

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: P221836

Luminaire Tested: **9004-W2-[RW, RI]-LED3590-W-BK-L2-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221836  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29494)  
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]-LED3590-W-BK-L2-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, WIDE FLOOD OPTIC, BLACK HOUSING.  
Light Source: (1) 3500K CCT, 90 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2978.5 lumens  
Efficiency: N/A  
Efficacy: 74.1 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.83  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: General Diffuse

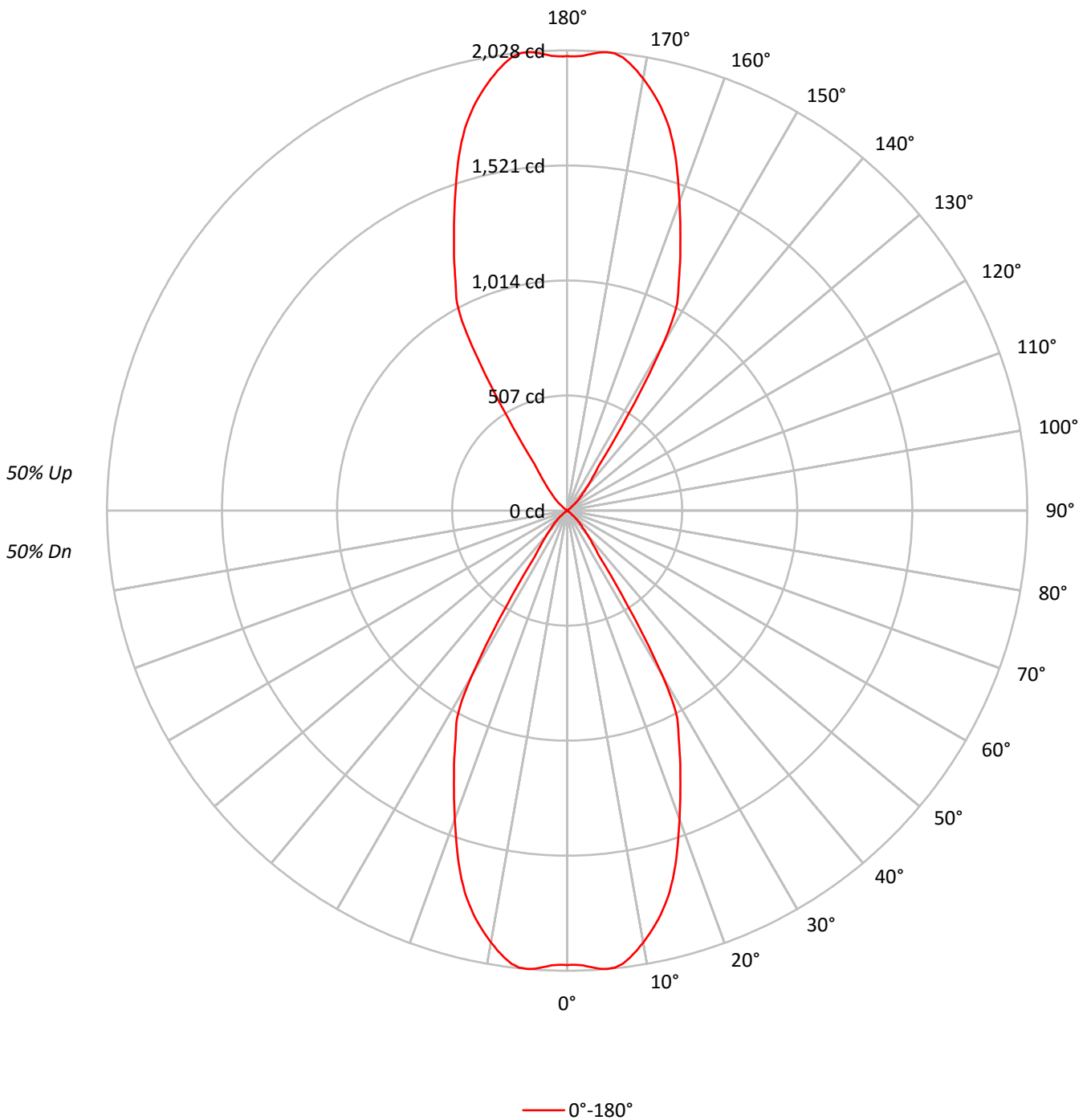
Input Watts (W): 40.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	97	94	91	93	90	87	85	77	75	74	65	64	63	53	53	52	47
2	94	88	83	79	87	82	78	75	71	68	66	60	59	57	51	50	49	44
3	88	80	75	70	81	75	70	67	65	62	59	56	54	52	48	47	45	42
4	82	74	68	63	76	69	64	60	61	57	54	53	50	48	46	44	42	39
5	77	68	62	57	72	64	58	54	57	52	49	50	47	44	43	41	40	37
6	72	63	56	52	68	59	54	50	53	49	45	47	44	41	41	39	37	35
7	68	58	52	47	64	55	50	46	49	45	42	44	41	38	39	37	35	33
8	64	54	48	44	60	52	46	42	46	42	39	41	38	36	37	35	33	31
9	61	51	45	40	57	48	43	39	44	39	36	39	36	34	35	33	31	29
10	58	48	42	38	54	45	40	36	41	37	34	37	34	32	33	31	29	28

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

	0°
0°	247037
5°	251076
10°	242018
15°	222448
20°	189923
25°	159560
30°	119440
35°	37479
40°	22204
45°	13501
50°	5622
55°	946
60°	617
65°	350
70°	216
75°	286
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	190.5	6.4
10°-20°	480.5	16.1
20°-30°	535.1	18.0
30°-40°	213.5	7.2
40°-50°	61.0	2.0
50°-60°	6.8	0.2
60°-70°	1.3	0.0
70°-80°	0.6	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.6	0.0
110°-120°	1.3	0.0
120°-130°	6.8	0.2
130°-140°	61.0	2.0
140°-150°	213.5	7.2
150°-160°	535.1	18.0
160°-170°	480.5	16.1
170°-180°	190.5	6.4
0°-30°	1206.1	40.5
0°-40°	1419.6	47.7
0°-60°	1487.4	49.9
0°-90°	1489.3	50.0
90°-120°	1.8	0.1
90°-150°	283.1	9.5
90°-180°	1489.0	50.0
0°-180°	2978.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2003	
5°	2028	191
15°	1742	480
25°	1172	535
35°	249	214
45°	77	61
55°	4	7
65°	1	1
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	1	1
125°	4	7
135°	77	61
145°	249	214
155°	1172	535
165°	1742	480
175°	2028	191
180°	2003	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2002.8
1°	2002.2
2°	2005.9
3°	2015.3
4°	2024.0
5°	2027.8
6°	2025.3
7°	2012.2
8°	1989.7
9°	1962.2
10°	1932.3
11°	1899.9
12°	1866.2
13°	1828.7
14°	1787.5
15°	1742.0
16°	1689.0
17°	1632.2
18°	1570.4
19°	1507.4
20°	1446.9
21°	1388.2
22°	1332.1
23°	1277.2
24°	1225.4
25°	1172.4
26°	1122.4
27°	1079.4
28°	1034.5
29°	955.2
30°	838.6
32.5°	490.4
35°	248.9
37.5°	184.1
40°	137.9
42.5°	102.3
45°	77.4
47.5°	57.4
50°	29.3
52.5°	7.5
55°	4.4
57.5°	3.1
60°	2.5
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°	0.0
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°	0.6
107.5°	0.6
110°	0.6
112.5°	0.6
115°	1.2
117.5°	1.9
120°	2.5
122.5°	3.1
125°	4.4
127.5°	7.5
130°	29.3
132.5°	57.4
135°	77.4
137.5°	102.3
140°	137.9
142.5°	184.1
145°	248.9
147.5°	490.4
150°	838.6
151°	955.2
152°	1034.5
153°	1079.4
154°	1122.4
155°	1172.4
156°	1225.4
157°	1277.2
158°	1332.1
159°	1388.2
160°	1446.9
161°	1507.4



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**CANDELA DISTRIBUTION (continued):**

	0°
162°	1570.4
163°	1632.2
164°	1689.0
165°	1742.0
166°	1787.5
167°	1828.7
168°	1866.2
169°	1899.9
170°	1932.3
171°	1962.2
172°	1989.7
173°	2012.2
174°	2025.3
175°	2027.8
176°	2024.0
177°	2015.3
178°	2005.9
179°	2002.2
180°	2002.8

(END OF REPORT)