

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: P222134

Luminaire Tested: **9004-W2-FL-LED4097-F-WT-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222134
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29495)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9004-W2-FL-LED4097-F-WT-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 4000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4400.6 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.56
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

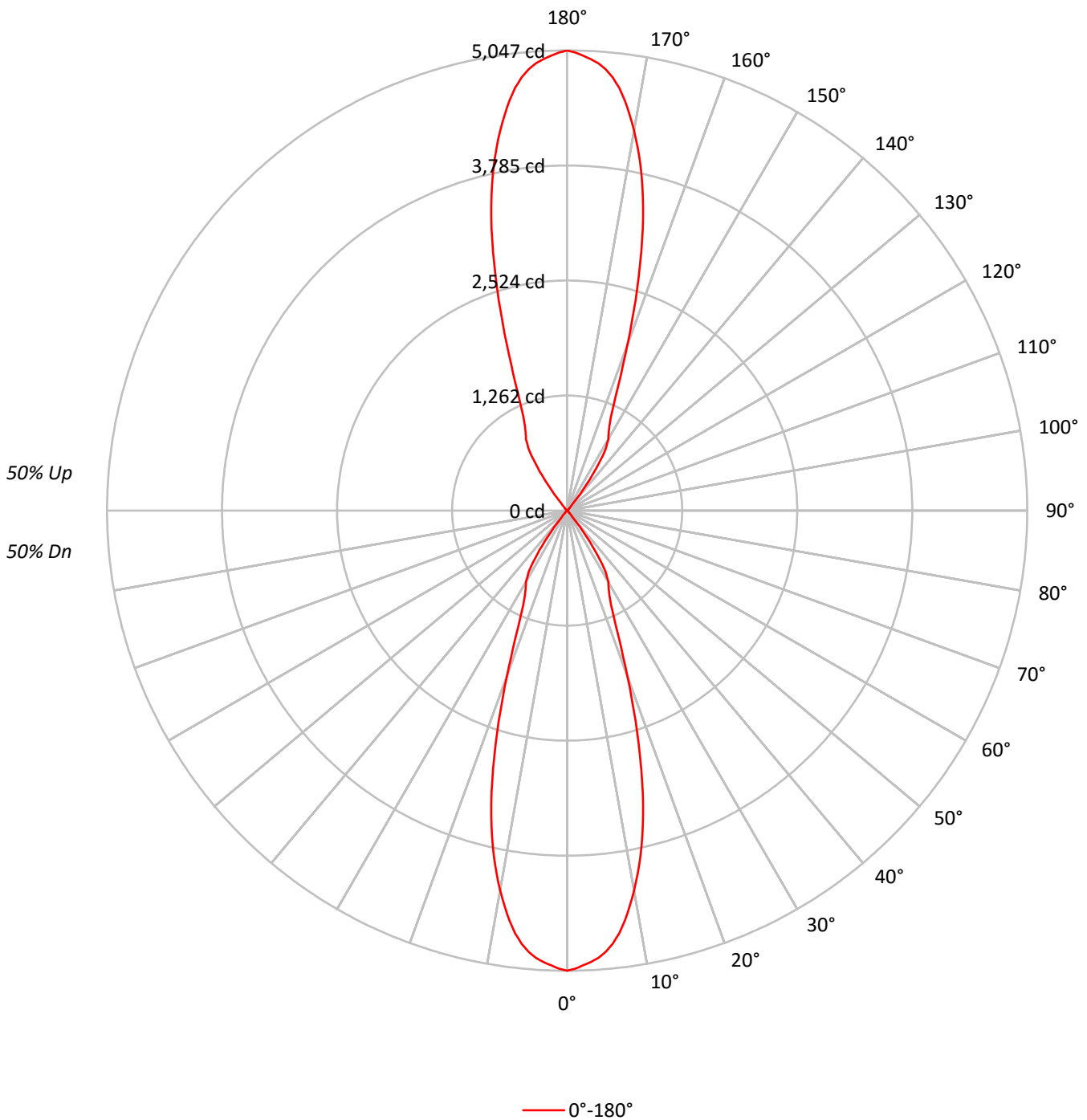
Input Watts (W): 56.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	67		61	59	58		51	50	50	45
3	88	81	76	72	82	76	72	68	67	63	61		58	55	53		49	48	47	43
4	83	75	69	65	77	71	66	62	62	58	56		54	52	50		47	45	44	41
5	78	70	63	59	73	66	60	56	58	54	51		51	49	46		45	43	42	39
6	74	65	59	54	69	61	56	52	55	51	48		49	46	44		43	41	40	37
7	70	61	54	50	66	57	52	48	52	48	45		46	43	41		41	39	38	35
8	66	57	51	47	62	54	49	45	49	45	42		44	41	39		39	37	36	34
9	63	53	47	44	59	51	46	42	46	42	39		42	39	37		38	36	34	32
10	60	50	45	41	57	48	43	40	44	40	37		40	37	35		36	34	33	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	622501
5°	601514
10°	530014
15°	409255
20°	254057
25°	154960
30°	128512
35°	78436
40°	13284
45°	4849
50°	1075
55°	516
60°	395
65°	467
70°	289
75°	381
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	443.8	10.1
10°-20°	858.2	19.5
20°-30°	558.9	12.7
30°-40°	310.4	7.1
40°-50°	24.3	0.6
50°-60°	2.6	0.1
60°-70°	1.5	0.0
70°-80°	0.7	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.7	0.0
110°-120°	1.5	0.0
120°-130°	2.6	0.1
130°-140°	24.3	0.6
140°-150°	310.4	7.1
150°-160°	558.9	12.7
160°-170°	858.2	19.5
170°-180°	443.8	10.1
0°-30°	1860.8	42.3
0°-40°	2171.2	49.3
0°-60°	2198.1	49.9
0°-90°	2200.3	50.0
90°-120°	2.2	0.1
90°-150°	339.5	7.7
90°-180°	2200.0	50.0
0°-180°	4400.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5047	
5°	4858	444
15°	3205	858
25°	1139	559
35°	521	310
45°	28	24
55°	2	3
65°	2	1
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	2	1
125°	2	3
135°	28	24
145°	521	310
155°	1139	559
165°	3205	858
175°	4858	444
180°	5047	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5046.8
1°	5024.6
2°	4992.1
3°	4958.0
4°	4917.6
5°	4858.1
6°	4778.0
7°	4672.6
8°	4541.8
9°	4391.9
10°	4231.7
11°	4057.3
12°	3867.8
13°	3664.8
14°	3441.2
15°	3204.9
16°	2948.0
17°	2680.0
18°	2426.3
19°	2171.0
20°	1935.5
21°	1713.5
22°	1520.8
23°	1359.8
24°	1234.6
25°	1138.6
26°	1068.8
27°	1013.3
28°	969.7
29°	934.8
30°	902.3
32.5°	765.2
35°	520.9
37.5°	267.2
40°	82.5
42.5°	39.6
45°	27.8
47.5°	17.4
50°	5.6
52.5°	3.2
55°	2.4
57.5°	2.4
60°	1.6
62.5°	1.6
65°	1.6



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	1.6
70°	0.8
72.5°	0.8
75°	0.8
77.5°	0.8
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°	0.8
105°	0.8
107.5°	0.8
110°	0.8
112.5°	1.6
115°	1.6
117.5°	1.6
120°	1.6
122.5°	2.4
125°	2.4
127.5°	3.2
130°	5.6
132.5°	17.4
135°	27.8
137.5°	39.6
140°	82.5
142.5°	267.2
145°	520.9
147.5°	765.2
150°	902.3
151°	934.8
152°	969.7
153°	1013.3
154°	1068.8
155°	1138.6
156°	1234.6
157°	1359.8
158°	1520.8
159°	1713.5
160°	1935.5
161°	2171.0



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CANDELA DISTRIBUTION (continued):

	0°
162°	2426.3
163°	2680.0
164°	2948.0
165°	3204.9
166°	3441.2
167°	3664.8
168°	3867.8
169°	4057.3
170°	4231.7
171°	4391.9
172°	4541.8
173°	4672.6
174°	4778.0
175°	4858.1
176°	4917.6
177°	4958.0
178°	4992.1
179°	5024.6
180°	5046.8

(END OF REPORT)