

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: P221357

Luminaire Tested: **9002-W2-FL-LED4097-F-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221357
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-LED4097-F-BK-L1-UNV
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, FLUSH LENS, FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 4000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

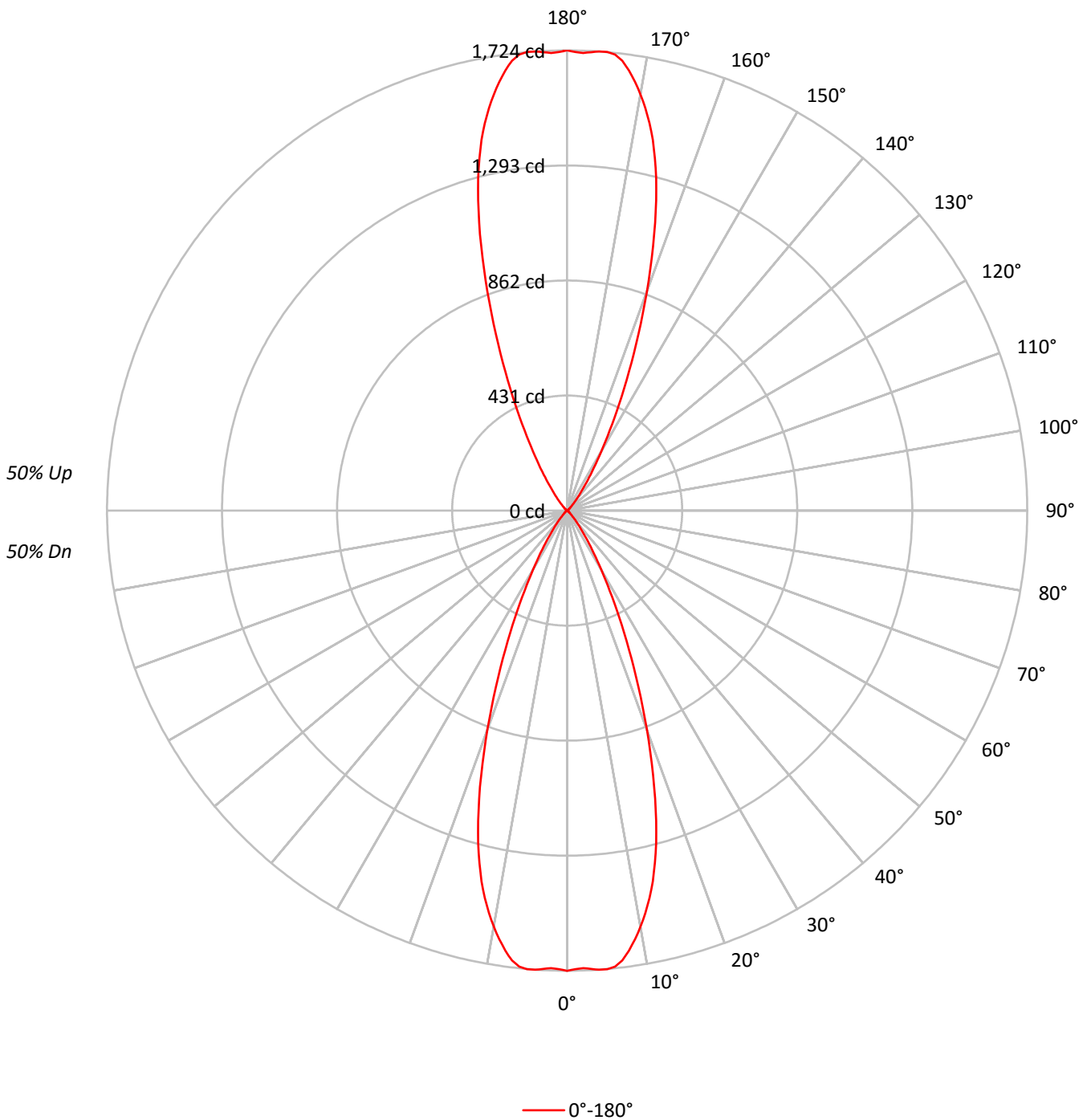
Lumens per Lamp: N/A
Luminaire Lumens: 1691.0 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Spacing Criteria (0/90/45): 0.66 / 0.66 / 0.63
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: General Diffuse

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°	850833
5°	854083
10°	792968
15°	658299
20°	458416
25°	274805
30°	145218
35°	69265
40°	32203
45°	13955
50°	7062
55°	3613
60°	2467
65°	1985
70°	2452
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.2	9.5
10°-20°	347.8	20.6
20°-30°	234.2	13.9
30°-40°	78.7	4.7
40°-50°	17.7	1.0
50°-60°	4.4	0.3
60°-70°	2.0	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°	2.0	0.1
120°-130°	4.4	0.3
130°-140°	17.7	1.0
140°-150°	78.7	4.7
150°-160°	234.2	13.9
160°-170°	347.8	20.6
170°-180°	160.2	9.5
0°-30°	742.2	43.9
0°-40°	820.9	48.5
0°-60°	843.1	49.9
0°-90°	845.5	50.0
90°-120°	2.6	0.2
90°-150°	103.5	6.1
90°-180°	846.0	50.0
0°-180°	1691.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1724	
5°	1724	160
15°	1289	348
25°	505	234
35°	115	79
45°	20	18
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	18
145°	115	79
155°	505	234
165°	1289	348
175°	1724	160
180°	1724	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1724.5
1°	1718.6
2°	1715.3
3°	1719.5
4°	1724.5
5°	1724.5
6°	1717.8
7°	1697.8
8°	1665.3
9°	1625.3
10°	1582.8
11°	1535.3
12°	1483.7
13°	1425.4
14°	1360.4
15°	1288.8
16°	1209.6
17°	1128.0
18°	1042.2
19°	957.2
20°	873.1
21°	791.4
22°	713.1
23°	639.0
24°	569.8
25°	504.8
26°	444.9
27°	390.7
28°	339.9
29°	294.9
30°	254.9
32.5°	172.4
35°	115.0
37.5°	76.6
40°	50.0
42.5°	30.8
45°	20.0
47.5°	13.3
50°	9.2
52.5°	6.7
55°	4.2
57.5°	3.3
60°	2.5
62.5°	2.5
65°	1.7



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	1.7
70°	1.7
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°	1.7
112.5°	1.7
115°	1.7
117.5°	2.5
120°	2.5
122.5°	3.3
125°	4.2
127.5°	6.7
130°	9.2
132.5°	13.3
135°	20.0
137.5°	30.8
140°	50.0
142.5°	76.6
145°	115.0
147.5°	172.4
150°	254.9
151°	294.9
152°	339.9
153°	390.7
154°	444.9
155°	504.8
156°	569.8
157°	639.0
158°	713.1
159°	791.4
160°	873.1
161°	957.2



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CANDELA DISTRIBUTION (continued):

	0°
162°	1042.2
163°	1128.0
164°	1209.6
165°	1288.8
166°	1360.4
167°	1425.4
168°	1483.7
169°	1535.3
170°	1582.8
171°	1625.3
172°	1665.3
173°	1697.8
174°	1717.8
175°	1724.5
176°	1724.5
177°	1719.5
178°	1715.3
179°	1718.6
180°	1724.5

(END OF REPORT)