

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: P221250

Luminaire Tested: **9002-W2-[RW, RI]-LED3590-F-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221250
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29411)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9002-W2-[RW, RI]-LED3590-F-WT-L1-UNV
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, RECESSED LENS, FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 3500K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1808.2 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Spacing Criteria (0/90/45): 0.66 / 0.66 / 0.63
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: General Diffuse

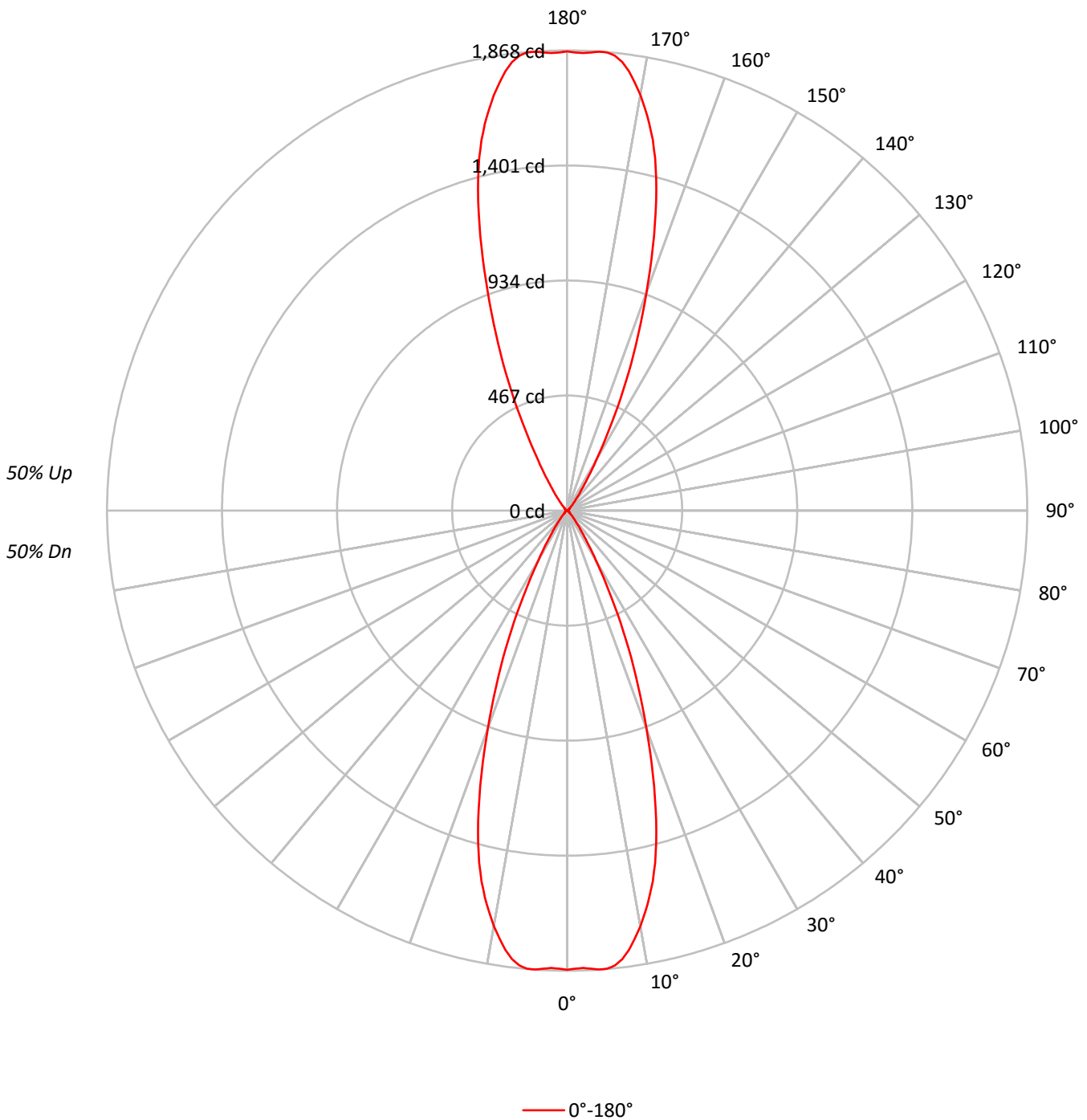
Input Watts (W): 20
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P221250

CATALOG NUMBER: 9002-W2-[RW, RI]-LED3590-F-WT-L1-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P221250

CATALOG NUMBER: 9002-W2-[RW, RI]-LED3590-F-WT-L1-UNV

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	100	97	94	92	93	90	88	85	77	75	74	65	64	63	54	53	52	47
2	94	89	84	80	87	82	79	75	71	69	66	61	59	57	51	50	49	45
3	88	81	76	71	82	76	71	68	66	63	60	57	55	53	49	47	46	43
4	83	75	69	64	77	70	65	61	62	58	55	54	51	49	47	45	44	40
5	78	69	63	59	73	65	60	56	58	54	51	51	48	46	45	43	41	39
6	74	65	58	54	69	61	56	52	55	51	48	48	46	43	43	41	39	37
7	70	60	54	50	66	57	52	48	52	47	44	46	43	41	41	39	37	35
8	66	57	51	46	62	54	49	45	49	45	42	44	41	39	39	37	36	34
9	63	53	47	43	59	51	46	42	46	42	39	42	39	37	38	36	34	32
10	60	50	45	41	57	48	43	40	44	40	37	40	37	35	36	34	33	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	919709
5°	924510
10°	857746
15°	713923
20°	493488
25°	292715
30°	132627
35°	59146
40°	26857
45°	13955
50°	9364
55°	8946
60°	8585
65°	8055
70°	8800
75°	9913
80°	9944
85°	9624



TEST NUMBER: P221250

CATALOG NUMBER: 9002-W2-[RW, RI]-LED3590-F-WT-L1-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.3	9.6
10°-20°	376.3	20.8
20°-30°	245.9	13.6
30°-40°	68.0	3.8
40°-50°	17.2	1.0
50°-60°	9.1	0.5
60°-70°	7.2	0.4
70°-80°	5.1	0.3
80°-90°	1.9	0.1
90°-100°	1.9	0.1
100°-110°	5.1	0.3
110°-120°	7.2	0.4
120°-130°	9.1	0.5
130°-140°	17.2	1.0
140°-150°	68.0	3.8
150°-160°	245.9	13.6
160°-170°	376.3	20.8
170°-180°	173.3	9.6
0°-30°	795.5	44.0
0°-40°	863.5	47.8
0°-60°	889.9	49.2
0°-90°	904.1	50.0
90°-120°	14.2	0.8
90°-150°	108.6	6.0
90°-180°	904.0	50.0
0°-180°	1808.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1864	
5°	1867	173
15°	1398	376
25°	538	246
35°	98	68
45°	20	17
55°	10	9
65°	7	7
75°	5	5
85°	2	2
90°	0	0
95°	2	2
105°	5	5
115°	7	7
125°	10	9
135°	20	17
145°	98	68
155°	538	246
165°	1398	376
175°	1867	173
180°	1864	



TEST NUMBER: P221250

CATALOG NUMBER: 9002-W2-[RW, RI]-LED3590-F-WT-L1-UNV

CANDELA DISTRIBUTION (FULL):

0°	
0°	1864.1
1°	1859.8
2°	1858.1
3°	1862.4
4°	1867.6
5°	1866.7
6°	1856.3
7°	1834.6
8°	1800.7
9°	1758.2
10°	1712.1
11°	1660.9
12°	1605.3
13°	1544.5
14°	1475.0
15°	1397.7
16°	1310.8
17°	1219.6
18°	1125.8
19°	1032.8
20°	939.9
22.5°	727.9
25°	537.7
26°	467.3
27°	397.0
28°	334.4
29°	278.0
30°	232.8
32.5°	148.5
35°	98.2
37.5°	63.4
40°	41.7
42.5°	28.7
45°	20.0
47.5°	14.8
50°	12.2
52.5°	10.4
55°	10.4
57.5°	9.6
60°	8.7
62.5°	7.8
65°	6.9
67.5°	6.9
70°	6.1
72.5°	5.2



TEST NUMBER: P221250

CATALOG NUMBER: 9002-W2-[RW, RI]-LED3590-F-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

	0°
75°	5.2
77.5°	4.3
80°	3.5
82.5°	2.6
85°	1.7
87.5°	0.9
90°	0.0
92.5°	0.9
95°	1.7
97.5°	2.6
100°	3.5
102.5°	4.3
105°	5.2
107.5°	5.2
110°	6.1
112.5°	6.9
115°	6.9
117.5°	7.8
120°	8.7
122.5°	9.6
125°	10.4
127.5°	10.4
130°	12.2
132.5°	14.8
135°	20.0
137.5°	28.7
140°	41.7
142.5°	63.4
145°	98.2
147.5°	148.5
150°	232.8
151°	278.0
152°	334.4
153°	397.0
154°	467.3
155°	537.7
157.5°	727.9
160°	939.9
161°	1032.8
162°	1125.8
163°	1219.6
164°	1310.8
165°	1397.7
166°	1475.0
167°	1544.5



TEST NUMBER: P221250

CATALOG NUMBER: 9002-W2-[RW, RI]-LED3590-F-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

	0°
168°	1605.3
169°	1660.9
170°	1712.1
171°	1758.2
172°	1800.7
173°	1834.6
174°	1856.3
175°	1866.7
176°	1867.6
177°	1862.4
178°	1858.1
179°	1859.8
180°	1864.1

(END OF REPORT)