

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: P221848

Luminaire Tested: **9004-W2-[RW, RI]-LED3597-M-BK-L2-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221848  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29492)  
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]-LED3597-M-BK-L2-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, MEDIUM FLOOD OPTIC, BLACK HOUSING.  
Light Source: (1) 3500K CCT, 97 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3058.8 lumens  
Efficiency: N/A  
Efficacy: 76.1 lumens/watt  
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: General Diffuse

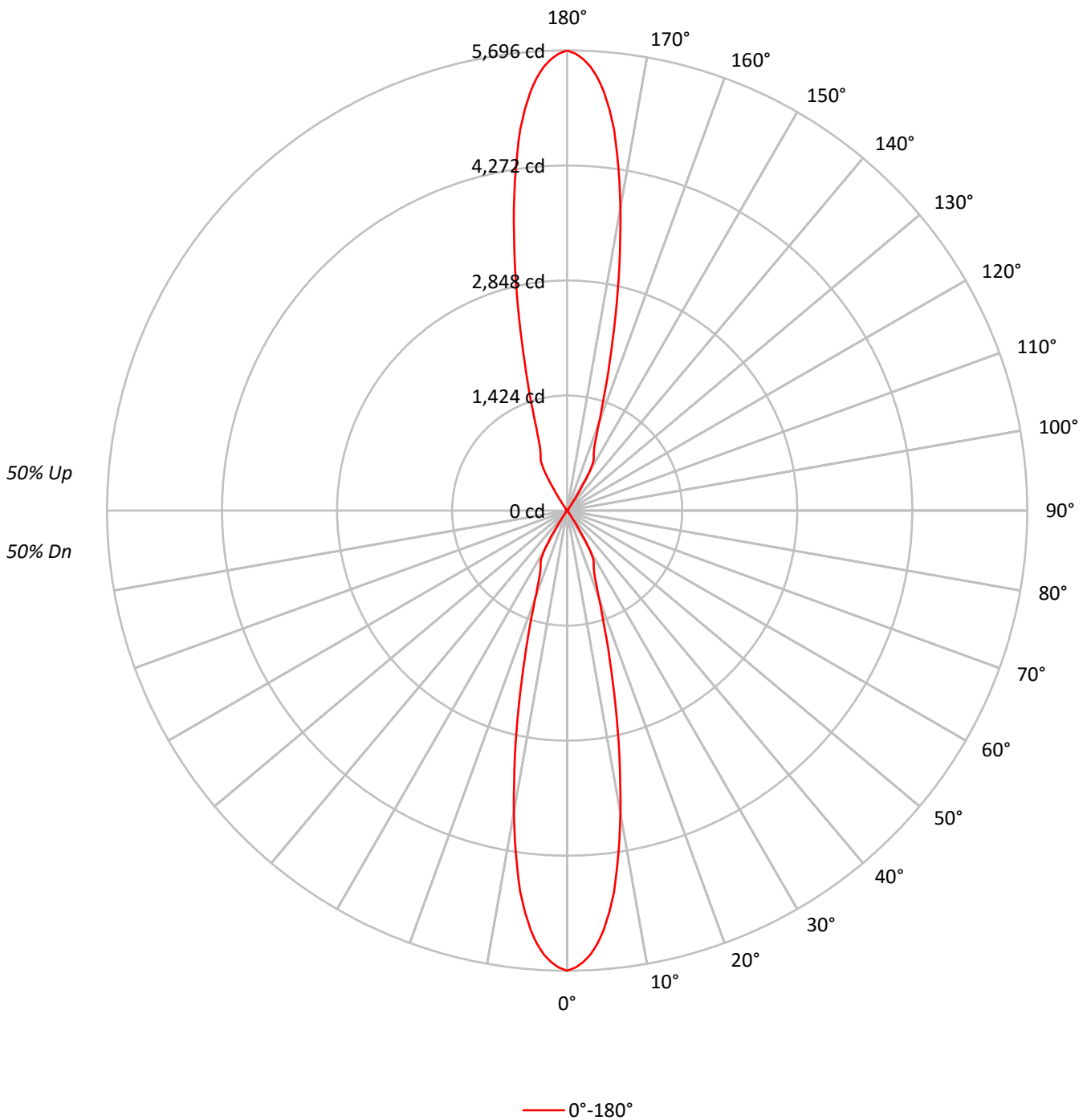
Input Watts (W): 40.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	101	98	95	92	93	91	88	86	77	76	74	65	64	63	54	54	53	48
2	95	89	85	81	88	83	80	77	72	70	67	62	60	59	52	51	50	46
3	89	82	77	73	83	77	73	69	68	64	62	59	57	55	50	49	48	44
4	84	76	71	66	79	72	67	63	64	60	57	56	53	51	48	47	46	43
5	80	71	65	61	75	67	62	58	60	56	53	53	51	49	47	45	44	41
6	76	67	61	57	71	63	58	54	57	53	50	51	48	46	45	43	42	40
7	72	63	57	53	68	60	55	51	54	50	47	49	46	44	43	42	40	38
8	68	59	53	50	64	57	51	48	51	48	45	47	44	42	42	40	39	37
9	65	56	51	47	62	54	49	45	49	45	43	45	42	40	41	39	37	36
10	62	53	48	44	59	51	46	43	47	43	41	43	40	38	39	37	36	34

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

	0°
0°	702638
5°	644640
10°	475618
15°	277613
20°	150557
25°	106387
30°	77096
35°	9592
40°	3285
45°	1291
50°	825
55°	667
60°	469
65°	350
70°	216
75°	286
80°	426
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	451.4	14.8
10°-20°	605.4	19.8
20°-30°	367.3	12.0
30°-40°	94.0	3.1
40°-50°	6.7	0.2
50°-60°	2.8	0.1
60°-70°	1.2	0.0
70°-80°	0.6	0.0
80°-90°	0.1	0.0
90°-100°	0.1	0.0
100°-110°	0.6	0.0
110°-120°	1.2	0.0
120°-130°	2.8	0.1
130°-140°	6.7	0.2
140°-150°	94.0	3.1
150°-160°	367.3	12.0
160°-170°	605.4	19.8
170°-180°	451.4	14.8
0°-30°	1424.1	46.6
0°-40°	1518.0	49.6
0°-60°	1527.5	49.9
0°-90°	1529.4	50.0
90°-120°	1.9	0.1
90°-150°	105.4	3.4
90°-180°	1529.0	50.0
0°-180°	3058.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5696	
5°	5206	451
15°	2174	605
25°	782	367
35°	64	94
45°	7	7
55°	3	3
65°	1	1
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	1	1
125°	3	3
135°	7	7
145°	64	94
155°	782	367
165°	2174	605
175°	5206	451
180°	5696	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5696.5
1°	5660.0
2°	5595.1
3°	5502.4
4°	5375.8
5°	5206.4
6°	4995.1
7°	4757.2
8°	4453.1
9°	4128.7
10°	3797.4
11°	3448.9
12°	3106.6
13°	2779.0
14°	2464.5
15°	2174.0
16°	1914.5
17°	1680.3
18°	1471.4
19°	1295.3
20°	1147.0
21°	1030.2
22°	937.5
23°	868.9
24°	820.1
25°	781.7
26°	750.8
27°	724.3
28°	692.7
29°	635.3
30°	541.3
32.5°	257.7
35°	63.7
37.5°	34.6
40°	20.4
42.5°	9.3
45°	7.4
47.5°	6.2
50°	4.3
52.5°	3.7
55°	3.1
57.5°	2.5
60°	1.9
62.5°	1.9
65°	1.2



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	0.6
70°	0.6
72.5°	0.6
75°	0.6
77.5°	0.6
80°	0.6
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°	0.6
102.5°	0.6
105°	0.6
107.5°	0.6
110°	0.6
112.5°	0.6
115°	1.2
117.5°	1.9
120°	1.9
122.5°	2.5
125°	3.1
127.5°	3.7
130°	4.3
132.5°	6.2
135°	7.4
137.5°	9.3
140°	20.4
142.5°	34.6
145°	63.7
147.5°	257.7
150°	541.3
151°	635.3
152°	692.7
153°	724.3
154°	750.8
155°	781.7
156°	820.1
157°	868.9
158°	937.5
159°	1030.2
160°	1147.0
161°	1295.3



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**CANDELA DISTRIBUTION (continued):**

	0°
162°	1471.4
163°	1680.3
164°	1914.5
165°	2174.0
166°	2464.5
167°	2779.0
168°	3106.6
169°	3448.9
170°	3797.4
171°	4128.7
172°	4453.1
173°	4757.2
174°	4995.1
175°	5206.4
176°	5375.8
177°	5502.4
178°	5595.1
179°	5660.0
180°	5696.5

(END OF REPORT)