

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: P221840

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221840
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-L3-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: 4199.6 lumens
Efficiency: N/A
Efficacy: 73.7 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

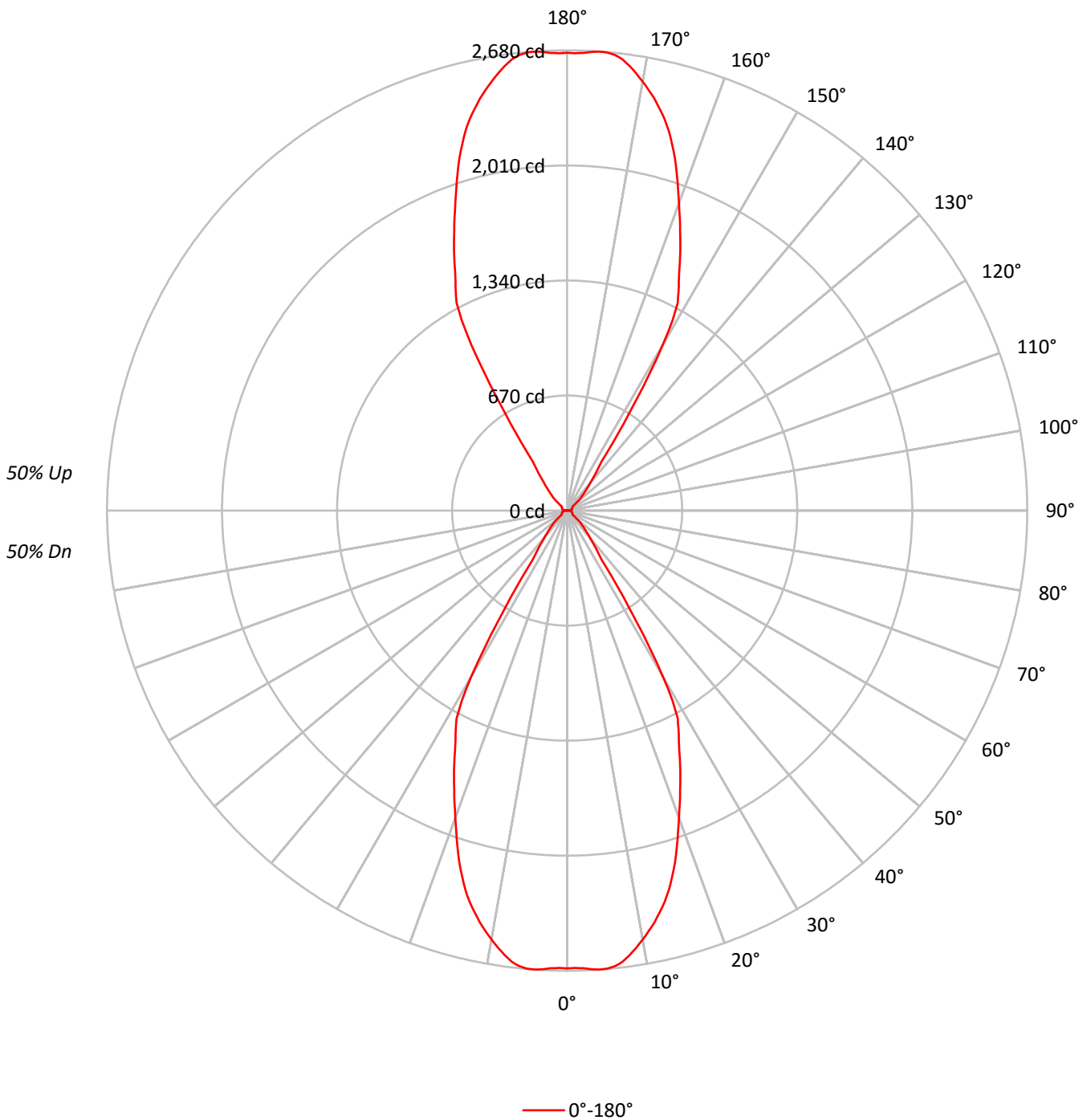
Input Watts (W): 57
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	328926
5°	331581
10°	317693
15°	292323
20°	249870
25°	210338
30°	158992
35°	52822
40°	33572
45°	22834
50°	13336
55°	8000
60°	8782
65°	9661
70°	11072
75°	13487
80°	16053
85°	15992



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.0	6.0
10°-20°	631.4	15.0
20°-30°	707.2	16.8
30°-40°	295.7	7.0
40°-50°	102.7	2.4
50°-60°	37.3	0.9
60°-70°	32.9	0.8
70°-80°	29.3	0.7
80°-90°	12.3	0.3
90°-100°	12.3	0.3
100°-110°	29.3	0.7
110°-120°	32.9	0.8
120°-130°	37.3	0.9
130°-140°	102.7	2.4
140°-150°	295.7	7.0
150°-160°	707.2	16.8
160°-170°	631.4	15.0
170°-180°	251.0	6.0
0°-30°	1589.6	37.9
0°-40°	1885.4	44.9
0°-60°	2025.4	48.2
0°-90°	2099.8	50.0
90°-120°	74.4	1.8
90°-150°	510.2	12.1
90°-180°	2100.0	50.0
0°-180°	4199.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2667	
5°	2678	251
15°	2289	631
25°	1546	707
35°	351	296
45°	131	103
55°	37	37
65°	33	33
75°	28	29
85°	11	12
90°	0	1
95°	11	12
105°	28	29
115°	33	33
125°	37	37
135°	131	103
145°	351	296
155°	1546	707
165°	2289	631
175°	2678	251
180°	2667	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2666.7
1°	2664.2
2°	2666.7
3°	2674.8
4°	2679.6
5°	2678.0
6°	2668.3
7°	2647.3
8°	2614.1
9°	2576.9
10°	2536.5
11°	2493.7
12°	2450.0
13°	2400.7
14°	2348.2
15°	2289.2
16°	2218.9
17°	2145.3
18°	2066.1
19°	1983.6
20°	1903.6
21°	1829.2
22°	1757.3
23°	1686.2
24°	1616.7
25°	1545.5
26°	1483.3
27°	1428.3
28°	1371.7
29°	1268.3
30°	1116.3
32.5°	669.3
35°	350.8
37.5°	268.4
40°	208.5
42.5°	162.5
45°	130.9
47.5°	105.1
50°	69.5
52.5°	41.2
55°	37.2
57.5°	36.4
60°	35.6
62.5°	34.8
65°	33.1



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	31.5
70°	30.7
72.5°	29.9
75°	28.3
77.5°	25.9
80°	22.6
82.5°	17.8
85°	11.3
87.5°	4.8
90°	0.0
92.5°	4.8
95°	11.3
97.5°	17.8
100°	22.6
102.5°	25.9
105°	28.3
107.5°	29.9
110°	30.7
112.5°	31.5
115°	33.1
117.5°	34.8
120°	35.6
122.5°	36.4
125°	37.2
127.5°	41.2
130°	69.5
132.5°	105.1
135°	130.9
137.5°	162.5
140°	208.5
142.5°	268.4
145°	350.8
147.5°	669.3
150°	1116.3
151°	1268.3
152°	1371.7
153°	1428.3
154°	1483.3
155°	1545.5
156°	1616.7
157°	1686.2
158°	1757.3
159°	1829.2
160°	1903.6
161°	1983.6



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CANDELA DISTRIBUTION (continued):

	0°
162°	2066.1
163°	2145.3
164°	2218.9
165°	2289.2
166°	2348.2
167°	2400.7
168°	2450.0
169°	2493.7
170°	2536.5
171°	2576.9
172°	2614.1
173°	2647.3
174°	2668.3
175°	2678.0
176°	2679.6
177°	2674.8
178°	2666.7
179°	2664.2
180°	2666.7

(END OF REPORT)