

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: P221338

Luminaire Tested: **9002-W2-FL-LED3590-S-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221338
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29417)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9002-W2-FL-LED3590-S-WT-L1-UNV
Description: LUMIERE LANTERRA 9002 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: 826.2 lumens
Efficiency: N/A
Efficacy: 41.3 lumens/watt
Spacing Criteria (0/90/45): 0.25 / 0.25 / 0.25
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: General Diffuse

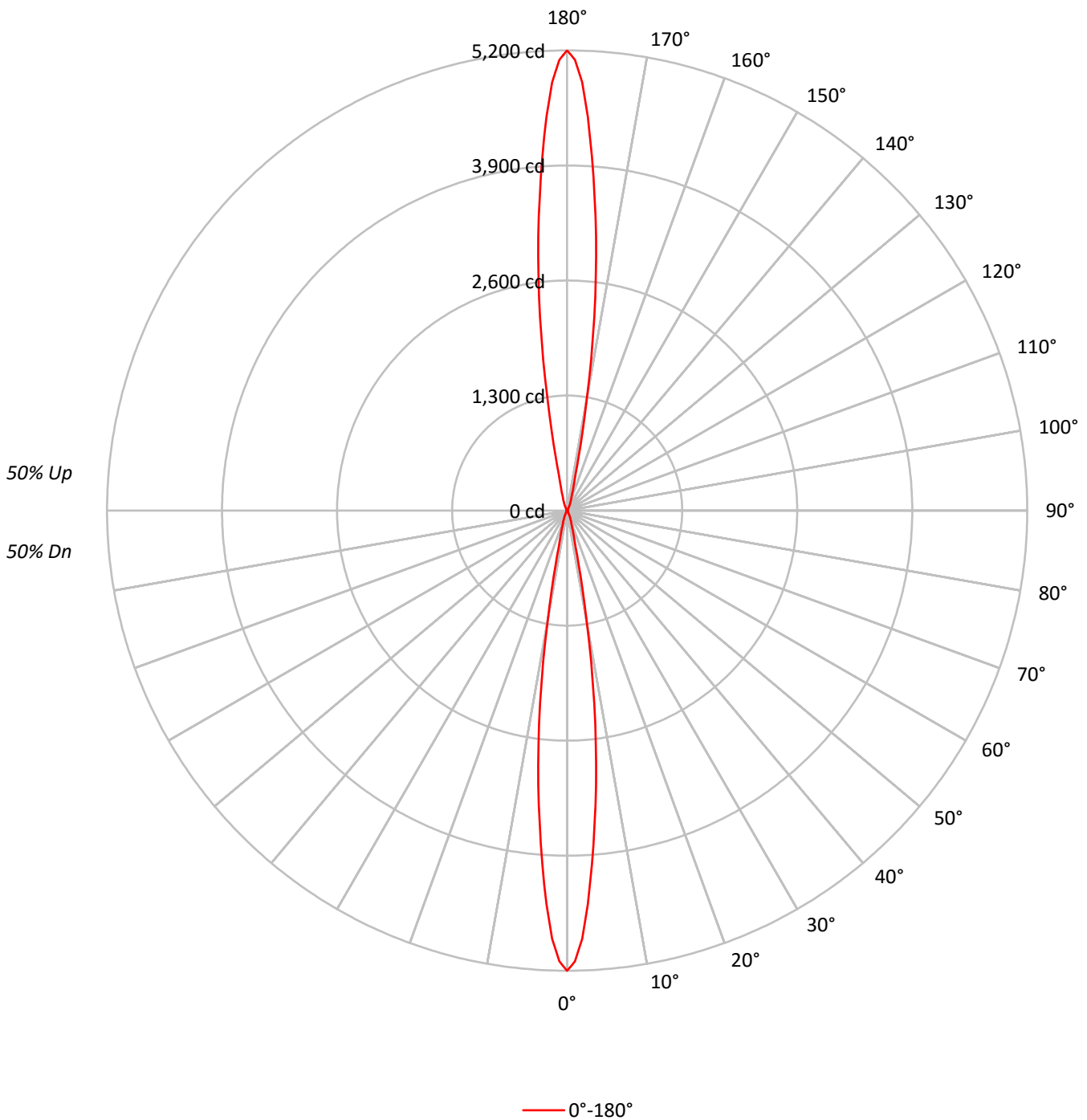
Input Watts (W): 20
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	94	91	89	87	78	77	75	66	65	64	55	54	54	49
2	96	91	87	83	89	85	81	78	73	71	69	63	62	60	53	53	52	48
3	91	84	79	76	84	79	75	72	70	67	64	61	59	57	52	51	50	47
4	86	79	74	70	81	75	70	67	66	63	61	58	56	55	51	50	49	46
5	82	75	69	65	77	71	66	63	63	60	58	57	54	53	50	49	48	45
6	79	71	65	61	74	67	63	59	61	58	55	55	53	51	49	48	47	45
7	76	67	62	58	71	64	60	57	59	55	53	53	51	49	48	47	46	44
8	73	65	59	56	69	62	57	54	57	54	51	52	50	48	48	46	45	43
9	70	62	57	54	67	60	55	52	55	52	50	51	49	47	47	45	44	43
10	68	60	55	52	65	58	54	51	54	51	48	50	48	46	46	45	44	42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2565475
5°	1763041
10°	642771
15°	132242
20°	63845
25°	31683
30°	11850
35°	6264
40°	5024
45°	3628
50°	3301
55°	3011
60°	3454
65°	4086
70°	3751
75°	3241
80°	2557
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.2	32.3
10°-20°	97.9	11.8
20°-30°	27.9	3.4
30°-40°	7.3	0.9
40°-50°	4.3	0.5
50°-60°	3.4	0.4
60°-70°	3.1	0.4
70°-80°	1.8	0.2
80°-90°	0.1	0.0
90°-100°	0.1	0.0
100°-110°	1.8	0.2
110°-120°	3.1	0.4
120°-130°	3.4	0.4
130°-140°	4.3	0.5
140°-150°	7.3	0.9
150°-160°	27.9	3.4
160°-170°	97.9	11.8
170°-180°	267.2	32.3
0°-30°	393.0	47.6
0°-40°	400.3	48.4
0°-60°	408.0	49.4
0°-90°	413.1	50.0
90°-120°	5.1	0.6
90°-150°	20.1	2.4
90°-180°	413.0	50.0
0°-180°	826.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5200	
5°	3560	267
15°	259	98
25°	58	28
35°	10	7
45°	5	4
55°	4	3
65°	4	3
75°	2	2
85°	0	0
90°	0	0
95°	0	0
105°	2	2
115°	4	3
125°	4	3
135°	5	4
145°	10	7
155°	58	28
165°	259	98
175°	3560	267
180°	5200	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5199.8
1°	5093.8
2°	4841.9
3°	4455.4
4°	4008.0
5°	3559.8
6°	3116.8
7°	2666.8
8°	2197.7
9°	1727.8
10°	1283.0
11°	899.9
12°	619.4
13°	436.1
14°	325.7
15°	258.9
17.5°	168.5
20°	121.6
22.5°	89.5
25°	58.2
27.5°	34.7
30°	20.8
32.5°	13.9
35°	10.4
37.5°	8.7
40°	7.8
42.5°	6.1
45°	5.2
47.5°	5.2
50°	4.3
52.5°	4.3
55°	3.5
57.5°	3.5
60°	3.5
62.5°	3.5
65°	3.5
67.5°	2.6
70°	2.6
72.5°	2.6
75°	1.7
77.5°	0.9
80°	0.9
82.5°	0.0
85°	0.0
87.5°	0.0



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CANDELA DISTRIBUTION (continued):

	0°
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.9
102.5°	0.9
105°	1.7
107.5°	2.6
110°	2.6
112.5°	2.6
115°	3.5
117.5°	3.5
120°	3.5
122.5°	3.5
125°	3.5
127.5°	4.3
130°	4.3
132.5°	5.2
135°	5.2
137.5°	6.1
140°	7.8
142.5°	8.7
145°	10.4
147.5°	13.9
150°	20.8
152.5°	34.7
155°	58.2
157.5°	89.5
160°	121.6
162.5°	168.5
165°	258.9
166°	325.7
167°	436.1
168°	619.4
169°	899.9
170°	1283.0
171°	1727.8
172°	2197.7
173°	2666.8
174°	3116.8
175°	3559.8
176°	4008.0
177°	4455.4
178°	4841.9
179°	5093.8



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CANDELA DISTRIBUTION (continued):

180° | $\frac{0^\circ}{5199.8}$

(END OF REPORT)