

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: P222074

Luminaire Tested: **9004-W2-FL-LED3590-S-WT-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222074
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-WT-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, SPOT OPTIC, WHITE HOUSING.
Light Source: (1) 3500K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4528.6 lumens
Efficiency: N/A
Efficacy: 79.2 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

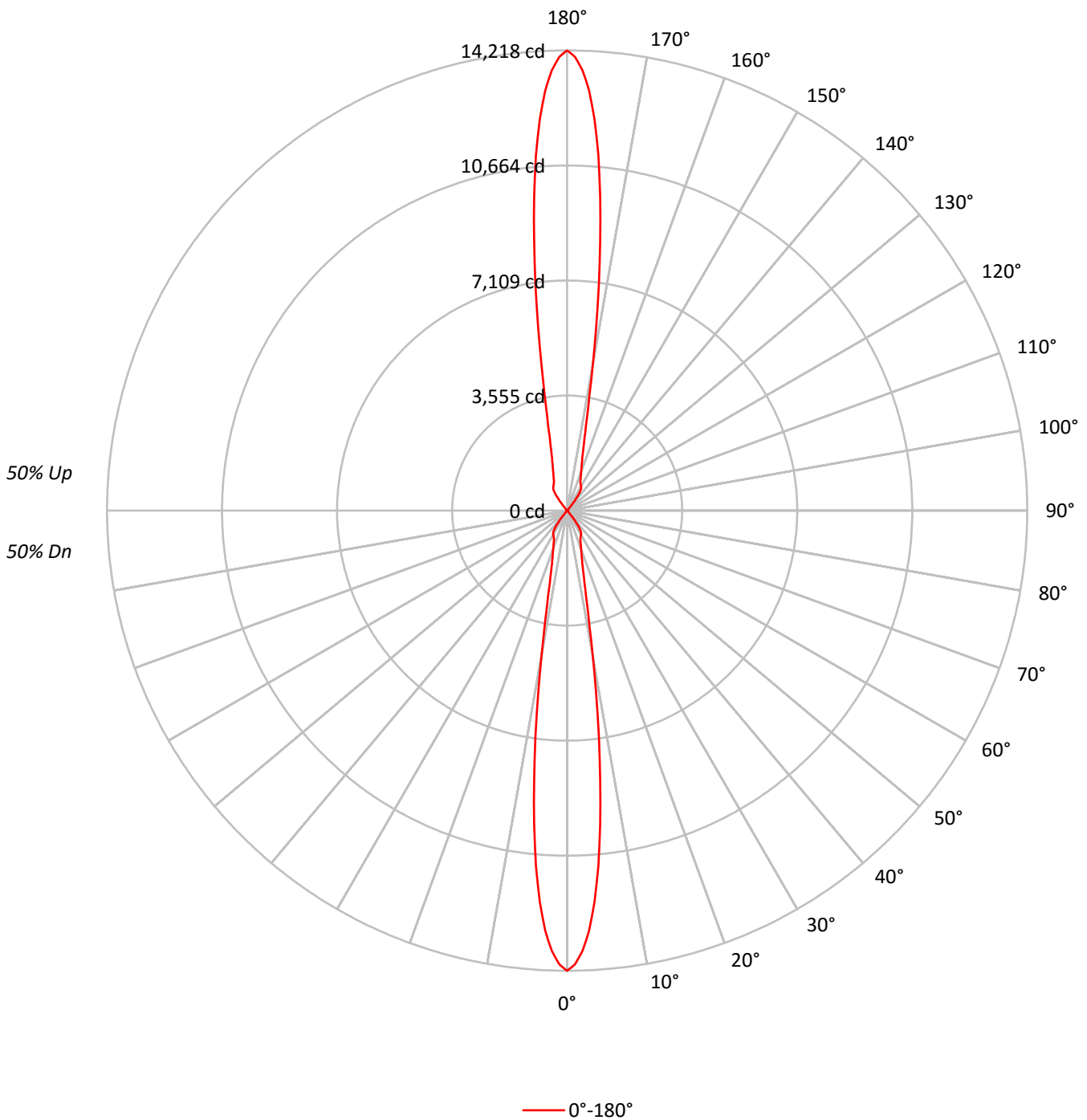
Input Watts (W): 57.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1753790
5°	1365154
10°	568578
15°	240402
20°	164983
25°	131687
30°	121690
35°	99562
40°	20948
45°	4797
50°	1708
55°	1398
60°	789
65°	467
70°	289
75°	381
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	828.6	18.3
10°-20°	580.7	12.8
20°-30°	457.7	10.1
30°-40°	360.3	8.0
40°-50°	29.1	0.6
50°-60°	5.7	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°	5.7	0.1
130°-140°	29.1	0.6
140°-150°	360.3	8.0
150°-160°	457.7	10.1
160°-170°	580.7	12.8
170°-180°	828.6	18.3
0°-30°	1867.0	41.2
0°-40°	2227.3	49.2
0°-60°	2262.1	50.0
0°-90°	2264.3	50.0
90°-120°	2.2	0.0
90°-150°	397.3	8.8
90°-180°	2264.0	50.0
0°-180°	4528.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14218	
5°	11026	829
15°	1883	581
25°	968	458
35°	661	360
45°	28	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°	28	29
145°	661	360
155°	968	458
165°	1883	581
175°	11026	829
180°	14218	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	14218.5
1°	14022.8
2°	13616.3
3°	12985.8
4°	12123.3
5°	11025.6
6°	9758.1
7°	8388.8
8°	7045.4
9°	5693.0
10°	4539.6
11°	3618.9
12°	2951.2
13°	2478.3
14°	2135.6
15°	1882.6
16°	1692.6
17°	1553.6
18°	1447.7
19°	1346.7
20°	1256.9
21°	1182.6
22°	1116.3
23°	1058.1
24°	1007.2
25°	967.6
26°	937.7
27°	915.0
28°	893.2
29°	873.8
30°	854.4
32.5°	805.9
35°	661.2
37.5°	394.5
40°	130.1
42.5°	38.8
45°	27.5
47.5°	19.4
50°	8.9
52.5°	8.1
55°	6.5
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°	6.5
127.5°	8.1
130°	8.9
132.5°	19.4
135°	27.5
137.5°	38.8
140°	130.1
142.5°	394.5
145°	661.2
147.5°	805.9
150°	854.4
151°	873.8
152°	893.2
153°	915.0
154°	937.7
155°	967.6
156°	1007.2
157°	1058.1
158°	1116.3
159°	1182.6
160°	1256.9
161°	1346.7



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CANDELA DISTRIBUTION (continued):

	0°
162°	1447.7
163°	1553.6
164°	1692.6
165°	1882.6
166°	2135.6
167°	2478.3
168°	2951.2
169°	3618.9
170°	4539.6
171°	5693.0
172°	7045.4
173°	8388.8
174°	9758.1
175°	11025.6
176°	12123.3
177°	12985.8
178°	13616.3
179°	14022.8
180°	14218.5

(END OF REPORT)