

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: P221335

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221335
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29422)
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-BK-L1-UNV
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, FLUSH LENS, MEDIUM FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3500K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1711.2 lumens
Efficiency: N/A
Efficacy: 85.6 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

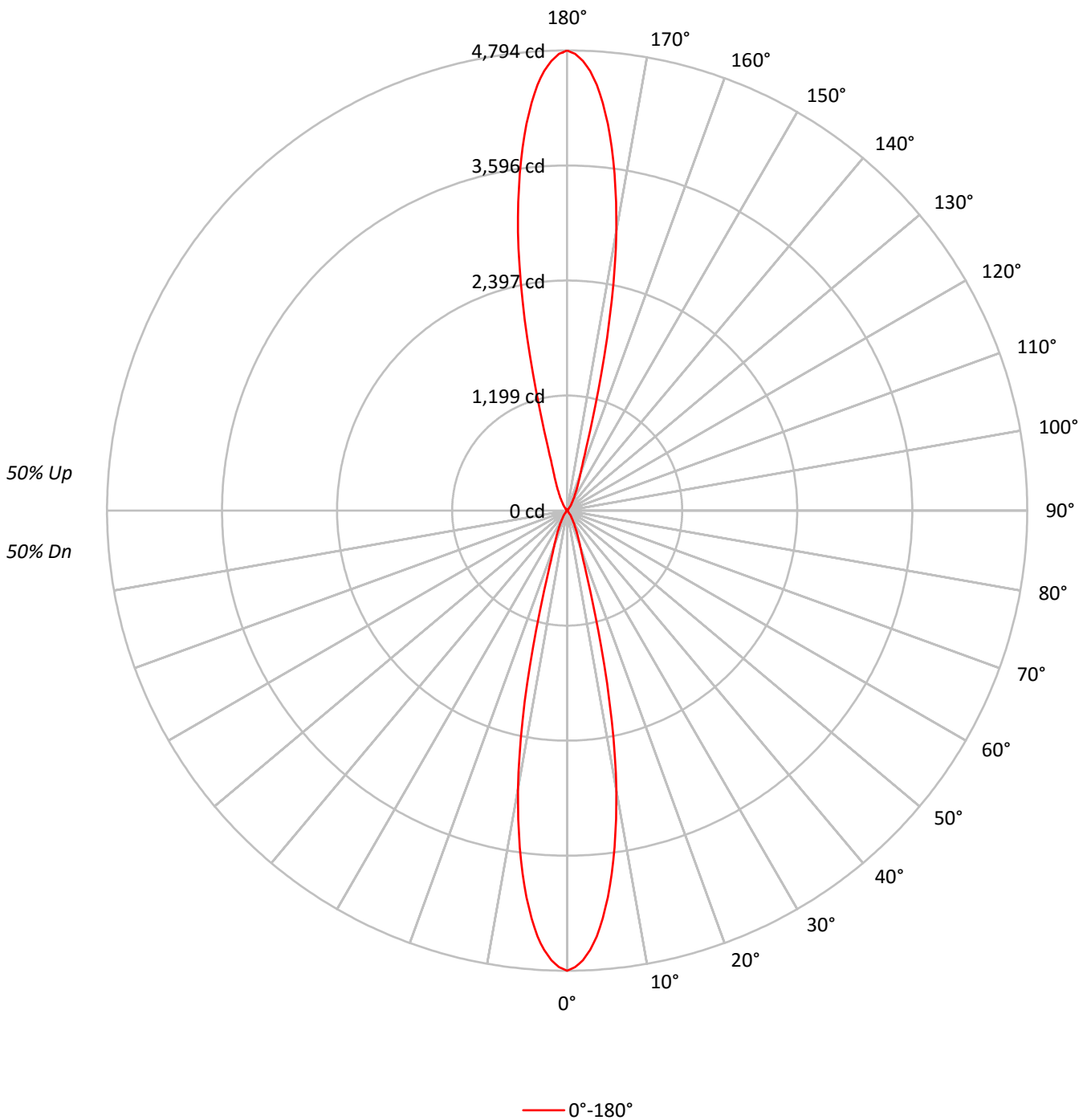
Input Watts (W): 20
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	89	87	78	76	75		66	65	64		54	54	54	48
2	95	90	86	82	88	84	81	78	73	70	68		62	61	60		53	52	51	47
3	90	83	78	74	84	78	74	71	69	66	63		60	58	56		51	50	49	46
4	85	78	72	68	80	73	69	65	65	62	59		57	55	53		50	49	47	44
5	81	73	67	63	76	69	64	61	62	58	56		55	52	51		48	47	46	43
6	77	69	63	59	72	65	60	57	59	55	53		53	50	48		47	46	44	42
7	74	65	59	56	69	62	57	54	56	53	50		51	48	47		46	44	43	41
8	71	62	56	53	67	59	54	51	54	50	48		49	47	45		45	43	42	40
9	68	59	54	50	64	57	52	49	52	48	46		48	45	43		44	42	41	39
10	65	56	51	48	62	54	50	47	50	47	44		46	44	42		43	41	40	38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2365311
5°	2111906
10°	1475718
15°	577697
20°	208442
25°	116825
30°	65801
35°	34512
40°	12302
45°	6698
50°	3991
55°	2236
60°	1677
65°	1051
70°	1298
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.3	21.3
10°-20°	341.2	19.9
20°-30°	102.3	6.0
30°-40°	36.1	2.1
40°-50°	8.1	0.5
50°-60°	2.5	0.1
60°-70°	1.0	0.1
70°-80°	0.1	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.1	0.0
110°-120°	1.0	0.1
120°-130°	2.5	0.1
130°-140°	8.1	0.5
140°-150°	36.1	2.1
150°-160°	102.3	6.0
160°-170°	341.2	19.9
170°-180°	364.3	21.3
0°-30°	807.8	47.2
0°-40°	843.9	49.3
0°-60°	854.5	49.9
0°-90°	855.6	50.0
90°-120°	1.1	0.1
90°-150°	47.8	2.8
90°-180°	856.0	50.0
0°-180°	1711.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4794	
5°	4264	364
15°	1131	341
25°	215	102
35°	57	36
45°	10	8
55°	3	2
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	1	1
125°	3	2
135°	10	8
145°	57	36
155°	215	102
165°	1131	341
175°	4264	364
180°	4794	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4794.1
1°	4758.5
2°	4688.1
3°	4584.8
4°	4444.9
5°	4264.2
6°	4049.7
7°	3810.8
8°	3544.1
9°	3254.0
10°	2945.6
11°	2607.7
12°	2235.9
13°	1845.0
14°	1462.8
15°	1131.0
16°	865.2
17°	673.2
18°	544.6
19°	457.8
20°	397.0
22.5°	291.0
25°	214.6
26°	189.4
27°	167.7
28°	148.5
29°	131.2
30°	115.5
32.5°	83.4
35°	57.3
37.5°	29.5
40°	19.1
42.5°	13.9
45°	9.6
47.5°	6.9
50°	5.2
52.5°	3.5
55°	2.6
57.5°	1.7
60°	1.7
62.5°	0.9
65°	0.9
67.5°	0.9
70°	0.9
72.5°	0.0



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CANDELA DISTRIBUTION (continued):

	0°
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.0
105°	0.0
107.5°	0.0
110°	0.9
112.5°	0.9
115°	0.9
117.5°	0.9
120°	1.7
122.5°	1.7
125°	2.6
127.5°	3.5
130°	5.2
132.5°	6.9
135°	9.6
137.5°	13.9
140°	19.1
142.5°	29.5
145°	57.3
147.5°	83.4
150°	115.5
151°	131.2
152°	148.5
153°	167.7
154°	189.4
155°	214.6
157.5°	291.0
160°	397.0
161°	457.8
162°	544.6
163°	673.2
164°	865.2
165°	1131.0
166°	1462.8
167°	1845.0



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

CANDELA DISTRIBUTION (continued):

	0°
168°	2235.9
169°	2607.7
170°	2945.6
171°	3254.0
172°	3544.1
173°	3810.8
174°	4049.7
175°	4264.2
176°	4444.9
177°	4584.8
178°	4688.1
179°	4758.5
180°	4794.1

(END OF REPORT)