

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: P222095

Luminaire Tested: **9004-W2-FL-LED3597-S-BK-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222095
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-L3-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: 4485.4 lumens
Efficiency: N/A
Efficacy: 78.4 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

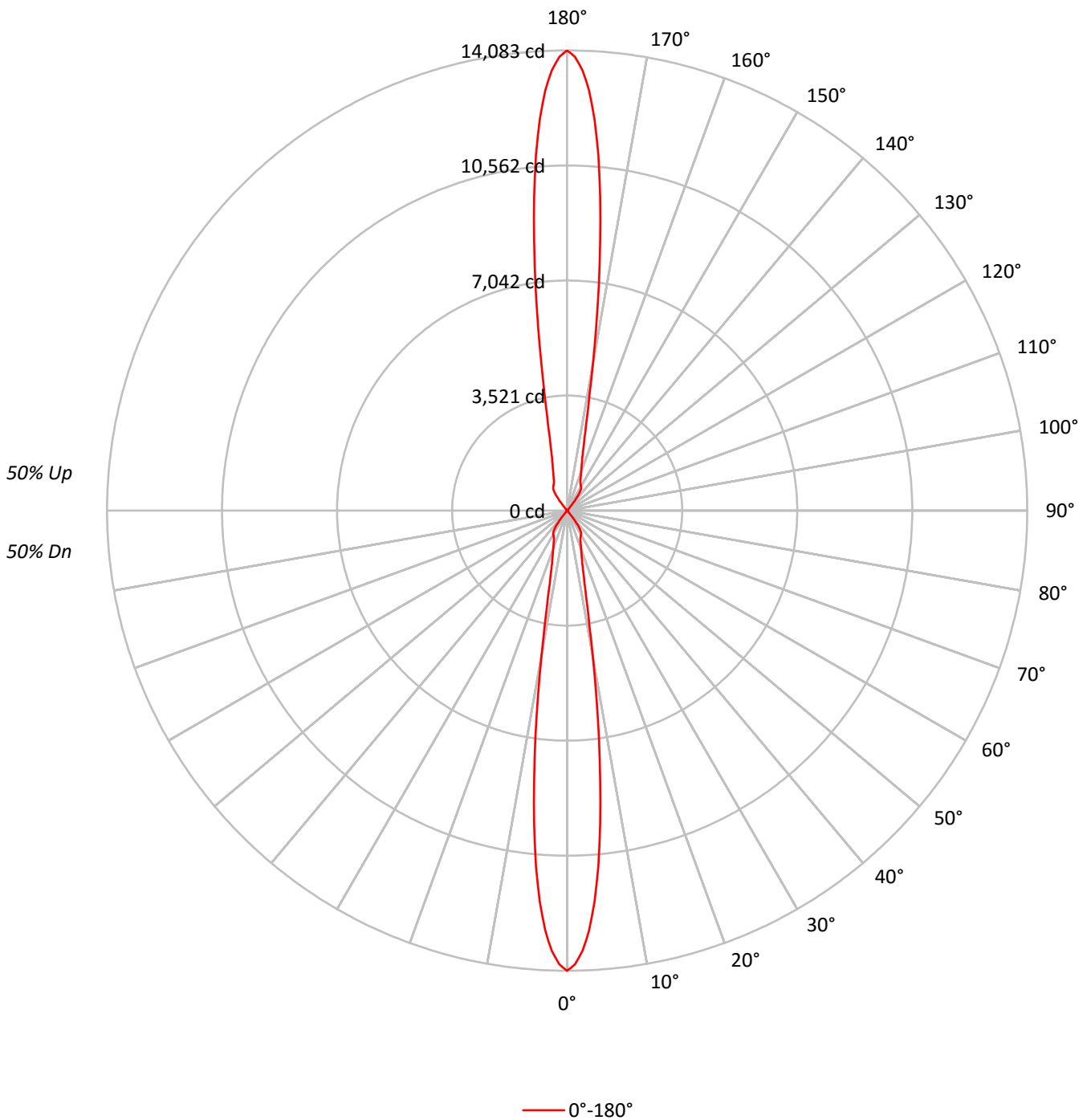
Input Watts (W): 57.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1737052
5°	1352129
10°	563142
15°	238103
20°	163421
25°	130422
30°	120522
35°	98613
40°	20755
45°	4745
50°	1689
55°	1376
60°	789
65°	467
70°	289
75°	381
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	820.7	18.3
10°-20°	575.1	12.8
20°-30°	453.3	10.1
30°-40°	356.9	8.0
40°-50°	28.8	0.6
50°-60°	5.6	0.1
60°-70°	1.5	0.0
70°-80°	0.7	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.7	0.0
110°-120°	1.5	0.0
120°-130°	5.6	0.1
130°-140°	28.8	0.6
140°-150°	356.9	8.0
150°-160°	453.3	10.1
160°-170°	575.1	12.8
170°-180°	820.7	18.3
0°-30°	1849.2	41.2
0°-40°	2206.1	49.2
0°-60°	2240.5	50.0
0°-90°	2242.7	50.0
90°-120°	2.2	0.0
90°-150°	393.5	8.8
90°-180°	2243.0	50.0
0°-180°	4485.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14083	
5°	10920	821
15°	1865	575
25°	958	453
35°	655	357
45°	27	29
55°	6	6
65°	2	1
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	2	1
125°	6	6
135°	27	29
145°	655	357
155°	958	453
165°	1865	575
175°	10920	821
180°	14083	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	14082.8
1°	13889.1
2°	13486.3
3°	12861.9
4°	12007.6
5°	10920.4
6°	9665.0
7°	8308.8
8°	6978.2
9°	5638.7
10°	4496.2
11°	3584.3
12°	2923.0
13°	2454.7
14°	2115.2
15°	1864.6
16°	1676.5
17°	1538.8
18°	1433.9
19°	1333.8
20°	1245.0
21°	1171.3
22°	1105.6
23°	1048.0
24°	997.6
25°	958.3
26°	928.7
27°	906.3
28°	884.7
29°	865.5
30°	846.2
32.5°	798.2
35°	654.9
37.5°	390.7
40°	128.9
42.5°	38.4
45°	27.2
47.5°	19.2
50°	8.8
52.5°	8.0
55°	6.4
57.5°	4.8
60°	3.2
62.5°	1.6
65°	1.6



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.8
70°	0.8
72.5°	0.8
75°	0.8
77.5°	0.8
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°	0.8
105°	0.8
107.5°	0.8
110°	0.8
112.5°	0.8
115°	1.6
117.5°	1.6
120°	3.2
122.5°	4.8
125°	6.4
127.5°	8.0
130°	8.8
132.5°	19.2
135°	27.2
137.5°	38.4
140°	128.9
142.5°	390.7
145°	654.9
147.5°	798.2
150°	846.2
151°	865.5
152°	884.7
153°	906.3
154°	928.7
155°	958.3
156°	997.6
157°	1048.0
158°	1105.6
159°	1171.3
160°	1245.0
161°	1333.8



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CANDELA DISTRIBUTION (continued):

	0°
162°	1433.9
163°	1538.8
164°	1676.5
165°	1864.6
166°	2115.2
167°	2454.7
168°	2923.0
169°	3584.3
170°	4496.2
171°	5638.7
172°	6978.2
173°	8308.8
174°	9665.0
175°	10920.4
176°	12007.6
177°	12861.9
178°	13486.3
179°	13889.1
180°	14082.8

(END OF REPORT)