

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: P222069

Luminaire Tested: **9004-W2-FL-LED3590-S-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222069
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29496)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9004-W2-FL-LED3590-S-BK-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, SPOT OPTIC, BLACK HOUSING.
Light Source: (1) 3500K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

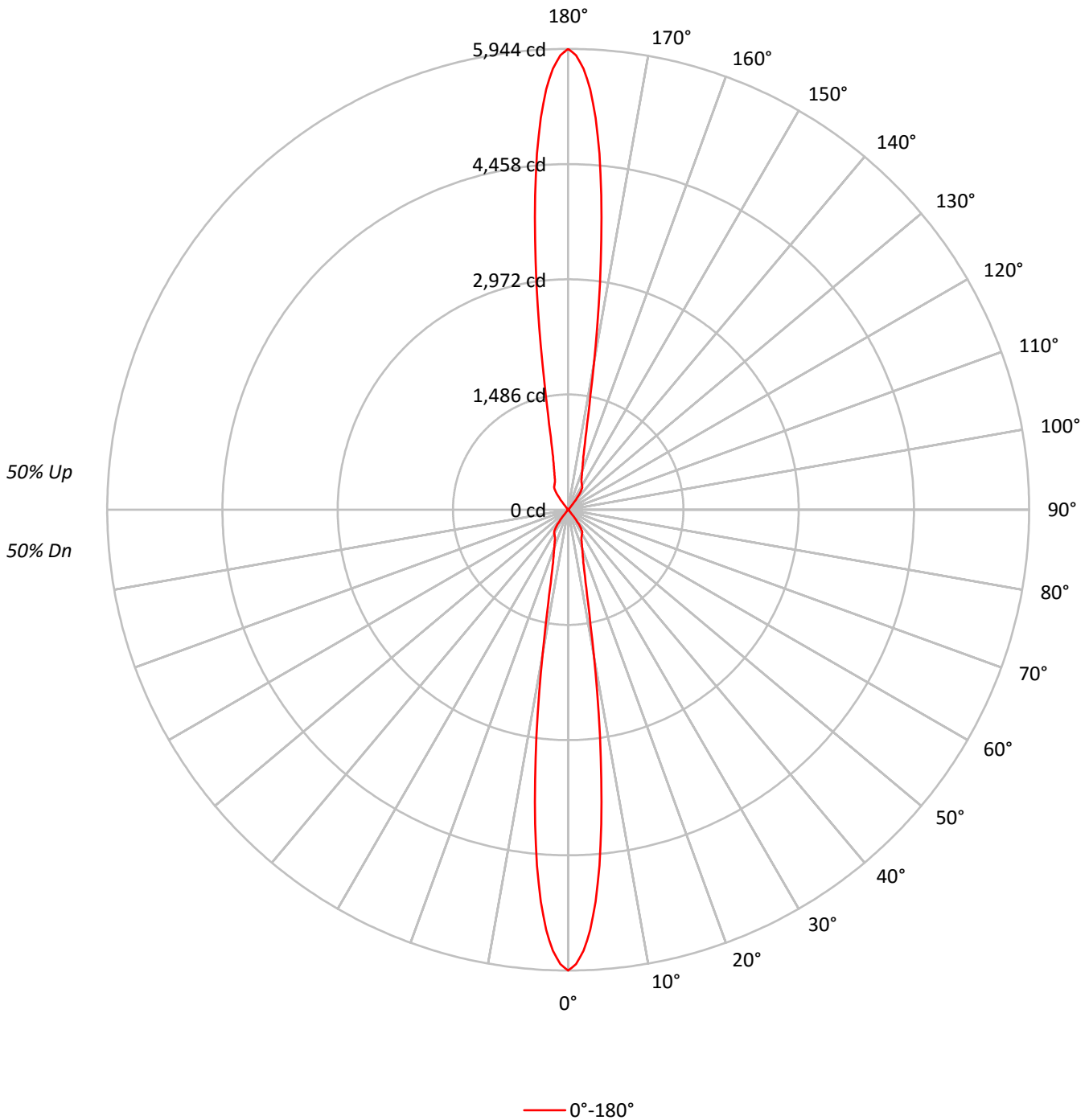
Lumens per Lamp: N/A
Luminaire Lumens: 1893.1 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Spacing Criteria (0/90/45): 0.27 / 0.27 / 0.27
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

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	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	101	97	95	92	93	90	88	86	77	76	74	65	64	63	54	54	53	48				
2	95	89	85	81	88	83	80	76	72	69	67	62	60	58	52	51	50	46				
3	89	82	77	73	83	77	72	69	67	64	62	58	56	54	50	49	48	44				
4	84	76	70	66	78	72	67	63	63	60	57	55	53	51	48	46	45	42				
5	79	71	65	60	74	67	62	58	59	56	53	53	50	48	46	44	43	40				
6	75	66	60	56	70	63	58	54	56	52	49	50	47	45	44	43	41	39				
7	71	62	56	52	67	59	54	50	53	49	47	48	45	43	43	41	40	37				
8	68	59	53	49	64	56	51	47	51	47	44	46	43	41	41	39	38	36				
9	65	56	50	46	61	53	48	45	48	45	42	44	41	39	40	38	37	35				
10	62	53	47	44	59	51	46	42	46	43	40	42	40	38	39	37	35	34				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	733154
5°	570684
10°	237684
15°	100497
20°	68978
25°	55051
30°	50875
35°	41620
40°	8759
45°	2006
50°	710
55°	581
60°	345
65°	204
70°	108
75°	143
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.4	18.3
10°-20°	242.8	12.8
20°-30°	191.3	10.1
30°-40°	150.6	8.0
40°-50°	12.2	0.6
50°-60°	2.4	0.1
60°-70°	0.6	0.0
70°-80°	0.3	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.3	0.0
110°-120°	0.6	0.0
120°-130°	2.4	0.1
130°-140°	12.2	0.6
140°-150°	150.6	8.0
150°-160°	191.3	10.1
160°-170°	242.8	12.8
170°-180°	346.4	18.3
0°-30°	780.5	41.2
0°-40°	931.1	49.2
0°-60°	945.6	50.0
0°-90°	946.6	50.0
90°-120°	0.9	0.0
90°-150°	166.1	8.8
90°-180°	947.0	50.0
0°-180°	1893.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5944	
5°	4609	346
15°	787	243
25°	404	191
35°	276	151
45°	12	12
55°	3	2
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	1	1
125°	3	2
135°	12	12
145°	276	151
155°	404	191
165°	787	243
175°	4609	346
180°	5944	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5943.9
1°	5862.1
2°	5692.1
3°	5428.6
4°	5068.0
5°	4609.1
6°	4079.3
7°	3506.9
8°	2945.2
9°	2379.9
10°	1897.7
11°	1512.8
12°	1233.7
13°	1036.0
14°	892.8
15°	787.0
16°	707.6
17°	649.5
18°	605.2
19°	563.0
20°	525.5
21°	494.4
22°	466.7
23°	442.3
24°	421.0
25°	404.5
26°	392.0
27°	382.5
28°	373.4
29°	365.3
30°	357.2
32.5°	336.9
35°	276.4
37.5°	164.9
40°	54.4
42.5°	16.2
45°	11.5
47.5°	8.1
50°	3.7
52.5°	3.4
55°	2.7
57.5°	2.0
60°	1.4
62.5°	0.7
65°	0.7



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.3
70°	0.3
72.5°	0.3
75°	0.3
77.5°	0.3
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.3
105°	0.3
107.5°	0.3
110°	0.3
112.5°	0.3
115°	0.7
117.5°	0.7
120°	1.4
122.5°	2.0
125°	2.7
127.5°	3.4
130°	3.7
132.5°	8.1
135°	11.5
137.5°	16.2
140°	54.4
142.5°	164.9
145°	276.4
147.5°	336.9
150°	357.2
151°	365.3
152°	373.4
153°	382.5
154°	392.0
155°	404.5
156°	421.0
157°	442.3
158°	466.7
159°	494.4
160°	525.5
161°	563.0



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CANDELA DISTRIBUTION (continued):

	0°
162°	605.2
163°	649.5
164°	707.6
165°	787.0
166°	892.8
167°	1036.0
168°	1233.7
169°	1512.8
170°	1897.7
171°	2379.9
172°	2945.2
173°	3506.9
174°	4079.3
175°	4609.1
176°	5068.0
177°	5428.6
178°	5692.1
179°	5862.1
180°	5943.9

(END OF REPORT)