

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: P221252

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221252
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29410)
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-M-WT-L1-UNV
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, RECESSED 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: 1710.7 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.37
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: General Diffuse

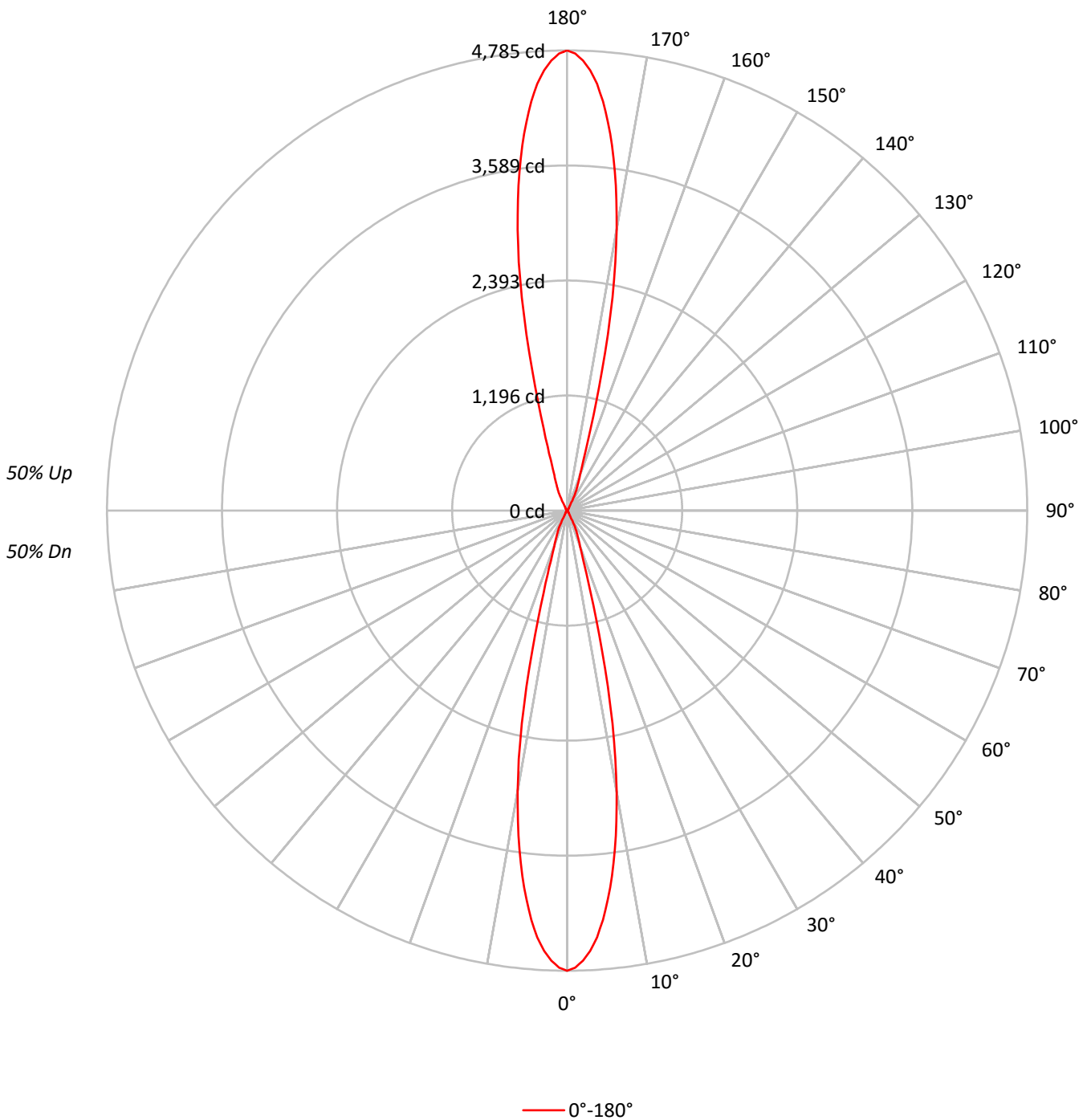
Input Watts (W): 20
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P221252

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

Luminous Intensity Polar Plot





TEST NUMBER: P221252

CATALOG NUMBER: 9002-W2-[RW, RI]-LED3590-M-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	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	60	59	52	52	51	46
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	63	75	69	64	60	61	58	55	54	52	50	48	46	45	43
6	77	68	63	58	72	65	60	56	58	55	52	52	50	48	47	45	44	41
7	73	65	59	55	69	62	57	53	56	52	50	50	48	46	45	44	43	40
8	70	61	56	52	66	59	54	51	54	50	47	49	46	44	44	43	41	39
9	67	59	53	50	64	56	52	48	52	48	46	47	45	43	43	42	40	39
10	65	56	51	47	62	54	49	46	50	46	44	46	43	42	42	41	39	38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2361018
5°	2115372
10°	1485738
15°	592765
20°	203874
25°	113504
30°	27688
35°	15178
40°	11207
45°	10327
50°	9978
55°	10494
60°	10262
65°	10157
70°	9954
75°	9913
80°	9944
85°	9624



TEST NUMBER: P221252

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.5	21.4
10°-20°	346.5	20.3
20°-30°	87.8	5.1
30°-40°	17.1	1.0
40°-50°	11.5	0.7
50°-60°	10.8	0.6
60°-70°	8.6	0.5
70°-80°	5.7	0.3
80°-90°	1.9	0.1
90°-100°	1.9	0.1
100°-110°	5.7	0.3
110°-120°	8.6	0.5
120°-130°	10.8	0.6
130°-140°	11.5	0.7
140°-150°	17.1	1.0
150°-160°	87.8	5.1
160°-170°	346.5	20.3
170°-180°	365.5	21.4
0°-30°	799.8	46.8
0°-40°	816.9	47.8
0°-60°	839.1	49.1
0°-90°	855.4	50.0
90°-120°	16.2	0.9
90°-150°	55.6	3.2
90°-180°	855.0	50.0
0°-180°	1710.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4785	
5°	4271	366
15°	1160	346
25°	208	88
35°	25	17
45°	15	11
55°	12	11
65°	9	9
75°	5	6
85°	2	2
90°	0	0
95°	2	2
105°	5	6
115°	9	9
125°	12	11
135°	15	11
145°	25	17
155°	208	88
165°	1160	346
175°	4271	366
180°	4785	

TEST NUMBER: P221252

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

CANDELA DISTRIBUTION (FULL):

0°	
0°	4785.4
1°	4752.4
2°	4683.8
3°	4584.7
4°	4448.4
5°	4271.2
6°	4062.7
7°	3826.4
8°	3562.3
9°	3273.1
10°	2965.6
11°	2632.0
12°	2262.8
13°	1878.9
14°	1497.6
15°	1160.5
16°	889.5
17°	691.4
18°	552.5
19°	456.0
20°	388.3
22.5°	282.3
25°	208.5
26°	167.6
27°	118.1
28°	79.0
29°	59.1
30°	48.6
32.5°	33.0
35°	25.2
37.5°	20.0
40°	17.4
42.5°	15.6
45°	14.8
47.5°	13.9
50°	13.0
52.5°	13.0
55°	12.2
57.5°	11.3
60°	10.4
62.5°	9.6
65°	8.7
67.5°	7.8
70°	6.9
72.5°	6.1



TEST NUMBER: P221252

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

CANDELA DISTRIBUTION (continued):

	0°
75°	5.2
77.5°	5.2
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°	5.2
105°	5.2
107.5°	6.1
110°	6.9
112.5°	7.8
115°	8.7
117.5°	9.6
120°	10.4
122.5°	11.3
125°	12.2
127.5°	13.0
130°	13.0
132.5°	13.9
135°	14.8
137.5°	15.6
140°	17.4
142.5°	20.0
145°	25.2
147.5°	33.0
150°	48.6
151°	59.1
152°	79.0
153°	118.1
154°	167.6
155°	208.5
157.5°	282.3
160°	388.3
161°	456.0
162°	552.5
163°	691.4
164°	889.5
165°	1160.5
166°	1497.6
167°	1878.9



TEST NUMBER: P221252

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

CANDELA DISTRIBUTION (continued):

	0°
168°	2262.8
169°	2632.0
170°	2965.6
171°	3273.1
172°	3562.3
173°	3826.4
174°	4062.7
175°	4271.2
176°	4448.4
177°	4584.7
178°	4683.8
179°	4752.4
180°	4785.4

(END OF REPORT)