

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: P221844

Luminaire Tested: **9004-W2-[RW, RI]-LED3597-F-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221844
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29489)
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]-LED3597-F-WT-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 3500K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1806.6 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.57
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

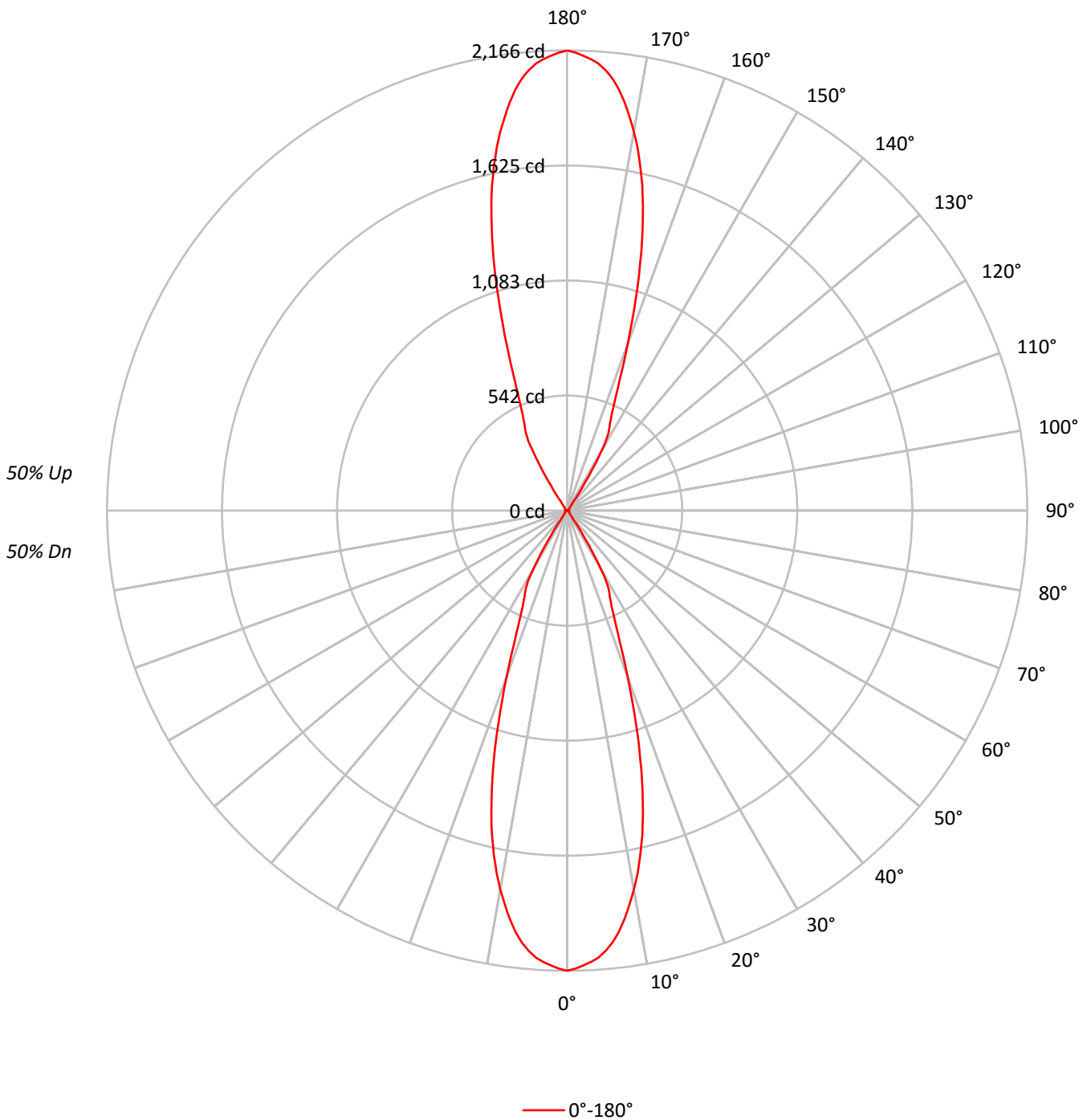
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	97	94	91	93	90	87	85	77	75	74	65	64	63	53	53	52	47
2	94	88	84	80	87	82	78	75	71	68	66	61	59	57	51	50	49	45
3	88	81	76	71	82	76	71	67	66	63	60	57	55	53	49	47	46	42
4	83	75	69	64	77	70	65	61	62	58	55	54	51	49	47	45	44	40
5	78	69	63	59	73	65	60	56	58	54	51	51	48	46	45	43	41	39
6	74	65	58	54	69	61	56	52	55	51	48	49	46	43	43	41	39	37
7	70	60	54	50	66	57	52	48	52	48	45	46	43	41	41	39	38	35
8	66	57	51	47	62	54	49	45	49	45	42	44	41	39	39	37	36	34
9	63	54	48	44	60	51	46	42	46	42	40	42	39	37	38	36	34	33
10	60	51	45	41	57	48	43	40	44	40	38	40	37	35	37	34	33	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	267142
5°	257588
10°	226825
15°	175149
20°	109341
25°	67327
30°	46146
35°	7258
40°	3285
45°	2215
50°	2303
55°	2516
60°	2812
65°	3123
70°	3606
75°	4480
80°	5256
85°	5236



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.9	10.5
10°-20°	368.3	20.4
20°-30°	238.5	13.2
30°-40°	61.4	3.4
40°-50°	10.5	0.6
50°-60°	10.6	0.6
60°-70°	10.6	0.6
70°-80°	9.6	0.5
80°-90°	4.0	0.2
90°-100°	4.0	0.2
100°-110°	9.6	0.5
110°-120°	10.6	0.6
120°-130°	10.6	0.6
130°-140°	10.5	0.6
140°-150°	61.4	3.4
150°-160°	238.5	13.2
160°-170°	368.3	20.4
170°-180°	189.9	10.5
0°-30°	796.7	44.1
0°-40°	858.1	47.5
0°-60°	879.1	48.7
0°-90°	903.3	50.0
90°-120°	24.2	1.3
90°-150°	106.6	5.9
90°-180°	903.0	50.0
0°-180°	1806.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2166	
5°	2080	190
15°	1372	368
25°	495	238
35°	48	61
45°	13	10
55°	12	11
65°	11	11
75°	9	10
85°	4	4
90°	0	0
95°	4	4
105°	9	10
115°	11	11
125°	12	11
135°	13	10
145°	48	61
155°	495	238
165°	1372	368
175°	2080	190
180°	2166	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2165.8
1°	2156.1
2°	2143.4
3°	2128.3
4°	2108.9
5°	2080.4
6°	2044.3
7°	1997.1
8°	1940.5
9°	1877.6
10°	1811.0
11°	1738.0
12°	1657.7
13°	1570.7
14°	1475.3
15°	1371.6
16°	1264.5
17°	1154.3
18°	1043.9
19°	935.1
20°	833.0
21°	739.7
22°	658.3
23°	589.7
24°	535.8
25°	494.7
26°	462.2
27°	437.1
28°	416.0
29°	379.2
30°	324.0
32.5°	162.0
35°	48.2
37.5°	30.8
40°	20.4
42.5°	13.1
45°	12.7
47.5°	12.4
50°	12.0
52.5°	12.0
55°	11.7
57.5°	11.7
60°	11.4
62.5°	11.0
65°	10.7



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	10.4
70°	10.0
72.5°	9.7
75°	9.4
77.5°	8.4
80°	7.4
82.5°	5.7
85°	3.7
87.5°	1.7
90°	0.0
92.5°	1.7
95°	3.7
97.5°	5.7
100°	7.4
102.5°	8.4
105°	9.4
107.5°	9.7
110°	10.0
112.5°	10.4
115°	10.7
117.5°	11.0
120°	11.4
122.5°	11.7
125°	11.7
127.5°	12.0
130°	12.0
132.5°	12.4
135°	12.7
137.5°	13.1
140°	20.4
142.5°	30.8
145°	48.2
147.5°	162.0
150°	324.0
151°	379.2
152°	416.0
153°	437.1
154°	462.2
155°	494.7
156°	535.8
157°	589.7
158°	658.3
159°	739.7
160°	833.0
161°	935.1



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CANDELA DISTRIBUTION (continued):

	0°
162°	1043.9
163°	1154.3
164°	1264.5
165°	1371.6
166°	1475.3
167°	1570.7
168°	1657.7
169°	1738.0
170°	1811.0
171°	1877.6
172°	1940.5
173°	1997.1
174°	2044.3
175°	2080.4
176°	2108.9
177°	2128.3
178°	2143.4
179°	2156.1
180°	2165.8

(END OF REPORT)