

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: P221336

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221336
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29418)
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-M-WT-L1-UNV
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, FLUSH LENS, MEDIUM FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 3500K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1763.5 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.36
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: General Diffuse

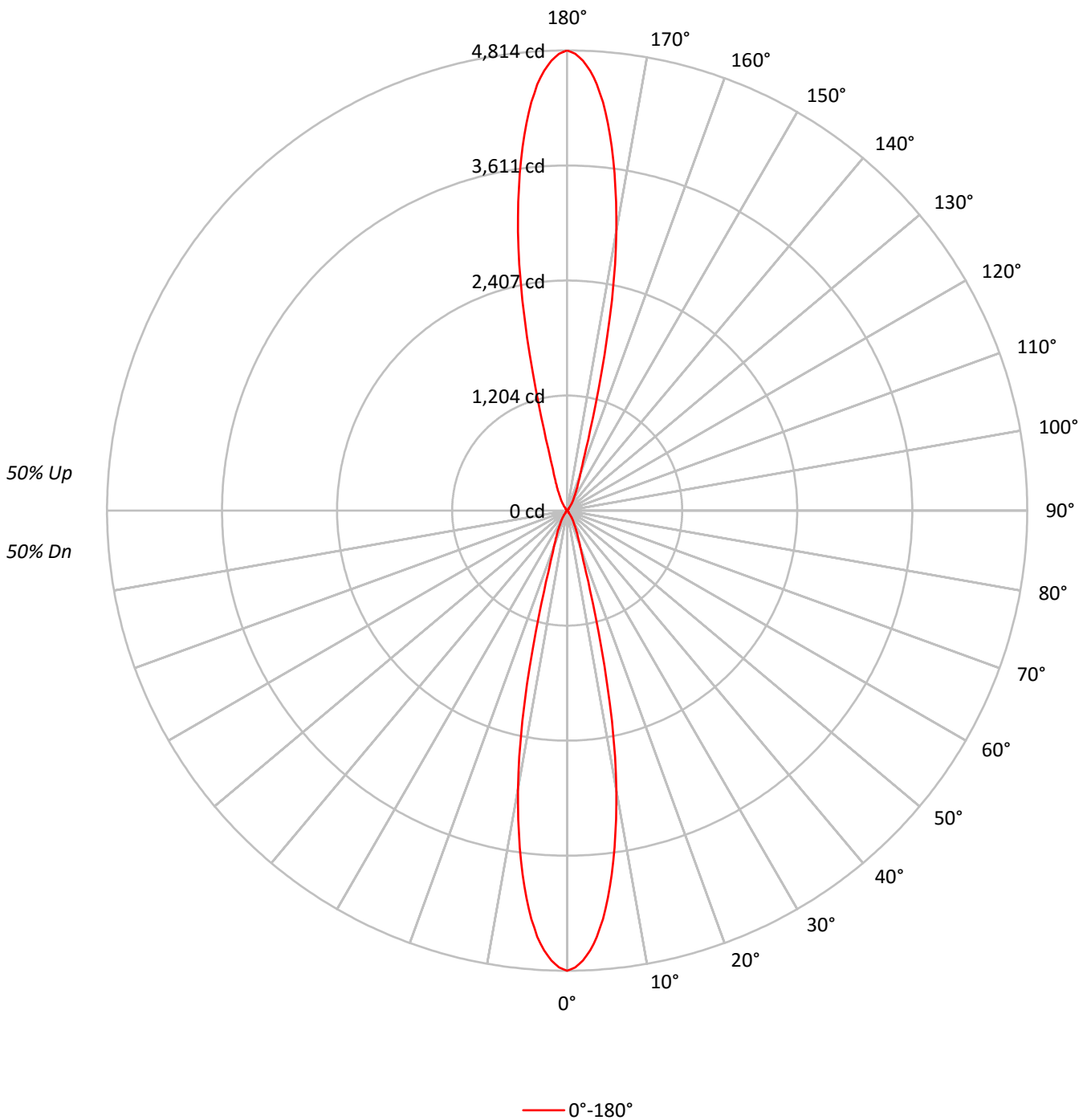
Input Watts (W): 20
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	95	92	93	91	88	86	77	76	75	65	64	64	54	54	53	48				
2	95	90	85	82	88	84	80	77	72	70	68	62	61	59	52	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	67	79	73	68	64	64	61	58	57	54	53	49	48	47	44				
5	81	72	67	62	75	68	64	60	61	58	55	54	52	50	48	46	45	42				
6	77	68	62	58	72	65	60	56	58	55	52	52	50	48	46	45	44	41				
7	73	64	59	55	69	61	56	53	56	52	49	50	48	46	45	44	42	40				
8	70	61	56	52	66	58	54	50	53	50	47	49	46	44	44	42	41	39				
9	67	58	53	49	64	56	51	48	51	48	45	47	44	43	43	41	40	38				
10	65	56	51	47	61	54	49	46	49	46	44	46	43	41	42	40	39	37				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2375178
5°	2124386
10°	1483133
15°	585256
20°	210280
25°	118676
30°	67795
35°	36620
40°	14556
45°	9699
50°	6678
55°	5935
60°	6019
65°	7121
70°	7501
75°	8197
80°	4830
85°	5095



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.3	20.8
10°-20°	344.2	19.5
20°-30°	103.9	5.9
30°-40°	38.4	2.2
40°-50°	11.1	0.6
50°-60°	6.5	0.4
60°-70°	5.9	0.3
70°-80°	4.1	0.2
80°-90°	1.2	0.1
90°-100°	1.2	0.1
100°-110°	4.1	0.2
110°-120°	5.9	0.3
120°-130°	6.5	0.4
130°-140°	11.1	0.6
140°-150°	38.4	2.2
150°-160°	103.9	5.9
160°-170°	344.2	19.5
170°-180°	366.3	20.8
0°-30°	814.5	46.2
0°-40°	852.9	48.4
0°-60°	870.5	49.4
0°-90°	881.7	50.0
90°-120°	11.2	0.6
90°-150°	67.3	3.8
90°-180°	882.0	50.0
0°-180°	1763.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4814	
5°	4289	366
15°	1146	344
25°	218	104
35°	61	38
45°	14	11
55°	7	6
65°	6	6
75°	4	4
85°	1	1
90°	0	0
95°	1	1
105°	4	4
115°	6	6
125°	7	6
135°	14	11
145°	61	38
155°	218	104
165°	1146	344
175°	4289	366
180°	4814	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4814.1
1°	4780.2
2°	4709.9
3°	4608.2
4°	4470.1
5°	4289.4
6°	4074.0
7°	3834.3
8°	3562.4
9°	3271.4
10°	2960.4
11°	2621.6
12°	2251.6
13°	1864.1
14°	1483.7
15°	1145.8
16°	875.6
17°	678.4
18°	548.1
19°	461.3
20°	400.5
22.5°	294.5
25°	218.0
26°	192.8
27°	171.1
28°	152.0
29°	134.6
30°	119.0
32.5°	86.9
35°	60.8
37.5°	33.9
40°	22.6
42.5°	17.4
45°	13.9
47.5°	11.3
50°	8.7
52.5°	7.8
55°	6.9
57.5°	6.9
60°	6.1
62.5°	6.1
65°	6.1
67.5°	6.1
70°	5.2
72.5°	4.3



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CANDELA DISTRIBUTION (continued):

	0°
75°	4.3
77.5°	3.5
80°	1.7
82.5°	1.7
85°	0.9
87.5°	0.9
90°	0.0
92.5°	0.9
95°	0.9
97.5°	1.7
100°	1.7
102.5°	3.5
105°	4.3
107.5°	4.3
110°	5.2
112.5°	6.1
115°	6.1
117.5°	6.1
120°	6.1
122.5°	6.9
125°	6.9
127.5°	7.8
130°	8.7
132.5°	11.3
135°	13.9
137.5°	17.4
140°	22.6
142.5°	33.9
145°	60.8
147.5°	86.9
150°	119.0
151°	134.6
152°	152.0
153°	171.1
154°	192.8
155°	218.0
157.5°	294.5
160°	400.5
161°	461.3
162°	548.1
163°	678.4
164°	875.6
165°	1145.8
166°	1483.7
167°	1864.1



TEST NUMBER: P221336

CATALOG NUMBER: 9002-W2-FL-LED3590-M-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

	0°
168°	2251.6
169°	2621.6
170°	2960.4
171°	3271.4
172°	3562.4
173°	3834.3
174°	4074.0
175°	4289.4
176°	4470.1
177°	4608.2
178°	4709.9
179°	4780.2
180°	4814.1

(END OF REPORT)