

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: P221339

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221339
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29424)
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-W-BK-L1-UNV
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, FLUSH LENS, WIDE FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3500K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1644.9 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Spacing Criteria (0/90/45): 0.87 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: General Diffuse

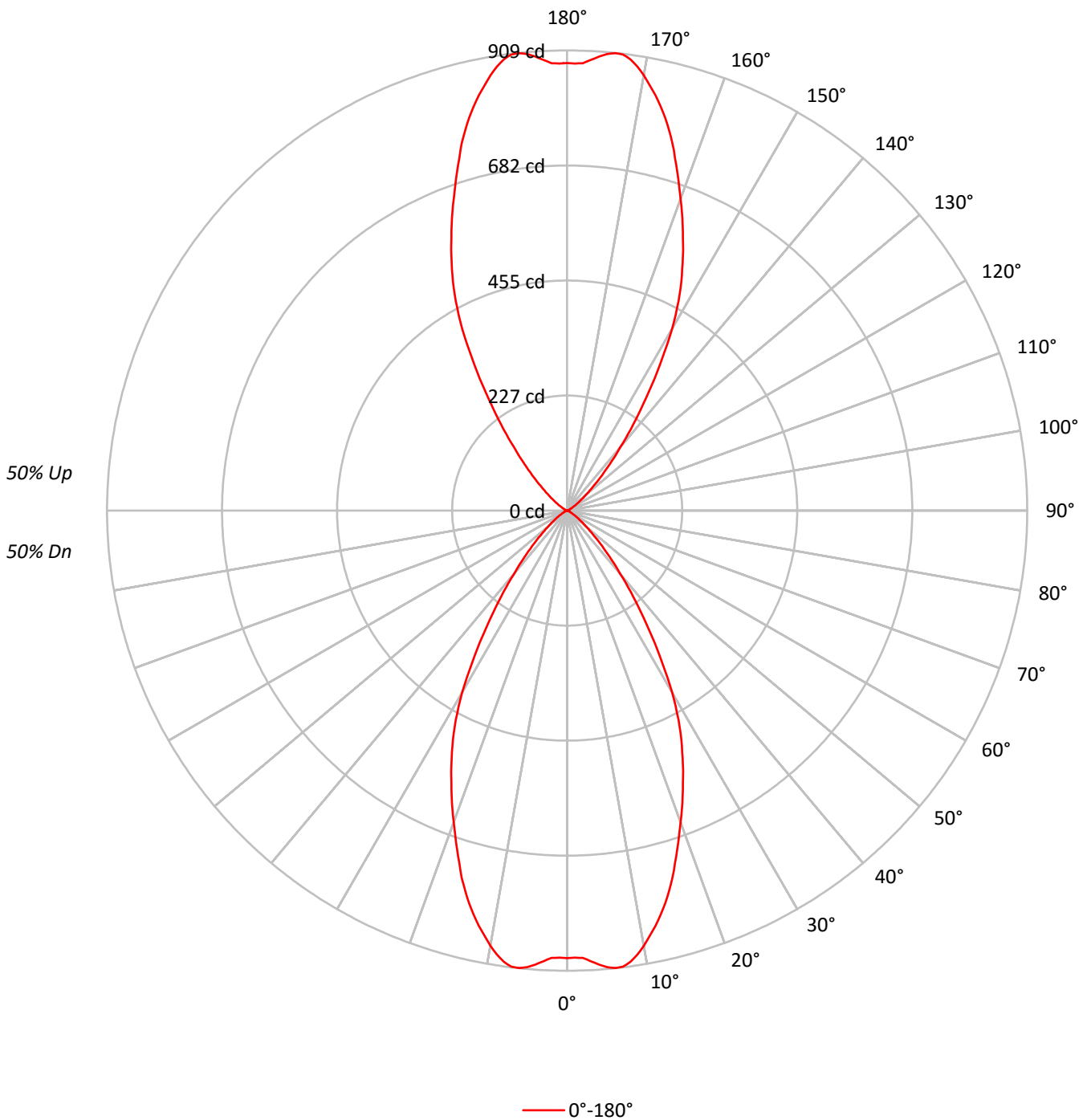
Input Watts (W): 20
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	93	91	92	89	87	85	76	75	73	64	63	62	53	52	52	47				
2	93	87	82	78	86	81	77	73	70	67	64	59	57	56	50	49	47	43				
3	87	79	73	69	80	74	69	65	64	60	57	55	52	50	47	45	44	40				
4	81	72	66	61	75	68	62	58	59	55	52	51	48	46	44	42	40	37				
5	75	66	59	54	70	62	56	52	54	50	47	47	44	42	41	39	37	34				
6	71	60	54	49	66	57	51	47	50	46	43	44	41	38	38	36	34	32				
7	66	56	49	44	62	53	47	43	47	42	39	41	38	35	36	34	32	30				
8	62	52	45	40	58	49	43	39	44	39	36	39	35	33	34	32	30	28				
9	59	48	42	37	55	46	40	36	41	36	33	36	33	30	32	30	28	26				
10	55	45	38	34	52	43	37	33	38	34	31	34	31	28	30	28	26	24				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	436296
5°	448264
10°	437365
15°	397543
20°	343904
25°	293641
30°	236029
35°	163767
40°	105755
45°	64262
50°	37304
55°	20902
60°	11150
65°	6071
70°	2452
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.5	5.2
10°-20°	215.6	13.1
20°-30°	245.8	14.9
30°-40°	172.1	10.5
40°-50°	74.2	4.5
50°-60°	23.3	1.4
60°-70°	5.4	0.3
70°-80°	0.5	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.7	0.0
110°-120°	5.4	0.3
120°-130°	23.3	1.4
130°-140°	74.2	4.5
140°-150°	172.1	10.5
150°-160°	245.8	14.9
160°-170°	215.6	13.1
170°-180°	85.5	5.2
0°-30°	546.9	33.3
0°-40°	719.0	43.7
0°-60°	816.6	49.6
0°-90°	822.4	50.0
90°-120°	6.1	0.4
90°-150°	275.7	16.8
90°-180°	823.0	50.0
0°-180°	1644.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	884	
5°	905	86
15°	778	216
25°	539	246
35°	272	172
45°	92	74
55°	24	23
65°	5	5
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	1
115°	5	5
125°	24	23
135°	92	74
145°	272	172
155°	539	246
165°	778	216
175°	905	86
180°	884	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	884.3
1°	883.4
2°	884.3
3°	891.2
4°	899.1
5°	905.1
6°	908.6
7°	907.7
8°	899.9
9°	887.8
10°	873.0
11°	855.6
12°	839.1
13°	820.0
14°	800.0
15°	778.3
16°	754.9
17°	728.8
18°	703.6
19°	679.3
20°	655.0
21°	632.4
22°	608.9
23°	585.5
24°	562.9
25°	539.4
26°	516.8
27°	493.4
28°	468.2
29°	442.1
30°	414.3
32.5°	340.5
35°	271.9
37.5°	213.7
40°	164.2
42.5°	124.2
45°	92.1
47.5°	66.9
50°	48.6
52.5°	34.7
55°	24.3
57.5°	16.5
60°	11.3
62.5°	7.8
65°	5.2



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	2.6
70°	1.7
72.5°	0.9
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°	0.9
110°	1.7
112.5°	2.6
115°	5.2
117.5°	7.8
120°	11.3
122.5°	16.5
125°	24.3
127.5°	34.7
130°	48.6
132.5°	66.9
135°	92.1
137.5°	124.2
140°	164.2
142.5°	213.7
145°	271.9
147.5°	340.5
150°	414.3
151°	442.1
152°	468.2
153°	493.4
154°	516.8
155°	539.4
156°	562.9
157°	585.5
158°	608.9
159°	632.4
160°	655.0
161°	679.3



TEST NUMBER: P221339

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

CANDELA DISTRIBUTION (continued):

	0°
162°	703.6
163°	728.8
164°	754.9
165°	778.3
166°	800.0
167°	820.0
168°	839.1
169°	855.6
170°	873.0
171°	887.8
172°	899.9
173°	907.7
174°	908.6
175°	905.1
176°	899.1
177°	891.2
178°	884.3
179°	883.4
180°	884.3

(END OF REPORT)