

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: P221358

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221358
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-LED4097-F-WT-L1-UNV
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, FLUSH LENS, FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 4000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

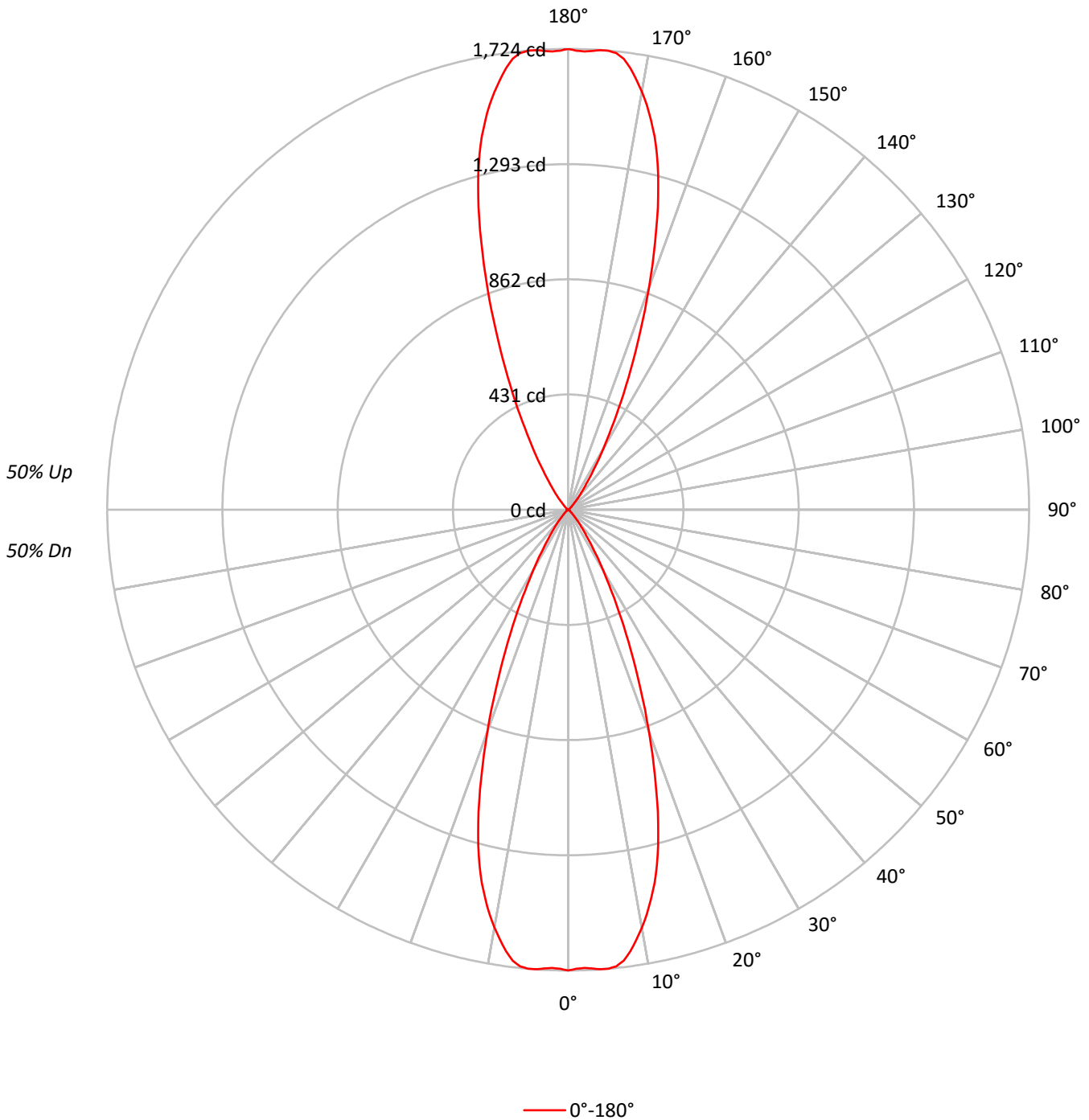
Lumens per Lamp: N/A
Luminaire Lumens: 1723.9 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Spacing Criteria (0/90/45): 0.67 / 0.67 / 0.63
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 20
Input Voltage (V): 120
Input Current (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	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°	850389
5°	853637
10°	795072
15°	663406
20°	462773
25°	278452
30°	147155
35°	70771
40°	33813
45°	15699
50°	8980
55°	5763
60°	4934
65°	4903
70°	4760
75°	4766
80°	4830
85°	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.4	9.3
10°-20°	350.4	20.3
20°-30°	237.1	13.8
30°-40°	80.3	4.7
40°-50°	19.7	1.1
50°-60°	6.5	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°	6.5	0.4
130°-140°	19.7	1.1
140°-150°	80.3	4.7
150°-160°	237.1	13.8
160°-170°	350.4	20.3
170°-180°	160.4	9.3
0°-30°	747.9	43.4
0°-40°	828.2	48.0
0°-60°	854.3	49.6
0°-90°	862.0	50.0
90°-120°	7.6	0.4
90°-150°	114.1	6.6
90°-180°	862.0	50.0
0°-180°	1723.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1724	
5°	1724	160
15°	1299	350
25°	512	237
35°	118	80
45°	22	20
55°	7	6
65°	4	4
75°	2	3
85°	1	1
90°	0	0
95°	1	1
105°	2	3
115°	4	4
125°	7	6
135°	22	20
145°	118	80
155°	512	237
165°	1299	350
175°	1724	160
180°	1724	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1723.6
1°	1717.8
2°	1715.3
3°	1718.6
4°	1723.6
5°	1723.6
6°	1717.8
7°	1700.3
8°	1667.8
9°	1629.5
10°	1587.0
11°	1542.0
12°	1490.4
13°	1434.5
14°	1371.2
15°	1298.8
16°	1221.3
17°	1138.0
18°	1051.3
19°	968.0
20°	881.4
21°	800.6
22°	721.4
23°	646.5
24°	576.5
25°	511.5
26°	450.7
27°	394.9
28°	344.1
29°	299.1
30°	258.3
32.5°	174.9
35°	117.5
37.5°	79.1
40°	52.5
42.5°	33.3
45°	22.5
47.5°	15.8
50°	11.7
52.5°	8.3
55°	6.7
57.5°	5.8
60°	5.0
62.5°	5.0
65°	4.2



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	4.2
70°	3.3
72.5°	3.3
75°	2.5
77.5°	1.7
80°	1.7
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°	1.7
102.5°	1.7
105°	2.5
107.5°	3.3
110°	3.3
112.5°	4.2
115°	4.2
117.5°	5.0
120°	5.0
122.5°	5.8
125°	6.7
127.5°	8.3
130°	11.7
132.5°	15.8
135°	22.5
137.5°	33.3
140°	52.5
142.5°	79.1
145°	117.5
147.5°	174.9
150°	258.3
151°	299.1
152°	344.1
153°	394.9
154°	450.7
155°	511.5
156°	576.5
157°	646.5
158°	721.4
159°	800.6
160°	881.4
161°	968.0



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CANDELA DISTRIBUTION (continued):

	0°
162°	1051.3
163°	1138.0
164°	1221.3
165°	1298.8
166°	1371.2
167°	1434.5
168°	1490.4
169°	1542.0
170°	1587.0
171°	1629.5
172°	1667.8
173°	1700.3
174°	1717.8
175°	1723.6
176°	1723.6
177°	1718.6
178°	1715.3
179°	1717.8
180°	1723.6

(END OF REPORT)