

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: P221831

Luminaire Tested: **9004-W2-[RW, RI]-LED3590-S-BK-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221831
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29491)
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-S-BK-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED 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: 4012.3 lumens
Efficiency: N/A
Efficacy: 70.4 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

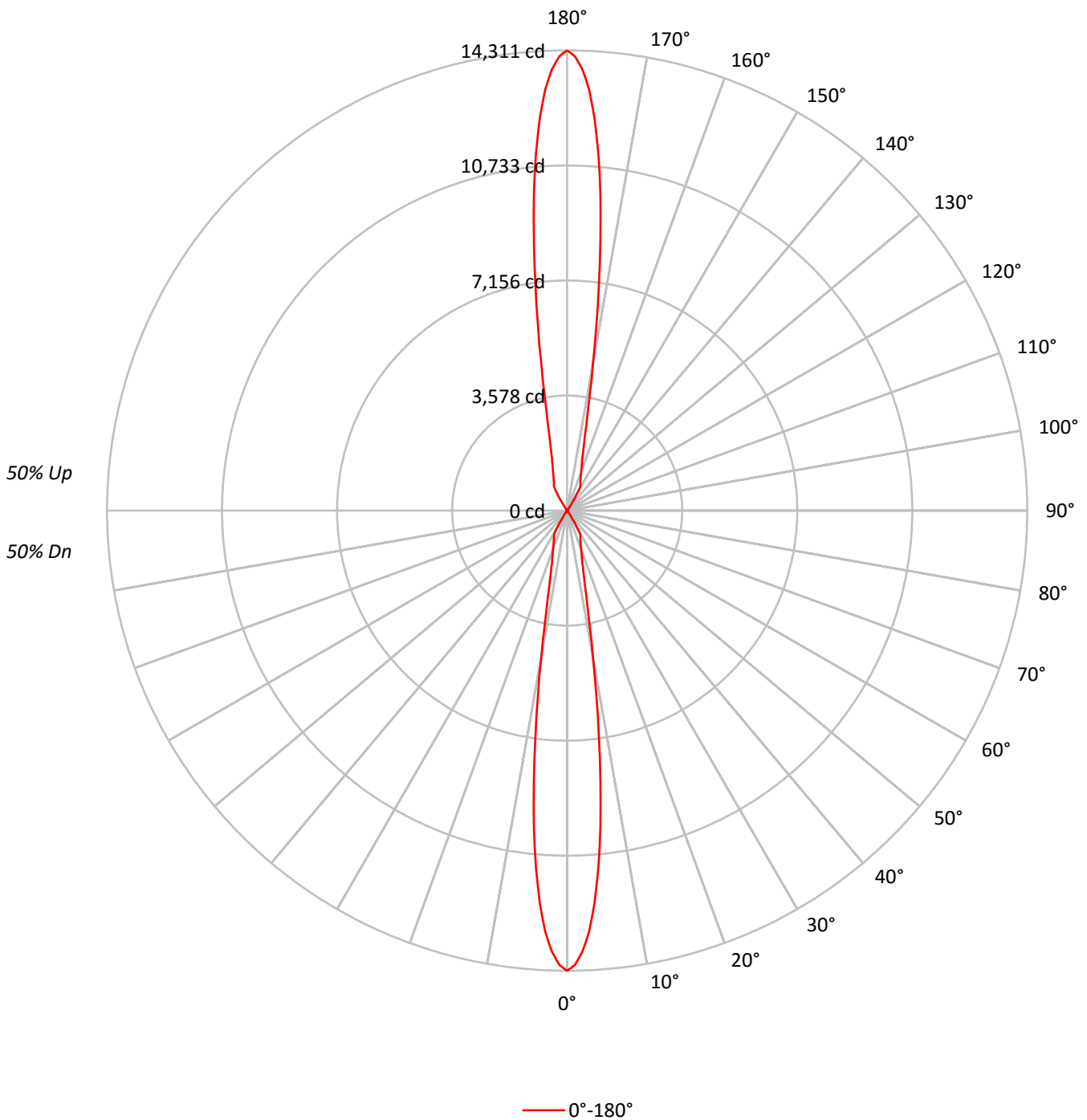
Input Watts (W): 57
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	98	95	93	93	91	88	86	78	76	75	65	65	64	54	54	53	48
2	95	90	86	82	88	84	80	77	73	70	68	62	61	59	53	52	51	47
3	90	83	78	74	83	78	74	70	68	65	63	59	57	56	51	50	49	45
4	85	77	72	68	79	73	68	64	64	61	58	57	54	53	49	48	47	44
5	81	72	67	62	75	68	63	60	61	57	55	54	52	50	48	46	45	42
6	77	68	62	58	72	65	60	56	58	54	52	52	49	48	46	45	43	41
7	73	64	58	54	69	61	56	53	55	52	49	50	47	45	45	43	42	40
8	70	61	55	51	66	58	53	50	53	49	47	48	46	44	44	42	41	39
9	67	58	52	49	63	56	51	47	51	47	45	47	44	42	42	41	39	38
10	64	55	50	47	61	53	48	45	49	45	43	45	42	41	41	40	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1765249
5°	1379158
10°	580927
15°	246187
20°	166689
25°	132341
30°	97976
35°	8884
40°	3253
45°	994
50°	768
55°	860
60°	592
65°	467
70°	289
75°	381
80°	568
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	838.5	20.9
10°-20°	592.5	14.8
20°-30°	452.4	11.3
30°-40°	110.9	2.8
40°-50°	6.0	0.1
50°-60°	3.2	0.1
60°-70°	1.6	0.0
70°-80°	0.8	0.0
80°-90°	0.3	0.0
90°-100°	0.5	0.0
100°-110°	0.8	0.0
110°-120°	1.6	0.0
120°-130°	3.2	0.1
130°-140°	6.0	0.1
140°-150°	110.9	2.8
150°-160°	452.4	11.3
160°-170°	592.5	14.8
170°-180°	838.5	20.9
0°-30°	1883.3	46.9
0°-40°	1994.2	49.7
0°-60°	2003.4	49.9
0°-90°	2006.2	50.0
90°-120°	3.0	0.1
90°-150°	123.0	3.1
90°-180°	2006.0	50.0
0°-180°	4012.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14311	
5°	11139	838
15°	1928	592
25°	972	452
35°	59	111
45°	6	6
55°	4	3
65°	2	2
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	2	2
125°	4	3
135°	6	6
145°	59	111
155°	972	452
165°	1928	592
175°	11139	838
180°	14311	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	14311.4
1°	14127.9
2°	13723.8
3°	13103.8
4°	12235.6
5°	11138.7
6°	9877.7
7°	8492.3
8°	7097.1
9°	5819.9
10°	4638.2
11°	3702.1
12°	3016.7
13°	2531.7
14°	2186.5
15°	1927.9
16°	1729.0
17°	1584.3
18°	1469.5
19°	1362.0
20°	1269.9
22.5°	1095.3
25°	972.4
26°	939.3
27°	911.8
28°	884.3
29°	811.6
30°	687.9
32.5°	309.6
35°	59.0
37.5°	32.3
40°	20.2
42.5°	8.9
45°	5.7
47.5°	4.8
50°	4.0
52.5°	4.0
55°	4.0
57.5°	3.2
60°	2.4
62.5°	2.4
65°	1.6
67.5°	0.8
70°	0.8
72.5°	0.8



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CANDELA DISTRIBUTION (continued):

	0°
75°	0.8
77.5°	0.8
80°	0.8
82.5°	0.8
85°	0.0
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.8
100°	0.8
102.5°	0.8
105°	0.8
107.5°	0.8
110°	0.8
112.5°	0.8
115°	1.6
117.5°	2.4
120°	2.4
122.5°	3.2
125°	4.0
127.5°	4.0
130°	4.0
132.5°	4.8
135°	5.7
137.5°	8.9
140°	20.2
142.5°	32.3
145°	59.0
147.5°	309.6
150°	687.9
151°	811.6
152°	884.3
153°	911.8
154°	939.3
155°	972.4
157.5°	1095.3
160°	1269.9
161°	1362.0
162°	1469.5
163°	1584.3
164°	1729.0
165°	1927.9
166°	2186.5
167°	2531.7



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CANDELA DISTRIBUTION (continued):

	0°
168°	3016.7
169°	3702.1
170°	4638.2
171°	5819.9
172°	7097.1
173°	8492.3
174°	9877.7
175°	11138.7
176°	12235.6
177°	13103.8
178°	13723.8
179°	14127.9
180°	14311.4

(END OF REPORT)