

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: P221342

Luminaire Tested: **9002-W2-FL-LED3597-F-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221342
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29419)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9002-W2-FL-LED3597-F-WT-L1-UNV
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, FLUSH LENS, FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 3500K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1681.5 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Spacing Criteria (0/90/45): 0.67 / 0.67 / 0.63
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: General Diffuse

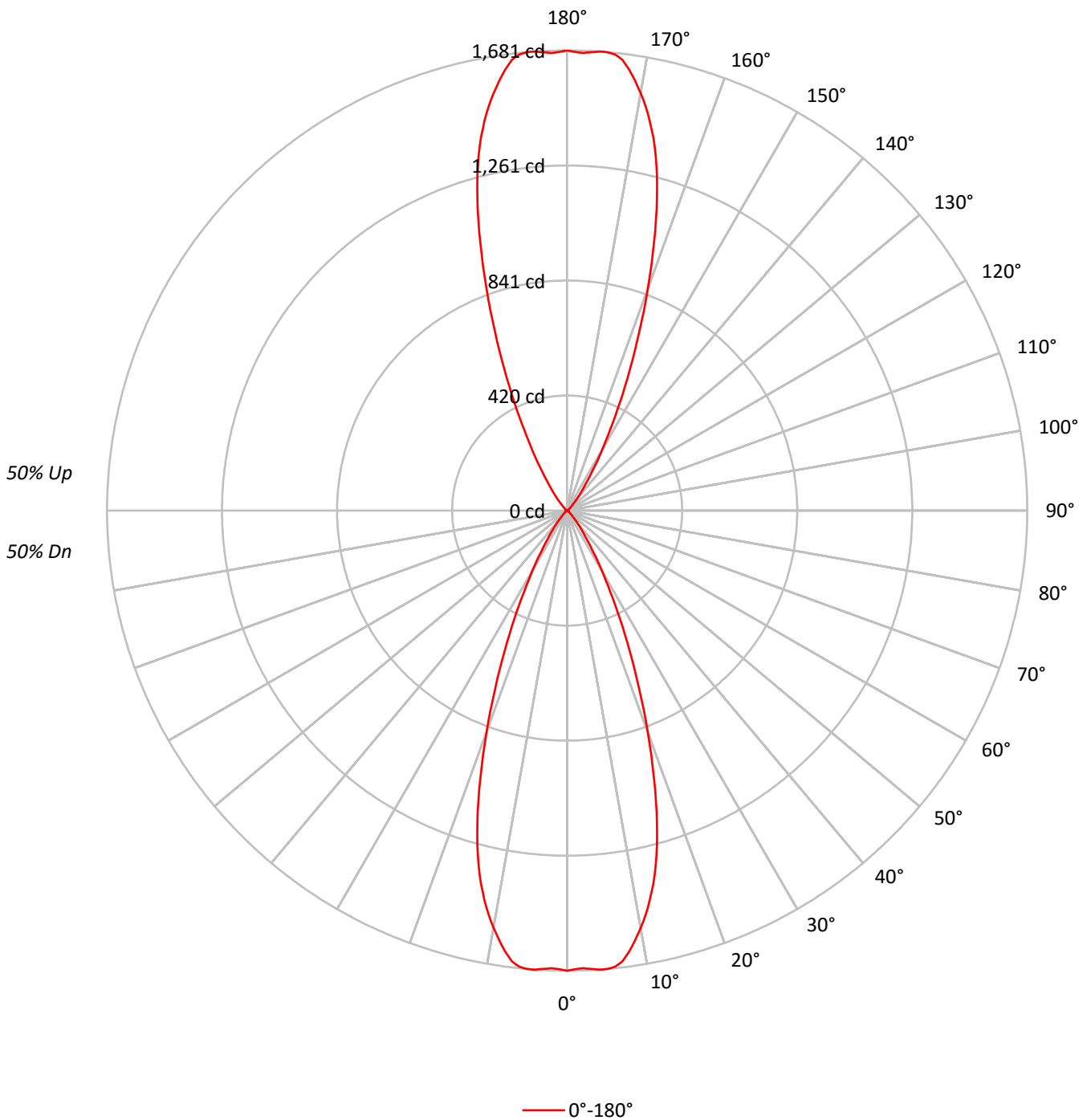
Input Watts (W): 20
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	829420
5°	832589
10°	775484
15°	647010
20°	451380
25°	271593
30°	143509
35°	69024
40°	32976
45°	15281
50°	8750
55°	5591
60°	4835
65°	4786
70°	4760
75°	4575
80°	4546
85°	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.4	9.3
10°-20°	341.8	20.3
20°-30°	231.2	13.8
30°-40°	78.3	4.7
40°-50°	19.2	1.1
50°-60°	6.3	0.4
60°-70°	4.3	0.3
70°-80°	2.6	0.2
80°-90°	0.7	0.0
90°-100°	0.7	0.0
100°-110°	2.6	0.2
110°-120°	4.3	0.3
120°-130°	6.3	0.4
130°-140°	19.2	1.1
140°-150°	78.3	4.7
150°-160°	231.2	13.8
160°-170°	341.8	20.3
170°-180°	156.4	9.3
0°-30°	729.4	43.4
0°-40°	807.7	48.0
0°-60°	833.3	49.6
0°-90°	840.7	50.0
90°-120°	7.5	0.4
90°-150°	111.3	6.6
90°-180°	841.0	50.0
0°-180°	1681.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1681	
5°	1681	156
15°	1267	342
25°	499	231
35°	115	78
45°	22	19
55°	6	6
65°	4	4
75°	2	3
85°	1	1
90°	0	0
95°	1	1
105°	2	3
115°	4	4
125°	6	6
135°	22	19
145°	115	78
155°	499	231
165°	1267	342
175°	1681	156
180°	1681	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1681.1
1°	1675.4
2°	1673.0
3°	1676.3
4°	1681.1
5°	1681.1
6°	1675.4
7°	1658.4
8°	1626.7
9°	1589.3
10°	1547.9
11°	1504.0
12°	1453.6
13°	1399.2
14°	1337.4
15°	1266.7
16°	1191.2
17°	1109.9
18°	1025.4
19°	944.2
20°	859.7
21°	780.8
22°	703.7
23°	630.5
24°	562.3
25°	498.9
26°	439.6
27°	385.1
28°	335.6
29°	291.7
30°	251.9
32.5°	170.6
35°	114.6
37.5°	77.2
40°	51.2
42.5°	32.5
45°	21.9
47.5°	15.4
50°	11.4
52.5°	8.1
55°	6.5
57.5°	5.7
60°	4.9
62.5°	4.9
65°	4.1



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	4.1
70°	3.3
72.5°	3.3
75°	2.4
77.5°	1.6
80°	1.6
82.5°	0.8
85°	0.8
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.8
97.5°	0.8
100°	1.6
102.5°	1.6
105°	2.4
107.5°	3.3
110°	3.3
112.5°	4.1
115°	4.1
117.5°	4.9
120°	4.9
122.5°	5.7
125°	6.5
127.5°	8.1
130°	11.4
132.5°	15.4
135°	21.9
137.5°	32.5
140°	51.2
142.5°	77.2
145°	114.6
147.5°	170.6
150°	251.9
151°	291.7
152°	335.6
153°	385.1
154°	439.6
155°	498.9
156°	562.3
157°	630.5
158°	703.7
159°	780.8
160°	859.7
161°	944.2



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CANDELA DISTRIBUTION (continued):

	0°
162°	1025.4
163°	1109.9
164°	1191.2
165°	1266.7
166°	1337.4
167°	1399.2
168°	1453.6
169°	1504.0
170°	1547.9
171°	1589.3
172°	1626.7
173°	1658.4
174°	1675.4
175°	1681.1
176°	1681.1
177°	1676.3
178°	1673.0
179°	1675.4
180°	1681.1

(END OF REPORT)