

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: P221341

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221341
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29423)
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-BK-L1-UNV
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, FLUSH LENS, FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3500K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

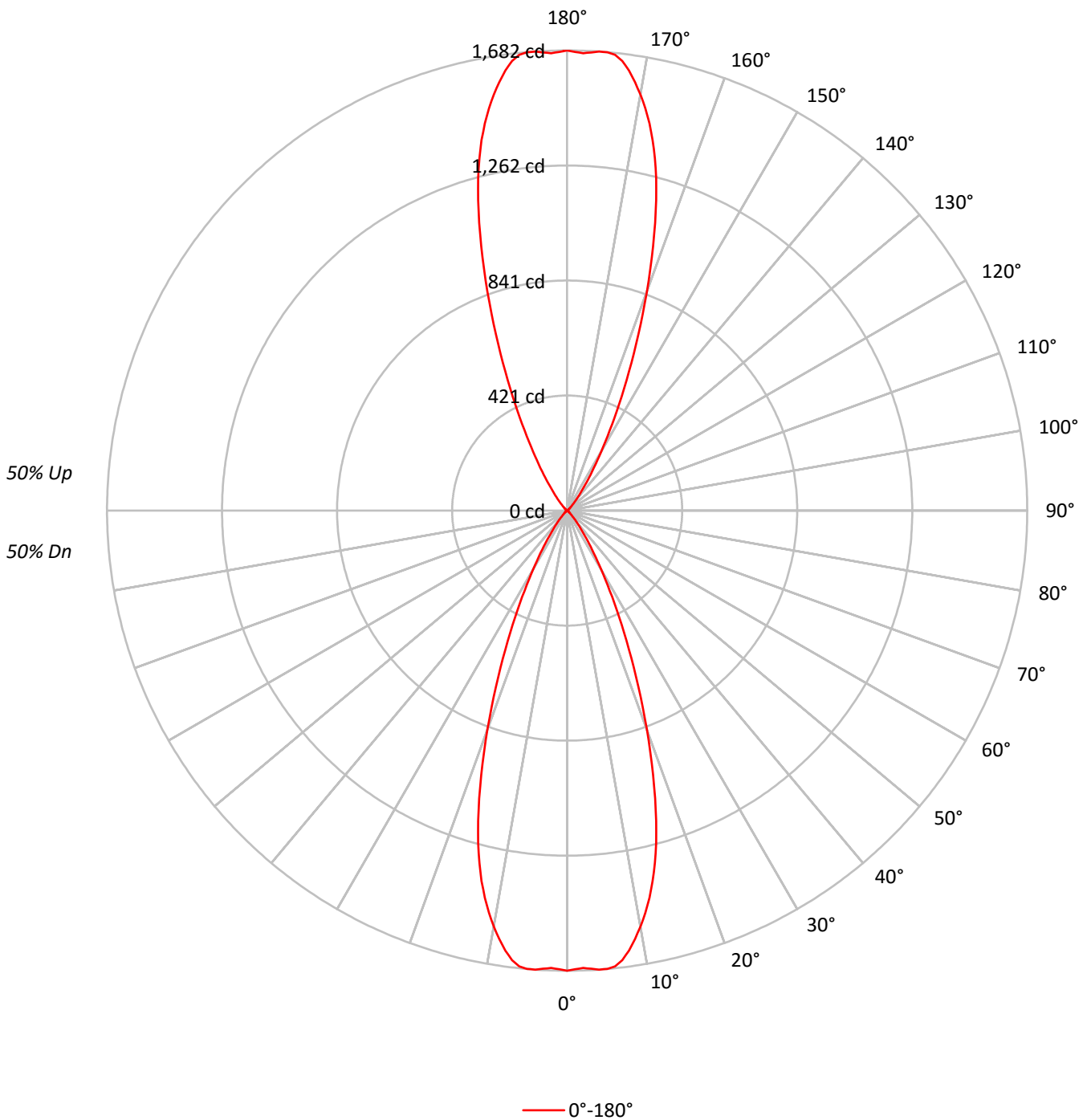
Lumens per Lamp: N/A
Luminaire Lumens: 1649.2 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Spacing Criteria (0/90/45): 0.66 / 0.66 / 0.63
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: General Diffuse

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



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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	86	77	75	74		65	64	63		54	53	53	48
2	94	89	84	80	87	83	79	76	71	69	67		61	59	58		51	50	50	45
3	88	81	76	72	82	76	72	68	67	63	61		58	55	53		49	48	47	43
4	83	75	69	65	77	71	66	62	62	58	56		54	52	50		47	45	44	41
5	78	70	63	59	73	66	60	56	58	54	51		51	49	46		45	43	42	39
6	74	65	59	54	69	61	56	52	55	51	48		49	46	44		43	41	40	37
7	70	61	54	50	66	57	52	48	52	48	45		46	43	41		41	39	38	35
8	66	57	51	47	62	54	49	45	49	45	42		44	41	39		39	37	36	34
9	63	53	48	44	59	51	46	42	46	42	40		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°	829815
5°	832985
10°	773429
15°	642056
20°	447075
25°	268055
30°	141629
35°	67518
40°	31430
45°	13606
50°	6831
55°	3527
60°	2368
65°	1868
70°	2308
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.3	9.5
10°-20°	339.2	20.6
20°-30°	228.5	13.9
30°-40°	76.7	4.7
40°-50°	17.3	1.0
50°-60°	4.3	0.3
60°-70°	1.9	0.1
70°-80°	0.4	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.6	0.0
110°-120°	1.9	0.1
120°-130°	4.3	0.3
130°-140°	17.3	1.0
140°-150°	76.7	4.7
150°-160°	228.5	13.9
160°-170°	339.2	20.6
170°-180°	156.3	9.5
0°-30°	723.9	43.9
0°-40°	800.7	48.5
0°-60°	822.3	49.9
0°-90°	824.6	50.0
90°-120°	2.5	0.2
90°-150°	100.9	6.1
90°-180°	825.0	50.0
0°-180°	1649.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1682	
5°	1682	156
15°	1257	339
25°	492	228
35°	112	77
45°	20	17
55°	4	4
65°	2	2
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	1
115°	2	2
125°	4	4
135°	20	17
145°	112	77
155°	492	228
165°	1257	339
175°	1682	156
180°	1682	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1681.9
1°	1676.3
2°	1673.0
3°	1677.1
4°	1681.9
5°	1681.9
6°	1675.4
7°	1655.9
8°	1624.3
9°	1585.3
10°	1543.8
11°	1497.5
12°	1447.1
13°	1390.2
14°	1326.9
15°	1257.0
16°	1179.8
17°	1100.2
18°	1016.5
19°	933.6
20°	851.5
21°	771.9
22°	695.5
23°	623.2
24°	555.8
25°	492.4
26°	433.9
27°	381.1
28°	331.5
29°	287.6
30°	248.6
32.5°	168.2
35°	112.1
37.5°	74.8
40°	48.8
42.5°	30.1
45°	19.5
47.5°	13.0
50°	8.9
52.5°	6.5
55°	4.1
57.5°	3.3
60°	2.4
62.5°	2.4
65°	1.6



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	1.6
70°	1.6
72.5°	0.8
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°	0.8
110°	1.6
112.5°	1.6
115°	1.6
117.5°	2.4
120°	2.4
122.5°	3.3
125°	4.1
127.5°	6.5
130°	8.9
132.5°	13.0
135°	19.5
137.5°	30.1
140°	48.8
142.5°	74.8
145°	112.1
147.5°	168.2
150°	248.6
151°	287.6
152°	331.5
153°	381.1
154°	433.9
155°	492.4
156°	555.8
157°	623.2
158°	695.5
159°	771.9
160°	851.5
161°	933.6



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CANDELA DISTRIBUTION (continued):

	0°
162°	1016.5
163°	1100.2
164°	1179.8
165°	1257.0
166°	1326.9
167°	1390.2
168°	1447.1
169°	1497.5
170°	1543.8
171°	1585.3
172°	1624.3
173°	1655.9
174°	1675.4
175°	1681.9
176°	1681.9
177°	1677.1
178°	1673.0
179°	1676.3
180°	1681.9

(END OF REPORT)