

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: P221838

Luminaire Tested: **9004-W2-[RW, RI]-LED3590-W-WT-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221838  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29490)  
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-WT-L1-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, WIDE FLOOD OPTIC, WHITE HOUSING.  
Light Source: (1) 3500K CCT, 90 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1755.6 lumens  
Efficiency: N/A  
Efficacy: 89.1 lumens/watt  
Spacing Criteria (0/90/45): 0.84 / 0.84 / 0.83  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: General Diffuse

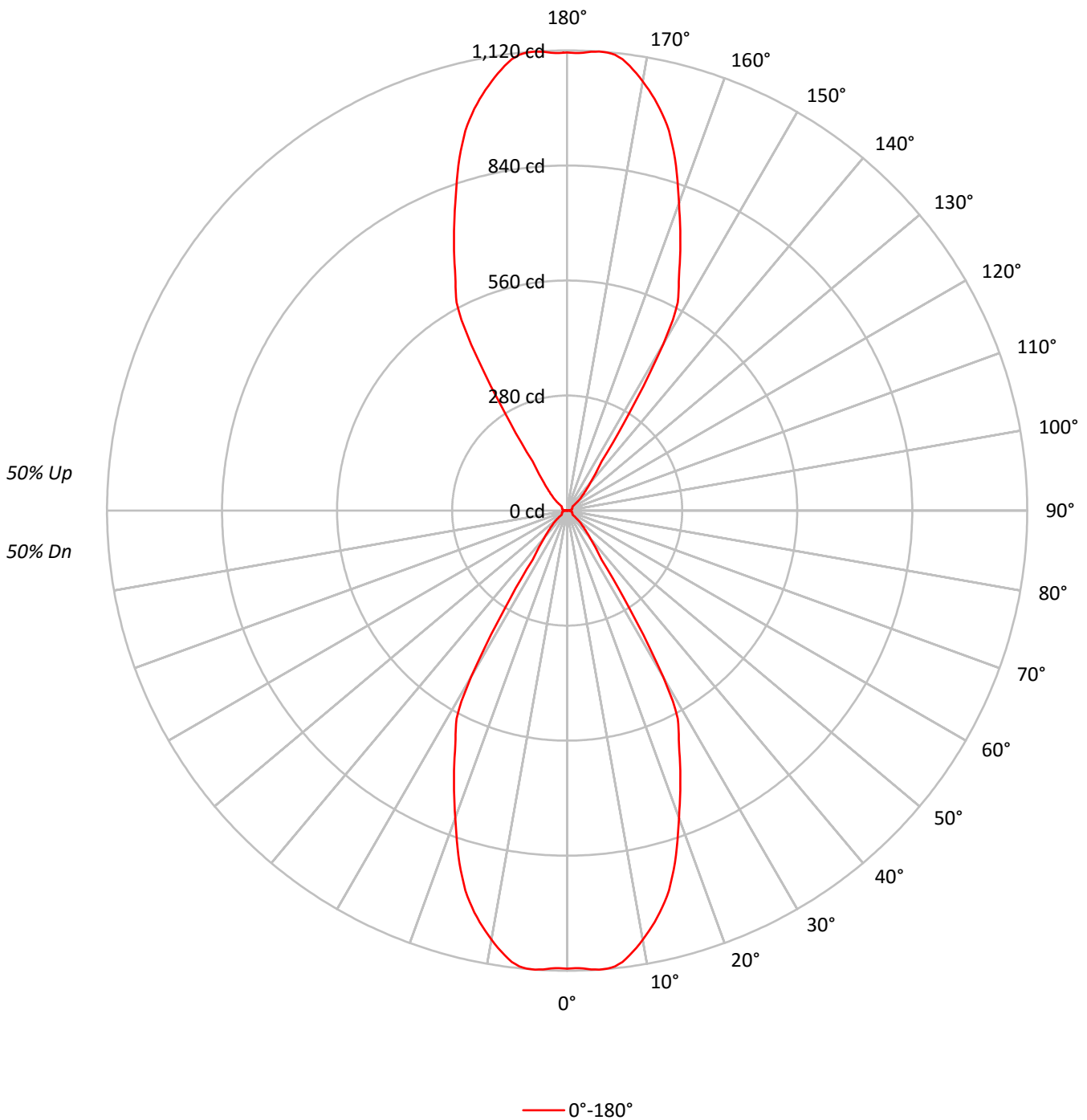
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	96	93	90	92	89	87	84	76	74	73	64	63	62	53	52	51	46
2	93	87	82	78	86	81	77	73	70	67	64	59	57	56	50	48	47	43
3	87	79	73	69	80	74	69	65	64	61	58	55	53	51	47	45	44	40
4	81	72	66	61	75	68	62	58	59	55	52	51	49	46	44	42	41	37
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	44	45	42	39	39	37	35	33
7	67	57	50	46	63	54	48	44	48	43	40	42	39	37	37	35	33	31
8	63	53	46	42	59	50	44	40	45	40	37	40	37	34	35	33	31	29
9	60	49	43	39	56	47	41	37	42	38	35	38	34	32	34	31	29	28
10	56	46	40	36	53	44	38	35	40	35	32	36	32	30	32	30	28	26

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

	0°
0°	137506
5°	138613
10°	132813
15°	122206
20°	104458
25°	87932
30°	66471
35°	22090
40°	14041
45°	9542
50°	5584
55°	3333
60°	3676
65°	4057
70°	4616
75°	5624
80°	6748
85°	6652



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.9	6.0
10°-20°	263.9	15.0
20°-30°	295.6	16.8
30°-40°	123.7	7.0
40°-50°	42.9	2.4
50°-60°	15.6	0.9
60°-70°	13.7	0.8
70°-80°	12.2	0.7
80°-90°	5.1	0.3
90°-100°	5.1	0.3
100°-110°	12.2	0.7
110°-120°	13.7	0.8
120°-130°	15.6	0.9
130°-140°	42.9	2.4
140°-150°	123.7	7.0
150°-160°	295.6	16.8
160°-170°	263.9	15.0
170°-180°	104.9	6.0
0°-30°	664.5	37.9
0°-40°	788.2	44.9
0°-60°	846.7	48.2
0°-90°	877.8	50.0
90°-120°	31.1	1.8
90°-150°	213.3	12.1
90°-180°	878.0	50.0
0°-180°	1755.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1115	
5°	1120	105
15°	957	264
25°	646	296
35°	147	124
45°	55	43
55°	16	16
65°	14	14
75°	12	12
85°	5	5
90°	0	1
95°	5	5
105°	12	12
115°	14	14
125°	16	16
135°	55	43
145°	147	124
155°	646	296
165°	957	264
175°	1120	105
180°	1115	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1114.8
1°	1113.8
2°	1114.8
3°	1118.2
4°	1120.2
5°	1119.5
6°	1115.5
7°	1106.7
8°	1092.8
9°	1077.3
10°	1060.4
11°	1042.5
12°	1024.2
13°	1003.6
14°	981.6
15°	957.0
16°	927.6
17°	896.8
18°	863.7
19°	829.2
20°	795.8
21°	764.7
22°	734.6
23°	704.9
24°	675.8
25°	646.1
26°	620.1
27°	597.1
28°	573.4
29°	530.2
30°	466.7
32.5°	279.8
35°	146.7
37.5°	112.2
40°	87.2
42.5°	67.9
45°	54.7
47.5°	43.9
50°	29.1
52.5°	17.2
55°	15.5
57.5°	15.2
60°	14.9
62.5°	14.5
65°	13.9



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	13.2
70°	12.8
72.5°	12.5
75°	11.8
77.5°	10.8
80°	9.5
82.5°	7.4
85°	4.7
87.5°	2.0
90°	0.0
92.5°	2.0
95°	4.7
97.5°	7.4
100°	9.5
102.5°	10.8
105°	11.8
107.5°	12.5
110°	12.8
112.5°	13.2
115°	13.9
117.5°	14.5
120°	14.9
122.5°	15.2
125°	15.5
127.5°	17.2
130°	29.1
132.5°	43.9
135°	54.7
137.5°	67.9
140°	87.2
142.5°	112.2
145°	146.7
147.5°	279.8
150°	466.7
151°	530.2
152°	573.4
153°	597.1
154°	620.1
155°	646.1
156°	675.8
157°	704.9
158°	734.6
159°	764.7
160°	795.8
161°	829.2



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**CANDELA DISTRIBUTION (continued):**

	0°
162°	863.7
163°	896.8
164°	927.6
165°	957.0
166°	981.6
167°	1003.6
168°	1024.2
169°	1042.5
170°	1060.4
171°	1077.3
172°	1092.8
173°	1106.7
174°	1115.5
175°	1119.5
176°	1120.2
177°	1118.2
178°	1114.8
179°	1113.8
180°	1114.8

(END OF REPORT)