

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: P221853

Luminaire Tested: **9004-W2-[RW, RI]-LED3597-S-BK-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221853  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29491)  
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-S-BK-L1-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, SPOT OPTIC, BLACK HOUSING.  
Light Source: (1) 3500K CCT, 97 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1661.2 lumens  
Efficiency: N/A  
Efficacy: 84.3 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

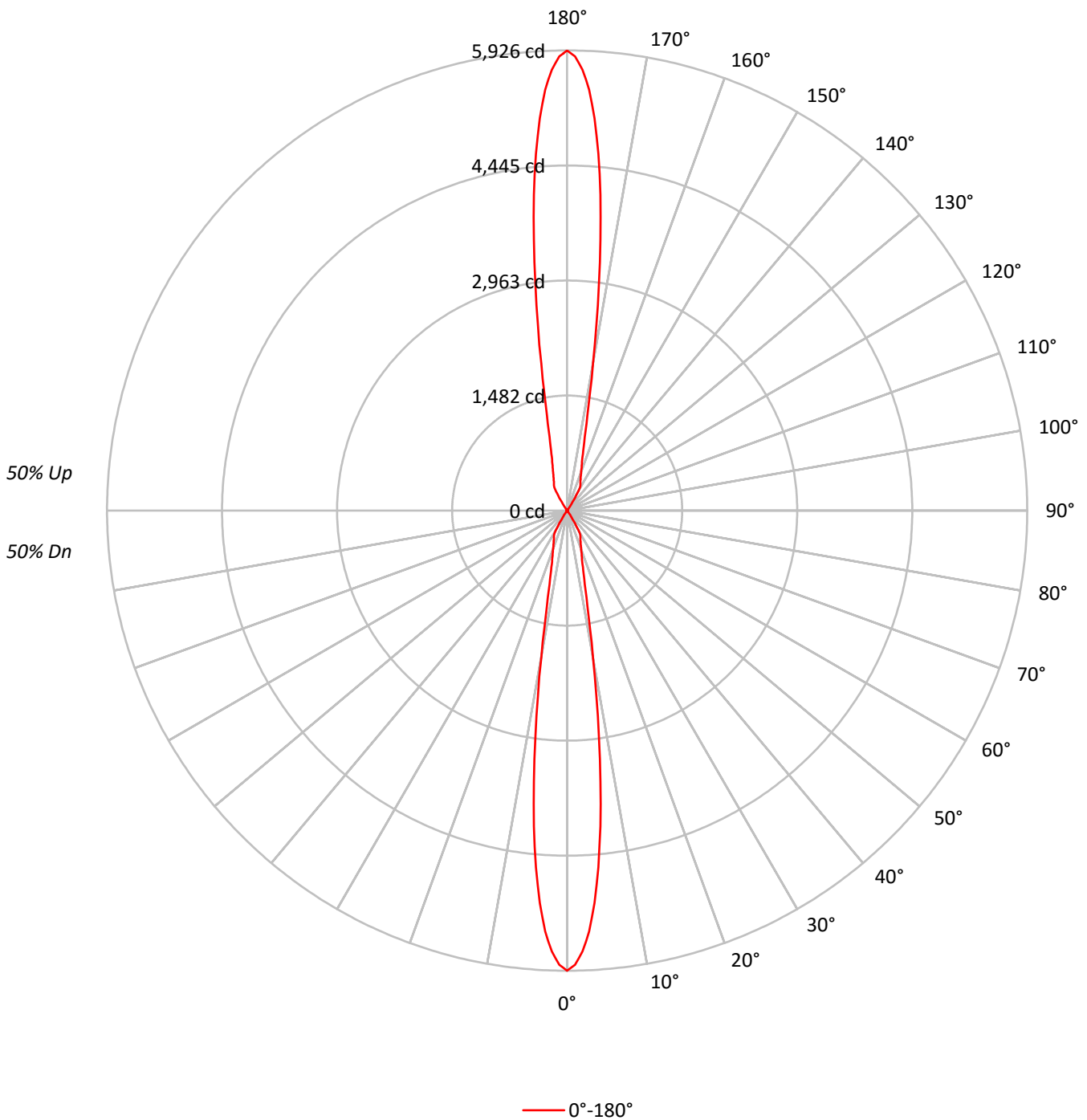
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	101	98	95	93	93	91	88	86	78	76	75	65	65	64	54	54	53	48
2	95	90	86	82	88	84	80	77	73	70	68	62	61	59	53	52	51	47
3	90	83	78	74	83	78	74	70	68	65	63	59	57	56	51	50	49	45
4	85	77	72	68	79	73	68	64	64	61	58	57	54	53	49	48	47	44
5	81	72	67	62	75	68	63	60	61	57	55	54	52	50	48	46	45	42
6	77	68	62	58	72	65	60	56	58	54	52	52	49	48	46	45	43	41
7	73	64	58	54	69	61	56	53	55	52	49	50	47	45	45	43	42	40
8	70	61	55	51	66	58	53	50	53	49	47	48	46	44	44	42	41	39
9	67	58	52	49	63	56	51	47	51	47	45	47	44	42	42	41	39	38
10	64	55	50	47	61	53	48	45	49	45	43	45	42	41	41	40	38	37

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

	0°
0°	730909
5°	571043
10°	240527
15°	101928
20°	69017
25°	54793
30°	40563
35°	3674
40°	1353
45°	401
50°	326
55°	366
60°	247
65°	204
70°	108
75°	143
80°	213
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	347.2	20.9
10°-20°	245.3	14.8
20°-30°	187.3	11.3
30°-40°	45.9	2.8
40°-50°	2.5	0.1
50°-60°	1.4	0.1
60°-70°	0.7	0.0
70°-80°	0.3	0.0
80°-90°	0.1	0.0
90°-100°	0.2	0.0
100°-110°	0.3	0.0
110°-120°	0.7	0.0
120°-130°	1.4	0.1
130°-140°	2.5	0.1
140°-150°	45.9	2.8
150°-160°	187.3	11.3
160°-170°	245.3	14.8
170°-180°	347.2	20.9
0°-30°	779.8	46.9
0°-40°	825.7	49.7
0°-60°	829.5	49.9
0°-90°	830.6	50.0
90°-120°	1.2	0.1
90°-150°	50.9	3.1
90°-180°	831.0	50.0
0°-180°	1661.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5926	
5°	4612	347
15°	798	245
25°	403	187
35°	24	46
45°	2	2
55°	2	1
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	1	1
125°	2	1
135°	2	2
145°	24	46
155°	403	187
165°	798	245
175°	4612	347
180°	5926	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5925.7
1°	5849.7
2°	5682.3
3°	5425.6
4°	5066.2
5°	4612.0
6°	4089.9
7°	3516.2
8°	2938.6
9°	2409.8
10°	1920.4
11°	1532.9
12°	1249.1
13°	1048.2
14°	905.3
15°	798.2
16°	715.9
17°	656.0
18°	608.5
19°	564.0
20°	525.8
22.5°	453.5
25°	402.6
26°	388.9
27°	377.5
28°	366.1
29°	336.0
30°	284.8
32.5°	128.2
35°	24.4
37.5°	13.4
40°	8.4
42.5°	3.7
45°	2.3
47.5°	2.0
50°	1.7
52.5°	1.7
55°	1.7
57.5°	1.3
60°	1.0
62.5°	1.0
65°	0.7
67.5°	0.3
70°	0.3
72.5°	0.3



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**CANDELA DISTRIBUTION (continued):**

	0°
75°	0.3
77.5°	0.3
80°	0.3
82.5°	0.3
85°	0.0
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.3
100°	0.3
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°	1.0
122.5°	1.3
125°	1.7
127.5°	1.7
130°	1.7
132.5°	2.0
135°	2.3
137.5°	3.7
140°	8.4
142.5°	13.4
145°	24.4
147.5°	128.2
150°	284.8
151°	336.0
152°	366.1
153°	377.5
154°	388.9
155°	402.6
157.5°	453.5
160°	525.8
161°	564.0
162°	608.5
163°	656.0
164°	715.9
165°	798.2
166°	905.3
167°	1048.2



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**CANDELA DISTRIBUTION (continued):**

	0°
168°	1249.1
169°	1532.9
170°	1920.4
171°	2409.8
172°	2938.6
173°	3516.2
174°	4089.9
175°	4612.0
176°	5066.2
177°	5425.6
178°	5682.3
179°	5849.7
180°	5925.7

(END OF REPORT)