

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: P221908

Luminaire Tested: **9004-W2-[RW, RI]-LED4097-W-BK-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221908
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29494)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9004-W2-[RW, RI]-LED4097-W-BK-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, WIDE FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 4000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2921.7 lumens
Efficiency: N/A
Efficacy: 72.7 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.83
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

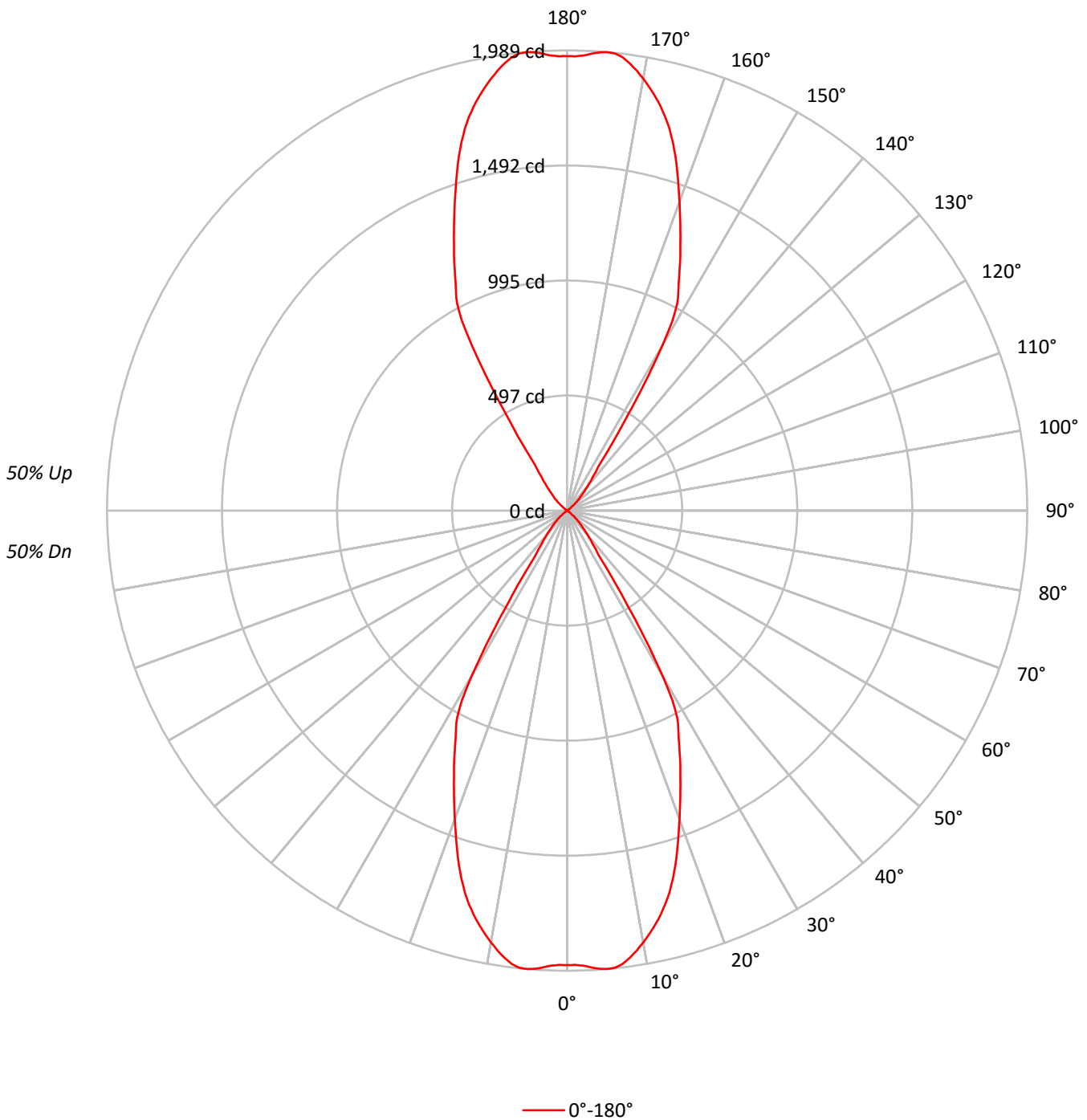
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	91	93	90	87	85	77	75	74		65	64	63		53	53	52	47
2	94	88	83	79	87	82	78	75	71	68	66		60	59	57		51	50	49	44
3	88	80	75	70	81	75	70	67	65	62	59		56	54	52		48	47	45	42
4	82	74	68	63	76	69	64	60	61	57	54		53	50	48		46	44	42	39
5	77	68	62	57	72	64	58	54	57	52	49		50	47	44		43	41	40	37
6	72	63	56	52	68	59	54	50	53	49	45		47	44	41		41	39	37	35
7	68	58	52	47	64	55	50	46	49	45	42		44	41	38		39	37	35	33
8	64	54	48	44	60	52	46	42	46	42	39		41	38	36		37	35	33	31
9	61	51	45	40	57	48	43	39	44	39	36		39	36	34		35	33	31	29
10	58	48	42	38	54	45	40	36	41	37	34		37	34	32		33	31	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	242325
5°	246284
10°	237396
15°	218208
20°	186300
25°	156511
30°	117161
35°	36771
40°	21786
45°	13240
50°	5526
55°	925
60°	592
65°	350
70°	216
75°	286
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.9	6.4
10°-20°	471.3	16.1
20°-30°	524.9	18.0
30°-40°	209.4	7.2
40°-50°	59.9	2.0
50°-60°	6.6	0.2
60°-70°	1.3	0.0
70°-80°	0.6	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.6	0.0
110°-120°	1.3	0.0
120°-130°	6.6	0.2
130°-140°	59.9	2.0
140°-150°	209.4	7.2
150°-160°	524.9	18.0
160°-170°	471.3	16.1
170°-180°	186.9	6.4
0°-30°	1183.1	40.5
0°-40°	1392.5	47.7
0°-60°	1459.0	49.9
0°-90°	1460.8	50.0
90°-120°	1.8	0.1
90°-150°	277.7	9.5
90°-180°	1461.0	50.0
0°-180°	2921.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1965	
5°	1989	187
15°	1709	471
25°	1150	525
35°	244	209
45°	76	60
55°	4	7
65°	1	1
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	1	1
125°	4	7
135°	76	60
145°	244	209
155°	1150	525
165°	1709	471
175°	1989	187
180°	1965	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1964.6
1°	1964.0
2°	1967.6
3°	1976.8
4°	1985.4
5°	1989.1
6°	1986.6
7°	1973.8
8°	1951.7
9°	1924.8
10°	1895.4
11°	1863.6
12°	1830.6
13°	1793.8
14°	1753.4
15°	1708.8
16°	1656.7
17°	1601.0
18°	1540.5
19°	1478.6
20°	1419.3
21°	1361.7
22°	1306.7
23°	1252.8
24°	1202.0
25°	1150.0
26°	1101.0
27°	1058.8
28°	1014.7
29°	937.0
30°	822.6
32.5°	481.0
35°	244.2
37.5°	180.5
40°	135.3
42.5°	100.4
45°	75.9
47.5°	56.3
50°	28.8
52.5°	7.3
55°	4.3
57.5°	3.1
60°	2.4
62.5°	1.8
65°	1.2



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.6
70°	0.6
72.5°	0.6
75°	0.6
77.5°	0.6
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°	0.6
105°	0.6
107.5°	0.6
110°	0.6
112.5°	0.6
115°	1.2
117.5°	1.8
120°	2.4
122.5°	3.1
125°	4.3
127.5°	7.3
130°	28.8
132.5°	56.3
135°	75.9
137.5°	100.4
140°	135.3
142.5°	180.5
145°	244.2
147.5°	481.0
150°	822.6
151°	937.0
152°	1014.7
153°	1058.8
154°	1101.0
155°	1150.0
156°	1202.0
157°	1252.8
158°	1306.7
159°	1361.7
160°	1419.3
161°	1478.6



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CANDELA DISTRIBUTION (continued):

	0°
162°	1540.5
163°	1601.0
164°	1656.7
165°	1708.8
166°	1753.4
167°	1793.8
168°	1830.6
169°	1863.6
170°	1895.4
171°	1924.8
172°	1951.7
173°	1973.8
174°	1986.6
175°	1989.1
176°	1985.4
177°	1976.8
178°	1967.6
179°	1964.0
180°	1964.6

(END OF REPORT)