

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: P222100

Luminaire Tested: **9004-W2-FL-LED3597-W-BK-L2-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P222100  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29499)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 9004-W2-FL-LED3597-W-BK-L2-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, WIDE FLOOD OPTIC, BLACK HOUSING.  
Light Source: (1) 3500K CCT, 97 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3448.4 lumens  
Efficiency: N/A  
Efficacy: 85.8 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.91  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: General Diffuse

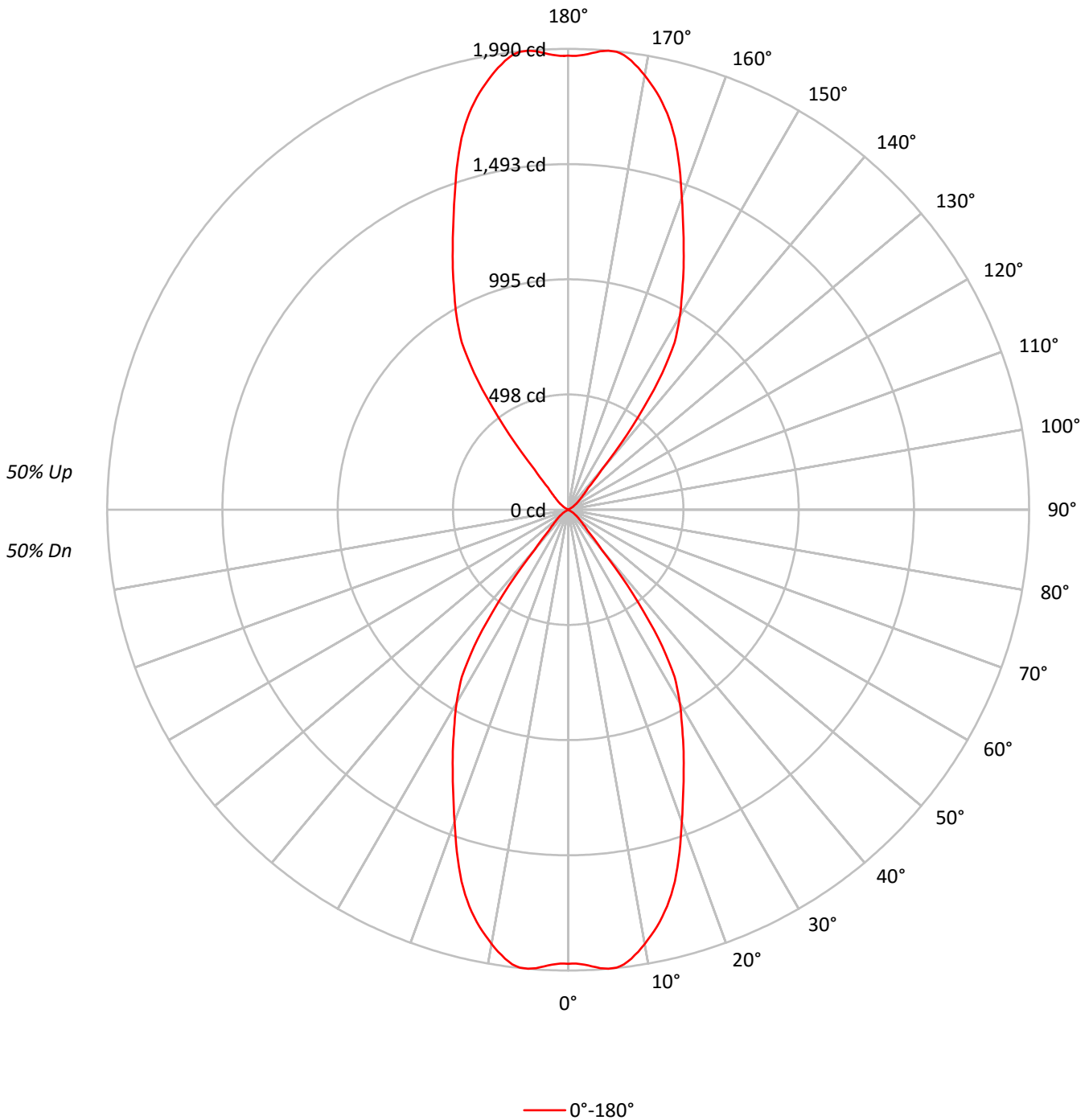
Input Watts (W): 40.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	92	90	87	85	76	75	73		64	63	62		53	53	52	47
2	93	88	83	79	86	81	77	74	70	67	65		60	58	56		50	49	48	43
3	87	80	74	69	81	74	69	65	65	61	58		56	53	51		47	46	44	40
4	81	73	66	61	76	68	63	58	60	56	52		52	49	47		44	42	41	38
5	76	67	60	55	71	63	57	53	55	51	48		48	45	43		42	40	38	35
6	71	61	55	50	66	58	52	48	51	47	43		45	42	39		39	37	35	33
7	67	57	50	45	62	54	48	44	48	43	40		42	39	36		37	35	33	31
8	63	52	46	41	59	50	44	40	45	40	37		40	36	34		35	33	31	29
9	59	49	42	38	56	46	41	37	42	37	34		37	34	31		33	31	29	27
10	56	46	39	35	52	43	38	34	39	35	32		35	32	29		31	29	27	25

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

	0°
0°	241856
5°	246383
10°	238548
15°	219690
20°	188269
25°	160553
30°	137300
35°	102633
40°	36422
45°	17025
50°	11264
55°	7570
60°	3799
65°	905
70°	685
75°	572
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	187.2	5.4
10°-20°	474.9	13.8
20°-30°	542.1	15.7
30°-40°	398.0	11.5
40°-50°	84.5	2.4
50°-60°	31.9	0.9
60°-70°	4.5	0.1
70°-80°	1.2	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	1.2	0.0
110°-120°	4.5	0.1
120°-130°	31.9	0.9
130°-140°	84.5	2.4
140°-150°	398.0	11.5
150°-160°	542.1	15.7
160°-170°	474.9	13.8
170°-180°	187.2	5.4
0°-30°	1204.2	34.9
0°-40°	1602.1	46.5
0°-60°	1718.5	49.8
0°-90°	1724.2	50.0
90°-120°	5.8	0.2
90°-150°	520.1	15.1
90°-180°	1724.0	50.0
0°-180°	3448.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1961	
5°	1990	187
15°	1720	475
25°	1180	542
35°	682	398
45°	98	84
55°	35	32
65°	3	5
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	3	5
125°	35	32
135°	98	84
145°	682	398
155°	1180	542
165°	1720	475
175°	1990	187
180°	1961	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1960.8
1°	1960.2
2°	1965.2
3°	1975.0
4°	1984.3
5°	1989.9
6°	1988.6
7°	1978.1
8°	1957.7
9°	1932.4
10°	1904.6
11°	1873.1
12°	1840.9
13°	1804.5
14°	1764.9
15°	1720.4
16°	1669.8
17°	1613.5
18°	1555.4
19°	1494.3
20°	1434.3
21°	1378.7
22°	1324.9
23°	1274.3
24°	1226.1
25°	1179.7
26°	1134.6
27°	1088.9
28°	1045.0
29°	1004.2
30°	964.0
32.5°	855.9
35°	681.6
37.5°	460.4
40°	226.2
42.5°	127.3
45°	97.6
47.5°	76.6
50°	58.7
52.5°	46.3
55°	35.2
57.5°	25.3
60°	15.4
62.5°	4.3
65°	3.1



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	2.5
70°	1.9
72.5°	1.9
75°	1.2
77.5°	0.6
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°	0.6
105°	1.2
107.5°	1.9
110°	1.9
112.5°	2.5
115°	3.1
117.5°	4.3
120°	15.4
122.5°	25.3
125°	35.2
127.5°	46.3
130°	58.7
132.5°	76.6
135°	97.6
137.5°	127.3
140°	226.2
142.5°	460.4
145°	681.6
147.5°	855.9
150°	964.0
151°	1004.2
152°	1045.0
153°	1088.9
154°	1134.6
155°	1179.7
156°	1226.1
157°	1274.3
158°	1324.9
159°	1378.7
160°	1434.3
161°	1494.3



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**CANDELA DISTRIBUTION (continued):**

	0°
162°	1555.4
163°	1613.5
164°	1669.8
165°	1720.4
166°	1764.9
167°	1804.5
168°	1840.9
169°	1873.1
170°	1904.6
171°	1932.4
172°	1957.7
173°	1978.1
174°	1988.6
175°	1989.9
176°	1984.3
177°	1975.0
178°	1965.2
179°	1960.2
180°	1960.8

(END OF REPORT)