

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: P221820

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221820
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]-LED3590-F-WT-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 3500K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1824.0 lumens
Efficiency: N/A
Efficacy: 92.6 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

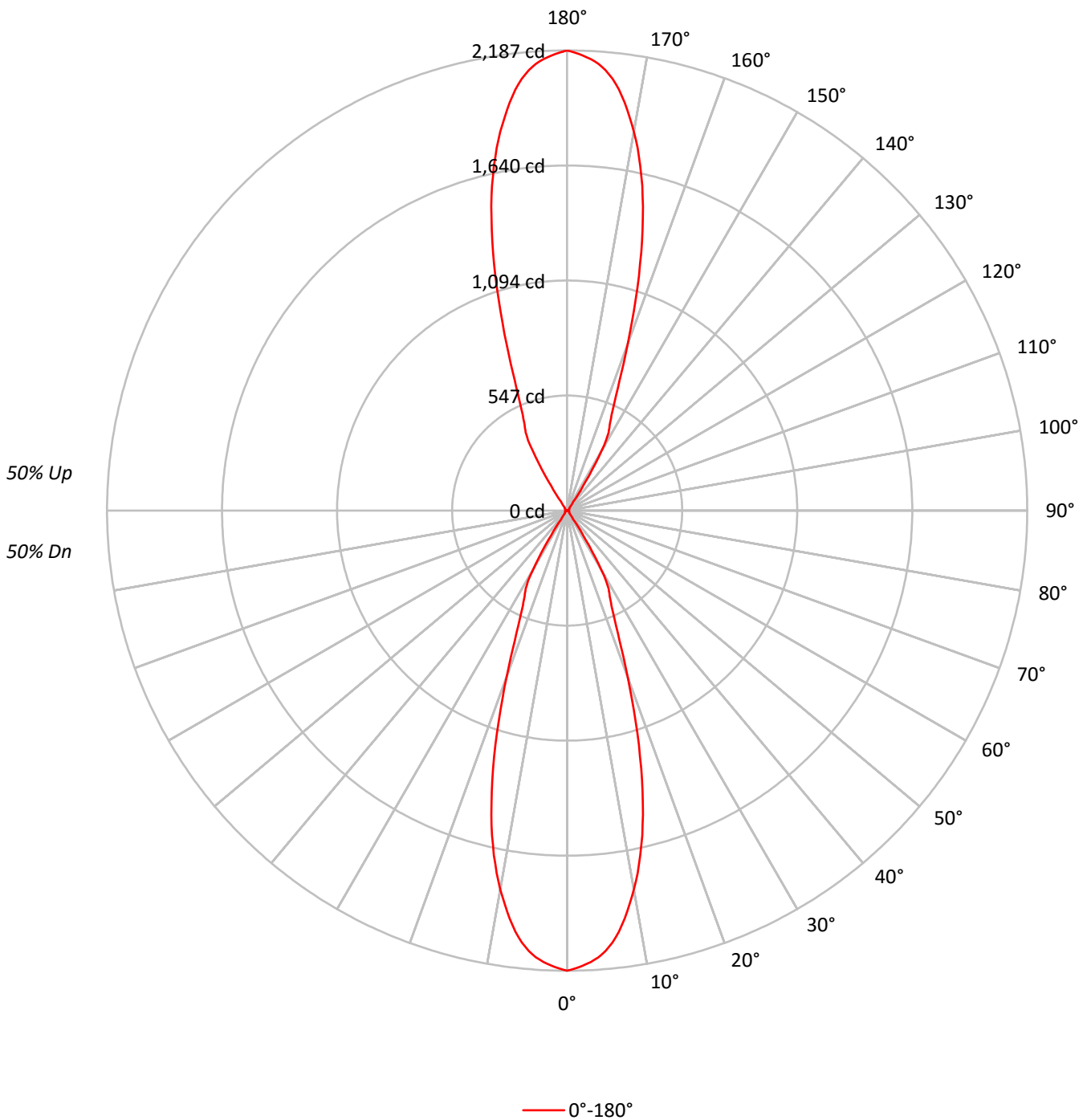
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	269708
5°	260077
10°	229017
15°	176835
20°	110404
25°	67967
30°	46588
35°	7333
40°	3317
45°	2233
50°	2341
55°	2538
60°	2837
65°	3152
70°	3642
75°	4527
80°	5256
85°	5236



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.8	10.5
10°-20°	371.8	20.4
20°-30°	240.8	13.2
30°-40°	62.0	3.4
40°-50°	10.6	0.6
50°-60°	10.7	0.6
60°-70°	10.7	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°	10.7	0.6
120°-130°	10.7	0.6
130°-140°	10.6	0.6
140°-150°	62.0	3.4
150°-160°	240.8	13.2
160°-170°	371.8	20.4
170°-180°	191.8	10.5
0°-30°	804.4	44.1
0°-40°	866.4	47.5
0°-60°	887.6	48.7
0°-90°	912.0	50.0
90°-120°	24.4	1.3
90°-150°	107.6	5.9
90°-180°	912.0	50.0
0°-180°	1824.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2187	
5°	2100	192
15°	1385	372
25°	499	241
35°	49	62
45°	13	11
55°	12	11
65°	11	11
75°	10	10
85°	4	4
90°	0	0
95°	4	4
105°	10	10
115°	11	11
125°	12	11
135°	13	11
145°	49	62
155°	499	241
165°	1385	372
175°	2100	192
180°	2187	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2186.6
1°	2176.8
2°	2164.0
3°	2148.8
4°	2129.2
5°	2100.5
6°	2064.0
7°	2016.3
8°	1959.2
9°	1895.7
10°	1828.5
11°	1754.8
12°	1673.7
13°	1585.8
14°	1489.5
15°	1384.8
16°	1276.6
17°	1165.5
18°	1054.0
19°	944.1
20°	841.1
21°	746.8
22°	664.7
23°	595.4
24°	541.0
25°	499.4
26°	466.7
27°	441.3
28°	420.0
29°	382.9
30°	327.1
32.5°	163.6
35°	48.7
37.5°	31.1
40°	20.6
42.5°	13.2
45°	12.8
47.5°	12.5
50°	12.2
52.5°	12.2
55°	11.8
57.5°	11.8
60°	11.5
62.5°	11.2
65°	10.8



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	10.5
70°	10.1
72.5°	9.8
75°	9.5
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°	9.5
107.5°	9.8
110°	10.1
112.5°	10.5
115°	10.8
117.5°	11.2
120°	11.5
122.5°	11.8
125°	11.8
127.5°	12.2
130°	12.2
132.5°	12.5
135°	12.8
137.5°	13.2
140°	20.6
142.5°	31.1
145°	48.7
147.5°	163.6
150°	327.1
151°	382.9
152°	420.0
153°	441.3
154°	466.7
155°	499.4
156°	541.0
157°	595.4
158°	664.7
159°	746.8
160°	841.1
161°	944.1



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CANDELA DISTRIBUTION (continued):

	0°
162°	1054.0
163°	1165.5
164°	1276.6
165°	1384.8
166°	1489.5
167°	1585.8
168°	1673.7
169°	1754.8
170°	1828.5
171°	1895.7
172°	1959.2
173°	2016.3
174°	2064.0
175°	2100.5
176°	2129.2
177°	2148.8
178°	2164.0
179°	2176.8
180°	2186.6

(END OF REPORT)