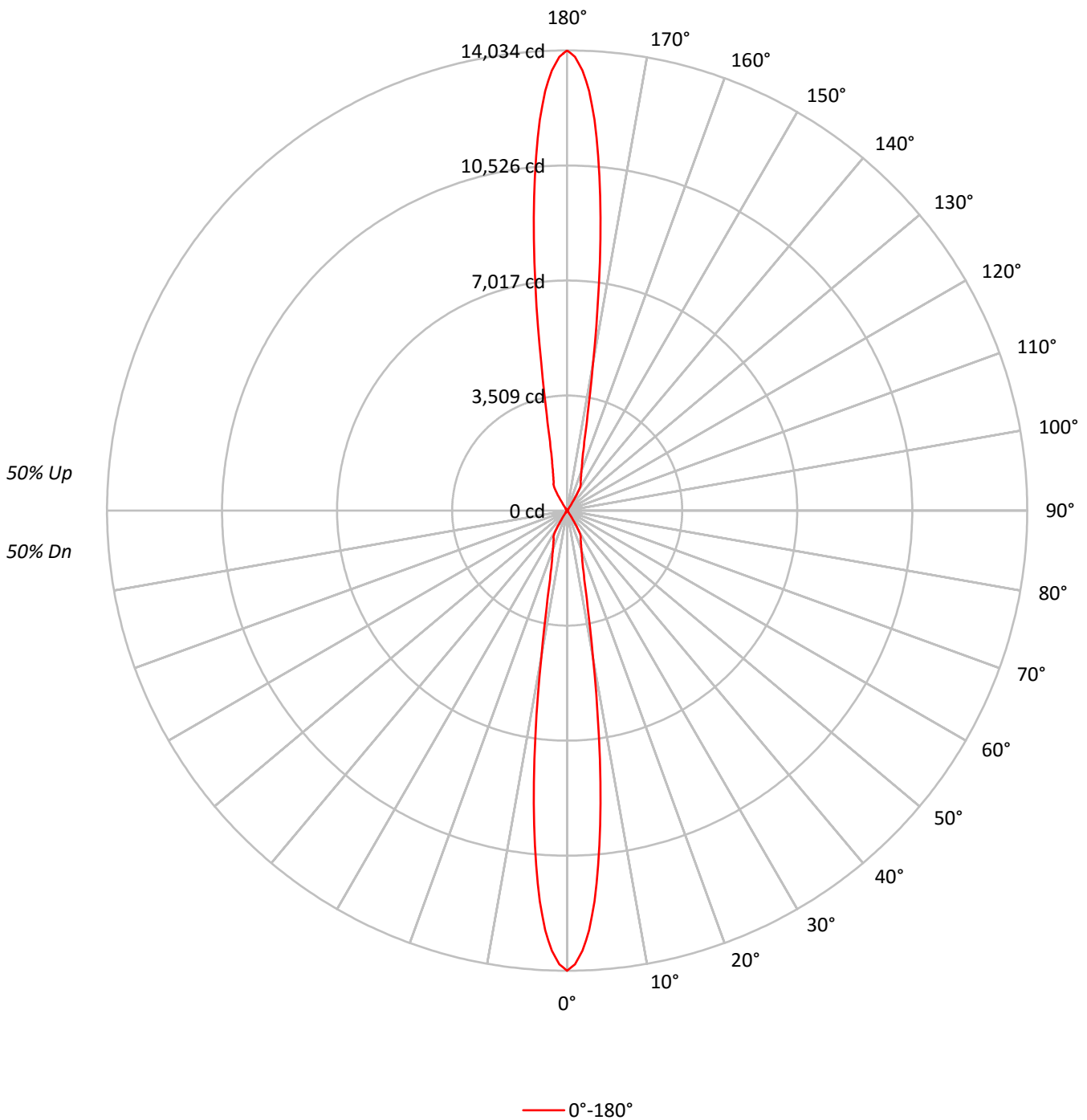
Input Watts (W): 57.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1731082
5°	1345195
10°	570043
15°	243709
20°	166427
25°	132626
30°	99158
35°	13130
40°	7020
45°	5111
50°	5469
55°	5978
60°	6661
65°	7647
70°	8872
75°	10580
80°	12360
85°	12313



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	819.8	19.6
10°-20°	587.5	14.0
20°-30°	453.4	10.8
30°-40°	125.6	3.0
40°-50°	24.3	0.6
50°-60°	24.9	0.6
60°-70°	25.9	0.6
70°-80°	23.1	0.6
80°-90°	9.7	0.2
90°-100°	9.7	0.2
100°-110°	23.1	0.6
110°-120°	25.9	0.6
120°-130°	24.9	0.6
130°-140°	24.3	0.6
140°-150°	125.6	3.0
150°-160°	453.4	10.8
160°-170°	587.5	14.0
170°-180°	819.8	19.6
0°-30°	1860.7	44.4
0°-40°	1986.3	47.4
0°-60°	2035.6	48.6
0°-90°	2094.3	50.0
90°-120°	58.7	1.4
90°-150°	233.6	5.6
90°-180°	2094.0	50.0
0°-180°	4188.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14034	
5°	10864	820
15°	1908	588
25°	974	453
35°	87	126
45°	29	24
55°	28	25
65°	26	26
75°	22	23
85°	9	9
90°	0	1
95°	9	9
105°	22	23
115°	26	26
125°	28	25
135°	29	24
145°	87	126
155°	974	453
165°	1908	588
175°	10864	820
180°	14034	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	14034.4
1°	13837.8
2°	13430.2
3°	12810.9
4°	11949.9
5°	10864.4
6°	9638.5
7°	8344.5
8°	6943.5
9°	5673.2
10°	4551.3
11°	3667.2
12°	2996.4
13°	2511.1
14°	2167.8
15°	1908.5
16°	1715.8
17°	1571.5
18°	1458.1
19°	1359.0
20°	1267.9
22.5°	1098.2
25°	974.5
26°	942.8
27°	915.8
28°	883.3
29°	812.7
30°	696.2
32.5°	334.6
35°	87.2
37.5°	56.3
40°	43.6
42.5°	32.5
45°	29.3
47.5°	28.5
50°	28.5
52.5°	27.8
55°	27.8
57.5°	27.8
60°	27.0
62.5°	27.0
65°	26.2
67.5°	25.4
70°	24.6
72.5°	23.8



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CANDELA DISTRIBUTION (continued):

	0°
75°	22.2
77.5°	20.6
80°	17.4
82.5°	14.3
85°	8.7
87.5°	4.0
90°	0.0
92.5°	4.0
95°	8.7
97.5°	14.3
100°	17.4
102.5°	20.6
105°	22.2
107.5°	23.8
110°	24.6
112.5°	25.4
115°	26.2
117.5°	27.0
120°	27.0
122.5°	27.8
125°	27.8
127.5°	27.8
130°	28.5
132.5°	28.5
135°	29.3
137.5°	32.5
140°	43.6
142.5°	56.3
145°	87.2
147.5°	334.6
150°	696.2
151°	812.7
152°	883.3
153°	915.8
154°	942.8
155°	974.5
157.5°	1098.2
160°	1267.9
161°	1359.0
162°	1458.1
163°	1571.5
164°	1715.8
165°	1908.5
166°	2167.8
167°	2511.1



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CANDELA DISTRIBUTION (continued):

	0°
168°	2996.4
169°	3667.2
170°	4551.3
171°	5673.2
172°	6943.5
173°	8344.5
174°	9638.5
175°	10864.4
176°	11949.9
177°	12810.9
178°	13430.2
179°	13837.8
180°	14034.4

(END OF REPORT)