

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: P221828

Luminaire Tested: **9004-W2-[RW, RI]-LED3590-M-WT-L3-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221828  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29488)  
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-M-WT-L3-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, MEDIUM FLOOD OPTIC, WHITE HOUSING.  
Light Source: (1) 3500K CCT, 90 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4280.5 lumens  
Efficiency: N/A  
Efficacy: 75.1 lumens/watt  
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: General Diffuse

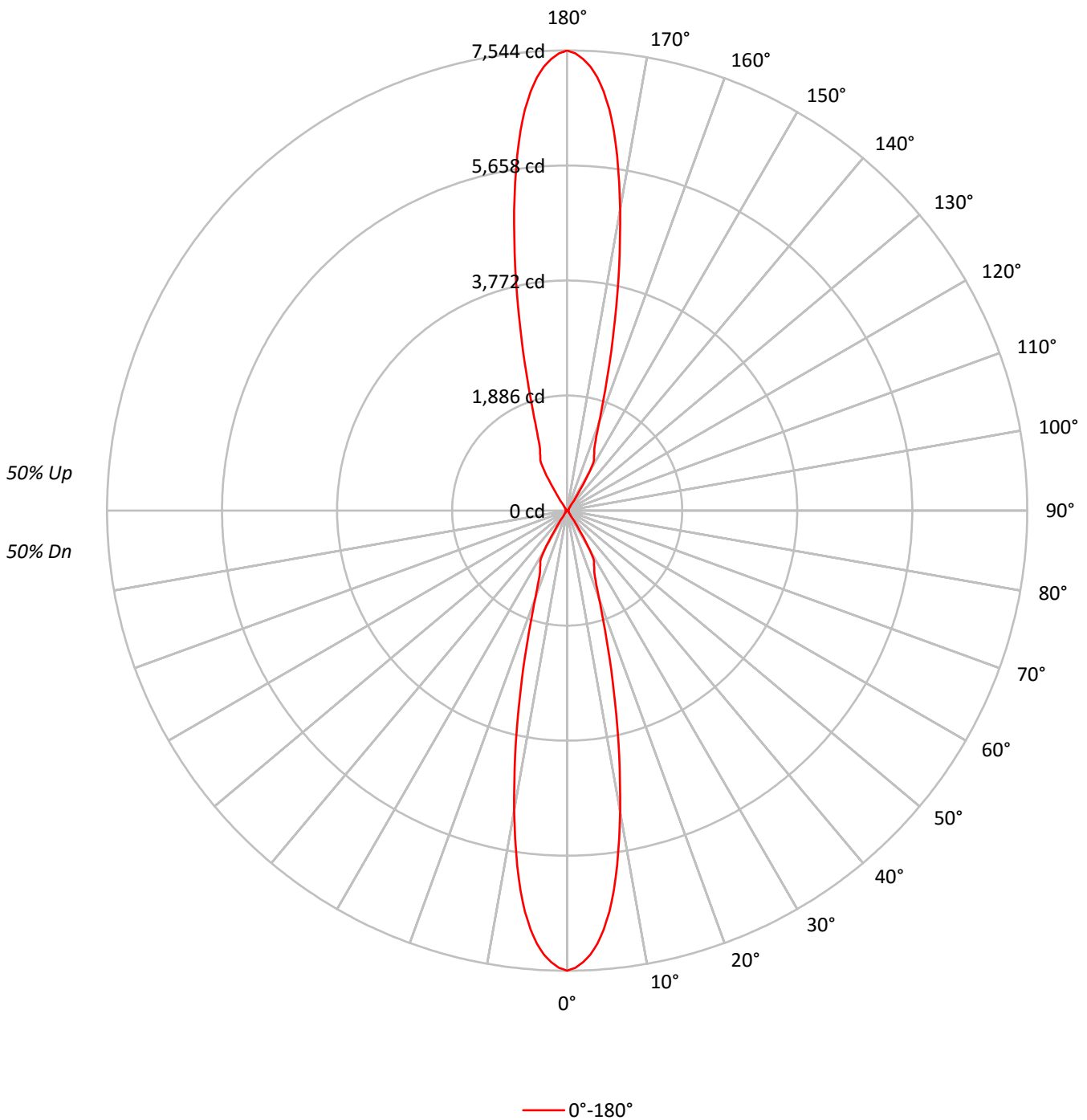
Input Watts (W): 57  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	92	93	90	88	85	77	75	74	65	64	63	54	53	52	47
2	94	89	84	80	87	83	79	75	71	69	66	61	59	58	51	50	49	45
3	88	81	76	72	82	76	72	68	67	63	61	57	55	53	49	48	47	43
4	83	75	69	65	78	71	66	62	62	59	56	54	52	50	47	46	44	41
5	79	70	64	59	73	66	61	57	59	55	52	52	49	47	45	44	42	39
6	75	65	59	55	70	62	57	53	55	51	48	49	46	44	44	42	40	38
7	71	61	55	51	66	58	53	49	53	49	46	47	44	42	42	40	39	36
8	67	58	52	48	63	55	50	46	50	46	43	45	42	40	41	39	37	35
9	64	55	49	45	60	52	47	44	48	44	41	43	40	38	39	37	36	34
10	61	52	46	43	58	50	45	41	46	42	39	42	39	37	38	36	34	33

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

	0°
0°	930532
5°	853321
10°	626180
15°	366745
20°	200108
25°	142575
30°	105453
35°	15208
40°	8325
45°	5913
50°	6045
55°	6258
60°	6981
65°	7793
70°	9052
75°	11152
80°	13212
85°	12596



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	596.5	13.9
10°-20°	798.6	18.7
20°-30°	493.0	11.5
30°-40°	137.4	3.2
40°-50°	27.8	0.6
50°-60°	26.4	0.6
60°-70°	26.7	0.6
70°-80°	23.9	0.6
80°-90°	10.0	0.2
90°-100°	10.0	0.2
100°-110°	23.9	0.6
110°-120°	26.7	0.6
120°-130°	26.4	0.6
130°-140°	27.8	0.6
140°-150°	137.4	3.2
150°-160°	493.0	11.5
160°-170°	798.6	18.7
170°-180°	596.5	13.9
0°-30°	1888.1	44.1
0°-40°	2025.5	47.3
0°-60°	2079.7	48.6
0°-90°	2140.3	50.0
90°-120°	60.6	1.4
90°-150°	252.2	5.9
90°-180°	2140.0	50.0
0°-180°	4280.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7544	
5°	6892	596
15°	2872	799
25°	1048	493
35°	101	137
45°	34	28
55°	29	26
65°	27	27
75°	23	24
85°	9	9
90°	0	1
95°	9	9
105°	23	24
115°	27	27
125°	29	26
135°	34	28
145°	101	137
155°	1048	493
165°	2872	799
175°	6892	596
180°	7544	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	7544.1
1°	7497.2
2°	7410.7
3°	7287.9
4°	7118.9
5°	6891.8
6°	6610.5
7°	6275.8
8°	5876.5
9°	5447.3
10°	4999.5
11°	4543.6
12°	4093.4
13°	3654.4
14°	3247.0
15°	2872.0
16°	2526.8
17°	2217.2
18°	1945.6
19°	1713.7
20°	1524.5
21°	1368.5
22°	1251.3
23°	1162.4
24°	1096.1
25°	1047.6
26°	1008.0
27°	973.2
28°	940.1
29°	865.7
30°	740.4
32.5°	358.9
35°	101.0
37.5°	69.5
40°	51.7
42.5°	36.4
45°	33.9
47.5°	32.3
50°	31.5
52.5°	29.9
55°	29.1
57.5°	29.1
60°	28.3
62.5°	28.3
65°	26.7



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	25.9
70°	25.1
72.5°	24.2
75°	23.4
77.5°	21.0
80°	18.6
82.5°	14.5
85°	8.9
87.5°	4.0
90°	0.0
92.5°	4.0
95°	8.9
97.5°	14.5
100°	18.6
102.5°	21.0
105°	23.4
107.5°	24.2
110°	25.1
112.5°	25.9
115°	26.7
117.5°	28.3
120°	28.3
122.5°	29.1
125°	29.1
127.5°	29.9
130°	31.5
132.5°	32.3
135°	33.9
137.5°	36.4
140°	51.7
142.5°	69.5
145°	101.0
147.5°	358.9
150°	740.4
151°	865.7
152°	940.1
153°	973.2
154°	1008.0
155°	1047.6
156°	1096.1
157°	1162.4
158°	1251.3
159°	1368.5
160°	1524.5
161°	1713.7



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**CANDELA DISTRIBUTION (continued):**

	0°
162°	1945.6
163°	2217.2
164°	2526.8
165°	2872.0
166°	3247.0
167°	3654.4
168°	4093.4
169°	4543.6
170°	4999.5
171°	5447.3
172°	5876.5
173°	6275.8
174°	6610.5
175°	6891.8
176°	7118.9
177°	7287.9
178°	7410.7
179°	7497.2
180°	7544.1

(END OF REPORT)