

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: P221841

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221841  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29493)  
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-F-BK-L1-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, FLOOD OPTIC, BLACK HOUSING.  
Light Source: (1) 3500K CCT, 97 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1681.1 lumens  
Efficiency: N/A  
Efficacy: 85.3 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

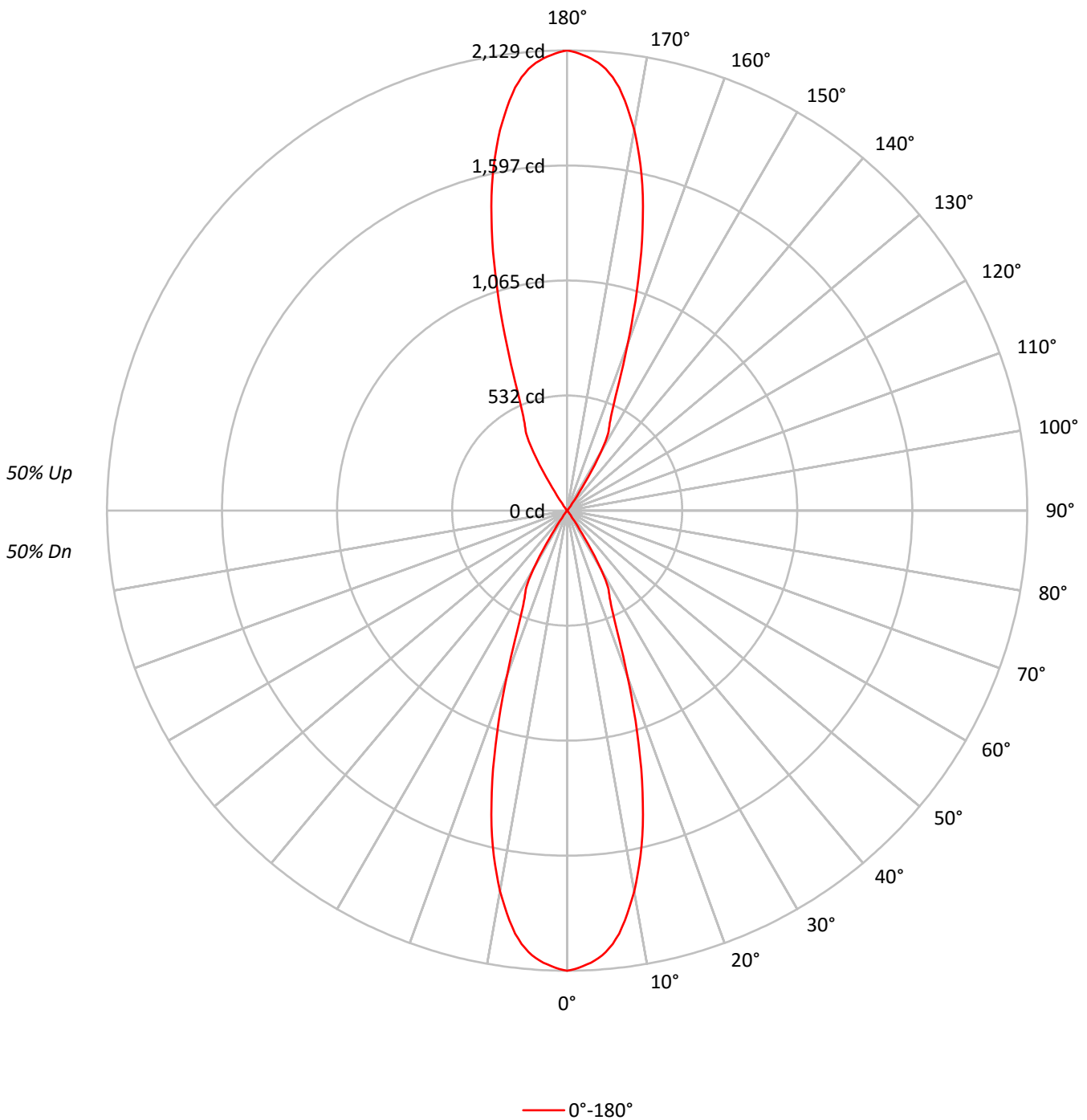
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	97	95	92	93	90	88	86	77	76	74	65	64	63	54	53	53	48
2	95	89	85	81	88	83	79	76	72	69	67	61	60	58	52	51	50	46
3	89	82	77	73	83	77	72	69	67	64	61	58	56	54	50	49	47	44
4	84	76	70	66	78	71	66	63	63	59	57	55	53	51	48	46	45	42
5	79	71	65	60	74	67	61	58	59	55	53	52	50	48	46	44	43	40
6	75	66	60	55	70	62	57	53	56	52	49	50	47	45	44	42	41	38
7	71	62	56	52	67	59	53	50	53	49	46	48	45	43	42	41	39	37
8	68	58	52	48	64	55	50	47	50	46	44	45	43	40	41	39	37	35
9	64	55	49	45	61	52	47	44	48	44	41	43	41	39	39	37	36	34
10	61	52	46	43	58	50	45	41	46	42	39	42	39	37	38	36	35	33

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

	0°
0°	262603
5°	253899
10°	223894
15°	172365
20°	106926
25°	65408
30°	44523
35°	5903
40°	1675
45°	401
50°	326
55°	215
60°	173
65°	204
70°	108
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	187.3	11.1
10°-20°	362.1	21.5
20°-30°	232.2	13.8
30°-40°	54.7	3.3
40°-50°	2.6	0.2
50°-60°	1.0	0.1
60°-70°	0.5	0.0
70°-80°	0.1	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.2	0.0
110°-120°	0.5	0.0
120°-130°	1.0	0.1
130°-140°	2.6	0.2
140°-150°	54.7	3.3
150°-160°	232.2	13.8
160°-170°	362.1	21.5
170°-180°	187.3	11.1
0°-30°	781.6	46.5
0°-40°	836.3	49.7
0°-60°	839.9	50.0
0°-90°	840.6	50.0
90°-120°	0.7	0.0
90°-150°	59.1	3.5
90°-180°	841.0	50.0
0°-180°	1681.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2129	
5°	2051	187
15°	1350	362
25°	481	232
35°	39	55
45°	2	3
55°	1	1
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	1	1
125°	1	1
135°	2	3
145°	39	55
155°	481	232
165°	1350	362
175°	2051	187
180°	2129	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2129.0
1°	2121.3
2°	2108.9
3°	2094.8
4°	2076.4
5°	2050.6
6°	2016.2
7°	1972.3
8°	1915.4
9°	1853.5
10°	1787.6
11°	1712.9
12°	1632.9
13°	1546.3
14°	1450.2
15°	1349.8
16°	1243.4
17°	1133.3
18°	1023.5
19°	917.0
20°	814.6
21°	723.6
22°	642.3
23°	574.0
24°	522.1
25°	480.6
26°	449.5
27°	425.4
28°	404.0
29°	367.5
30°	312.6
32.5°	149.3
35°	39.2
37.5°	20.8
40°	10.4
42.5°	3.3
45°	2.3
47.5°	2.0
50°	1.7
52.5°	1.3
55°	1.0
57.5°	1.0
60°	0.7
62.5°	0.7
65°	0.7



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	0.3
70°	0.3
72.5°	0.3
75°	0.0
77.5°	0.0
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°	0.0
105°	0.0
107.5°	0.3
110°	0.3
112.5°	0.3
115°	0.7
117.5°	0.7
120°	0.7
122.5°	1.0
125°	1.0
127.5°	1.3
130°	1.7
132.5°	2.0
135°	2.3
137.5°	3.3
140°	10.4
142.5°	20.8
145°	39.2
147.5°	149.3
150°	312.6
151°	367.5
152°	404.0
153°	425.4
154°	449.5
155°	480.6
156°	522.1
157°	574.0
158°	642.3
159°	723.6
160°	814.6
161°	917.0



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**CANDELA DISTRIBUTION (continued):**

	0°
162°	1023.5
163°	1133.3
164°	1243.4
165°	1349.8
166°	1450.2
167°	1546.3
168°	1632.9
169°	1712.9
170°	1787.6
171°	1853.5
172°	1915.4
173°	1972.3
174°	2016.2
175°	2050.6
176°	2076.4
177°	2094.8
178°	2108.9
179°	2121.3
180°	2129.0

(END OF REPORT)