

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: P222093

Luminaire Tested: **9004-W2-FL-LED3597-S-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222093
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-LED3597-S-BK-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, SPOT OPTIC, BLACK HOUSING.
Light Source: (1) 3500K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

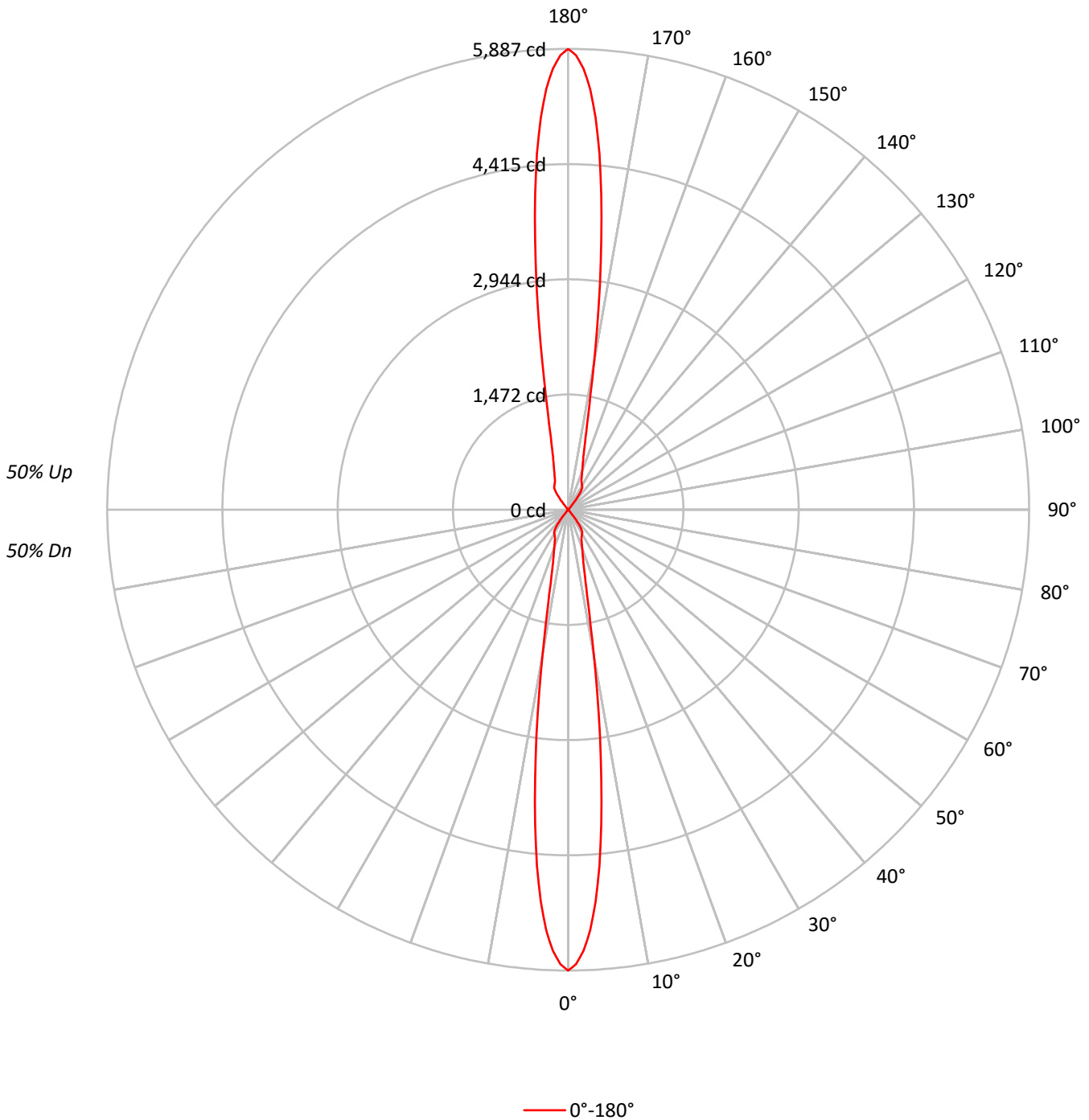
Lumens per Lamp: N/A
Luminaire Lumens: 1875.0 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Spacing Criteria (0/90/45): 0.27 / 0.27 / 0.27
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

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°	726160
5°	565248
10°	235417
15°	99540
20°	68309
25°	54520
30°	50391
35°	41228
40°	8679
45°	1989
50°	710
55°	581
60°	321
65°	204
70°	108
75°	143
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.1	18.3
10°-20°	240.4	12.8
20°-30°	189.5	10.1
30°-40°	149.2	8.0
40°-50°	12.1	0.6
50°-60°	2.3	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°	2.3	0.1
130°-140°	12.1	0.6
140°-150°	149.2	8.0
150°-160°	189.5	10.1
160°-170°	240.4	12.8
170°-180°	343.1	18.3
0°-30°	773.0	41.2
0°-40°	922.2	49.2
0°-60°	936.6	50.0
0°-90°	937.5	50.0
90°-120°	0.9	0.0
90°-150°	164.5	8.8
90°-180°	938.0	50.0
0°-180°	1875.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5887	
5°	4565	343
15°	780	240
25°	401	190
35°	274	149
45°	11	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°	11	12
145°	274	149
155°	401	190
165°	780	240
175°	4565	343
180°	5887	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5887.2
1°	5806.2
2°	5637.8
3°	5376.8
4°	5019.7
5°	4565.2
6°	4040.4
7°	3473.4
8°	2917.1
9°	2357.2
10°	1879.6
11°	1498.4
12°	1221.9
13°	1026.2
14°	884.2
15°	779.5
16°	700.8
17°	643.3
18°	599.4
19°	557.6
20°	520.4
21°	489.6
22°	462.2
23°	438.1
24°	417.0
25°	400.6
26°	388.2
27°	378.9
28°	369.8
29°	361.8
30°	353.8
32.5°	333.7
35°	273.8
37.5°	163.3
40°	53.9
42.5°	16.1
45°	11.4
47.5°	8.0
50°	3.7
52.5°	3.3
55°	2.7
57.5°	2.0
60°	1.3
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°	1.3
122.5°	2.0
125°	2.7
127.5°	3.3
130°	3.7
132.5°	8.0
135°	11.4
137.5°	16.1
140°	53.9
142.5°	163.3
145°	273.8
147.5°	333.7
150°	353.8
151°	361.8
152°	369.8
153°	378.9
154°	388.2
155°	400.6
156°	417.0
157°	438.1
158°	462.2
159°	489.6
160°	520.4
161°	557.6



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CATALOG NUMBER: 9004-W2-FL-LED3597-S-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	0°
162°	599.4
163°	643.3
164°	700.8
165°	779.5
166°	884.2
167°	1026.2
168°	1221.9
169°	1498.4
170°	1879.6
171°	2357.2
172°	2917.1
173°	3473.4
174°	4040.4
175°	4565.2
176°	5019.7
177°	5376.8
178°	5637.8
179°	5806.2
180°	5887.2

(END OF REPORT)