

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: P221894

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221894  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29489)  
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-F-WT-L3-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED 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: 4280.0 lumens  
Efficiency: N/A  
Efficacy: 75.1 lumens/watt  
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.57  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: General Diffuse

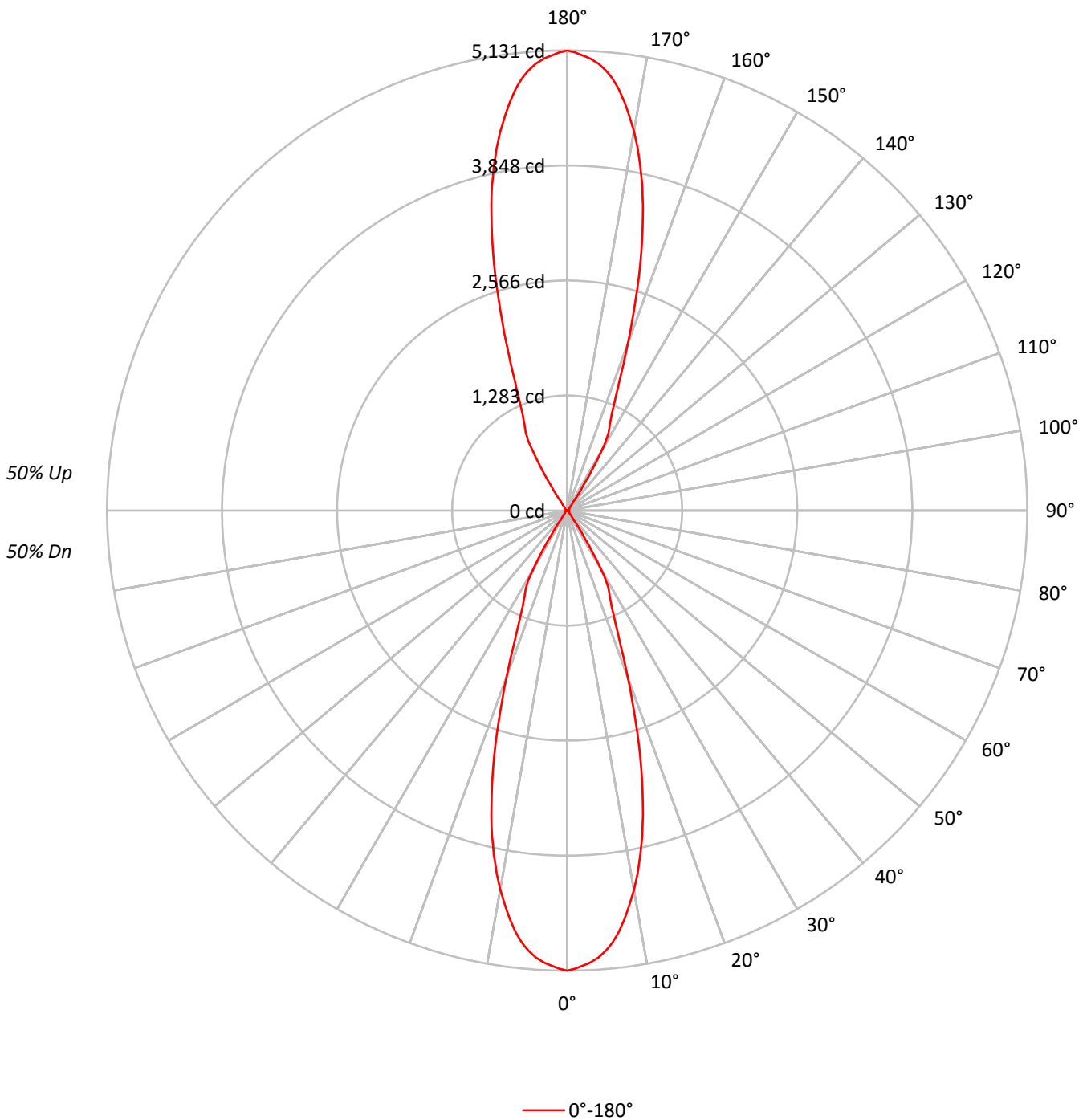
Input Watts (W): 57  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	84	80	87	82	78	75	71	68	66	61	59	57	51	50	49	45
3	88	81	76	71	82	76	71	67	66	63	60	57	55	53	49	47	46	42
4	83	75	69	64	77	70	65	61	62	58	55	54	51	49	47	45	44	40
5	78	69	63	59	73	65	60	56	58	54	51	51	48	46	45	43	41	39
6	74	65	58	54	69	61	56	52	55	51	48	49	46	43	43	41	39	37
7	70	60	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	54	48	44	60	51	46	42	46	42	40	42	39	37	38	36	34	33
10	60	51	45	41	57	48	43	40	44	40	38	40	37	35	37	34	33	31

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	632874
5°	610256
10°	537366
15°	414925
20°	259045
25°	159492
30°	109313
35°	17196
40°	7793
45°	5251
50°	5469
55°	5978
60°	6661
65°	7413
70°	8583
75°	10580
80°	12360
85°	12313



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	450.0	10.5
10°-20°	872.5	20.4
20°-30°	565.0	13.2
30°-40°	145.4	3.4
40°-50°	24.8	0.6
50°-60°	25.1	0.6
60°-70°	25.2	0.6
70°-80°	22.6	0.5
80°-90°	9.5	0.2
90°-100°	9.5	0.2
100°-110°	22.6	0.5
110°-120°	25.2	0.6
120°-130°	25.1	0.6
130°-140°	24.8	0.6
140°-150°	145.4	3.4
150°-160°	565.0	13.2
160°-170°	872.5	20.4
170°-180°	450.0	10.5
0°-30°	1887.5	44.1
0°-40°	2032.9	47.5
0°-60°	2082.7	48.7
0°-90°	2140.0	50.0
90°-120°	57.3	1.3
90°-150°	252.5	5.9
90°-180°	2140.0	50.0
0°-180°	4280.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5131	
5°	4929	450
15°	3249	873
25°	1172	565
35°	114	145
45°	30	25
55°	28	25
65°	25	25
75°	22	23
85°	9	9
90°	0	1
95°	9	9
105°	22	23
115°	25	25
125°	28	25
135°	30	25
145°	114	145
155°	1172	565
165°	3249	873
175°	4929	450
180°	5131	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5130.9
1°	5107.9
2°	5077.8
3°	5042.1
4°	4996.1
5°	4928.7
6°	4843.1
7°	4731.3
8°	4597.3
9°	4448.2
10°	4290.4
11°	4117.6
12°	3927.3
13°	3721.1
14°	3495.1
15°	3249.3
16°	2995.6
17°	2734.7
18°	2473.1
19°	2215.4
20°	1973.5
21°	1752.3
22°	1559.6
23°	1397.1
24°	1269.4
25°	1171.9
26°	1095.0
27°	1035.5
28°	985.6
29°	898.4
30°	767.5
32.5°	383.8
35°	114.2
37.5°	72.9
40°	48.4
42.5°	30.9
45°	30.1
47.5°	29.3
50°	28.5
52.5°	28.5
55°	27.8
57.5°	27.8
60°	27.0
62.5°	26.2
65°	25.4



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	24.6
70°	23.8
72.5°	23.0
75°	22.2
77.5°	19.8
80°	17.4
82.5°	13.5
85°	8.7
87.5°	4.0
90°	0.0
92.5°	4.0
95°	8.7
97.5°	13.5
100°	17.4
102.5°	19.8
105°	22.2
107.5°	23.0
110°	23.8
112.5°	24.6
115°	25.4
117.5°	26.2
120°	27.0
122.5°	27.8
125°	27.8
127.5°	28.5
130°	28.5
132.5°	29.3
135°	30.1
137.5°	30.9
140°	48.4
142.5°	72.9
145°	114.2
147.5°	383.8
150°	767.5
151°	898.4
152°	985.6
153°	1035.5
154°	1095.0
155°	1171.9
156°	1269.4
157°	1397.1
158°	1559.6
159°	1752.3
160°	1973.5
161°	2215.4



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**CANDELA DISTRIBUTION (continued):**

	0°
162°	2473.1
163°	2734.7
164°	2995.6
165°	3249.3
166°	3495.1
167°	3721.1
168°	3927.3
169°	4117.6
170°	4290.4
171°	4448.2
172°	4597.3
173°	4731.3
174°	4843.1
175°	4928.7
176°	4996.1
177°	5042.1
178°	5077.8
179°	5107.9
180°	5130.9

(END OF REPORT)