

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: P222140

Luminaire Tested: **9004-W2-FL-LED4097-M-WT-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222140
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29497)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9004-W2-FL-LED4097-M-WT-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, MEDIUM FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 4000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4481.9 lumens
Efficiency: N/A
Efficacy: 78.4 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

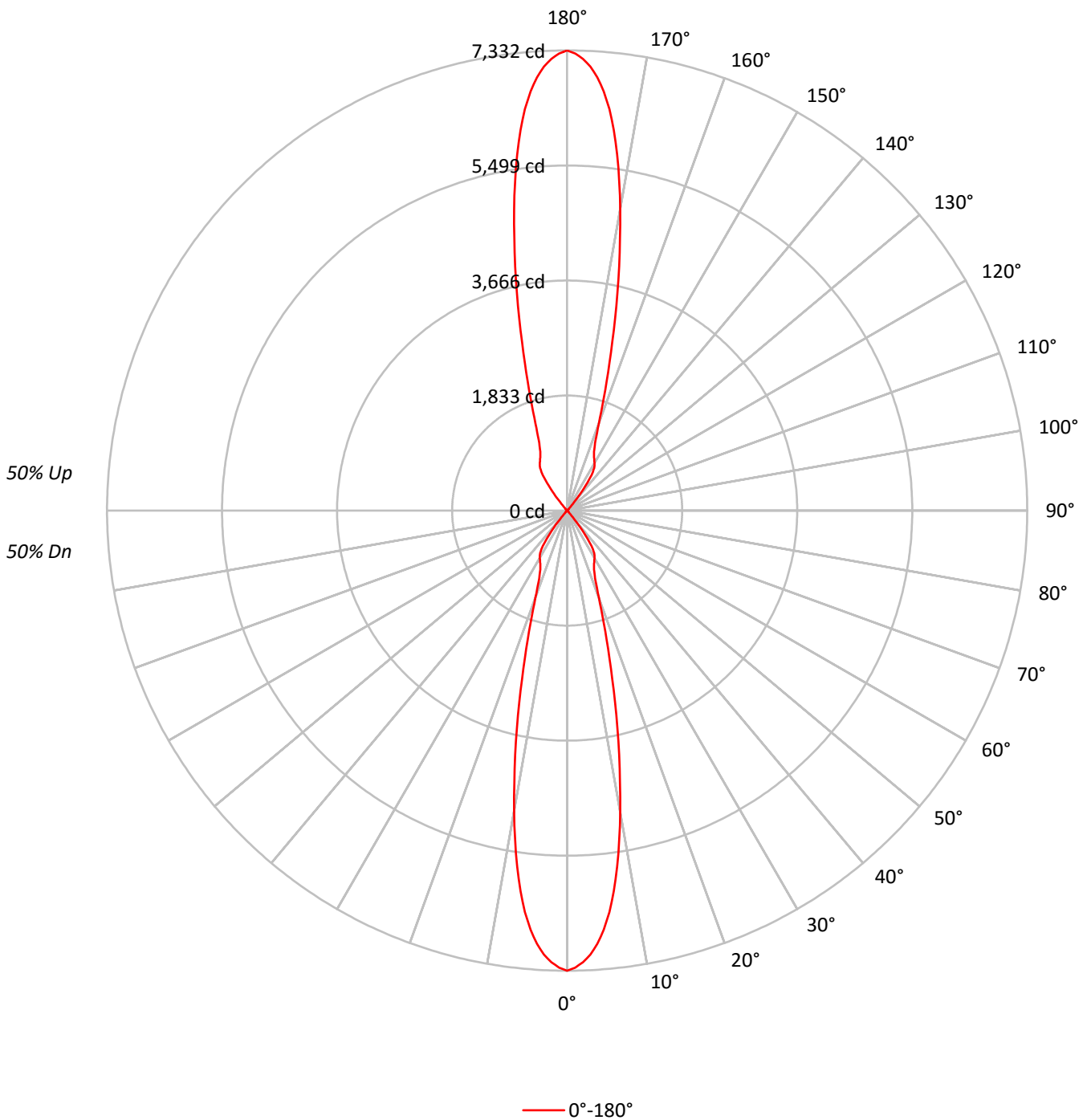
Input Watts (W): 57.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	94	92	93	90	88	86	77	76	74		65	64	63		54	53	53	48
2	94	89	84	81	87	83	79	76	72	69	67		61	59	58		52	51	50	45
3	89	82	76	72	82	76	72	68	67	63	61		58	56	54		49	48	47	43
4	83	75	69	65	78	71	66	62	62	59	56		55	52	50		47	46	44	41
5	79	70	64	59	73	66	61	57	59	55	52		52	49	47		45	43	42	39
6	74	65	59	55	70	62	56	52	55	51	48		49	46	44		43	41	40	38
7	70	61	55	51	66	58	53	49	52	48	45		47	44	42		42	40	38	36
8	67	57	51	47	63	55	49	46	49	45	42		45	42	39		40	38	36	34
9	64	54	48	44	60	52	46	43	47	43	40		43	40	38		38	36	35	33
10	61	51	45	42	57	49	44	40	45	41	38		41	38	36		37	35	33	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	904370
5°	829870
10°	609759
15°	354984
20°	193585
25°	137594
30°	123997
35°	97664
40°	21705
45°	5948
50°	1976
55°	1204
60°	789
65°	467
70°	289
75°	381
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	580.6	13.0
10°-20°	774.9	17.3
20°-30°	484.6	10.8
30°-40°	359.4	8.0
40°-50°	33.5	0.7
50°-60°	5.4	0.1
60°-70°	1.9	0.0
70°-80°	0.7	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.7	0.0
110°-120°	1.9	0.0
120°-130°	5.4	0.1
130°-140°	33.5	0.7
140°-150°	359.4	8.0
150°-160°	484.6	10.8
160°-170°	774.9	17.3
170°-180°	580.6	13.0
0°-30°	1840.1	41.1
0°-40°	2199.5	49.1
0°-60°	2238.4	49.9
0°-90°	2241.0	50.0
90°-120°	2.6	0.1
90°-150°	400.9	8.9
90°-180°	2241.0	50.0
0°-180°	4481.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7332	
5°	6702	581
15°	2780	775
25°	1011	485
35°	649	359
45°	34	33
55°	6	5
65°	2	2
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	2	2
125°	6	5
135°	34	33
145°	649	359
155°	1011	485
165°	2780	775
175°	6702	581
180°	7332	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	7332.0
1°	7283.6
2°	7201.1
3°	7082.2
4°	6918.9
5°	6702.4
6°	6433.6
7°	6109.3
8°	5731.1
9°	5309.3
10°	4868.4
11°	4417.3
12°	3980.4
13°	3554.6
14°	3150.2
15°	2779.9
16°	2442.9
17°	2148.8
18°	1884.7
19°	1661.1
20°	1474.8
21°	1327.3
22°	1209.2
23°	1122.0
24°	1057.7
25°	1011.0
26°	976.1
27°	945.9
28°	918.2
29°	894.4
30°	870.6
32.5°	804.8
35°	648.6
37.5°	392.5
40°	134.8
42.5°	46.8
45°	34.1
47.5°	24.6
50°	10.3
52.5°	7.9
55°	5.6
57.5°	4.0
60°	3.2
62.5°	2.4
65°	1.6



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	1.6
70°	0.8
72.5°	0.8
75°	0.8
77.5°	0.8
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°	0.8
105°	0.8
107.5°	0.8
110°	0.8
112.5°	1.6
115°	1.6
117.5°	2.4
120°	3.2
122.5°	4.0
125°	5.6
127.5°	7.9
130°	10.3
132.5°	24.6
135°	34.1
137.5°	46.8
140°	134.8
142.5°	392.5
145°	648.6
147.5°	804.8
150°	870.6
151°	894.4
152°	918.2
153°	945.9
154°	976.1
155°	1011.0
156°	1057.7
157°	1122.0
158°	1209.2
159°	1327.3
160°	1474.8
161°	1661.1



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CANDELA DISTRIBUTION (continued):

	0°
162°	1884.7
163°	2148.8
164°	2442.9
165°	2779.9
166°	3150.2
167°	3554.6
168°	3980.4
169°	4417.3
170°	4868.4
171°	5309.3
172°	5731.1
173°	6109.3
174°	6433.6
175°	6702.4
176°	6918.9
177°	7082.2
178°	7201.1
179°	7283.6
180°	7332.0

(END OF REPORT)