

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: P222136

Luminaire Tested: **9004-W2-FL-LED4097-M-BK-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222136
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-BK-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, MEDIUM FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 4000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3459.3 lumens
Efficiency: N/A
Efficacy: 86.1 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

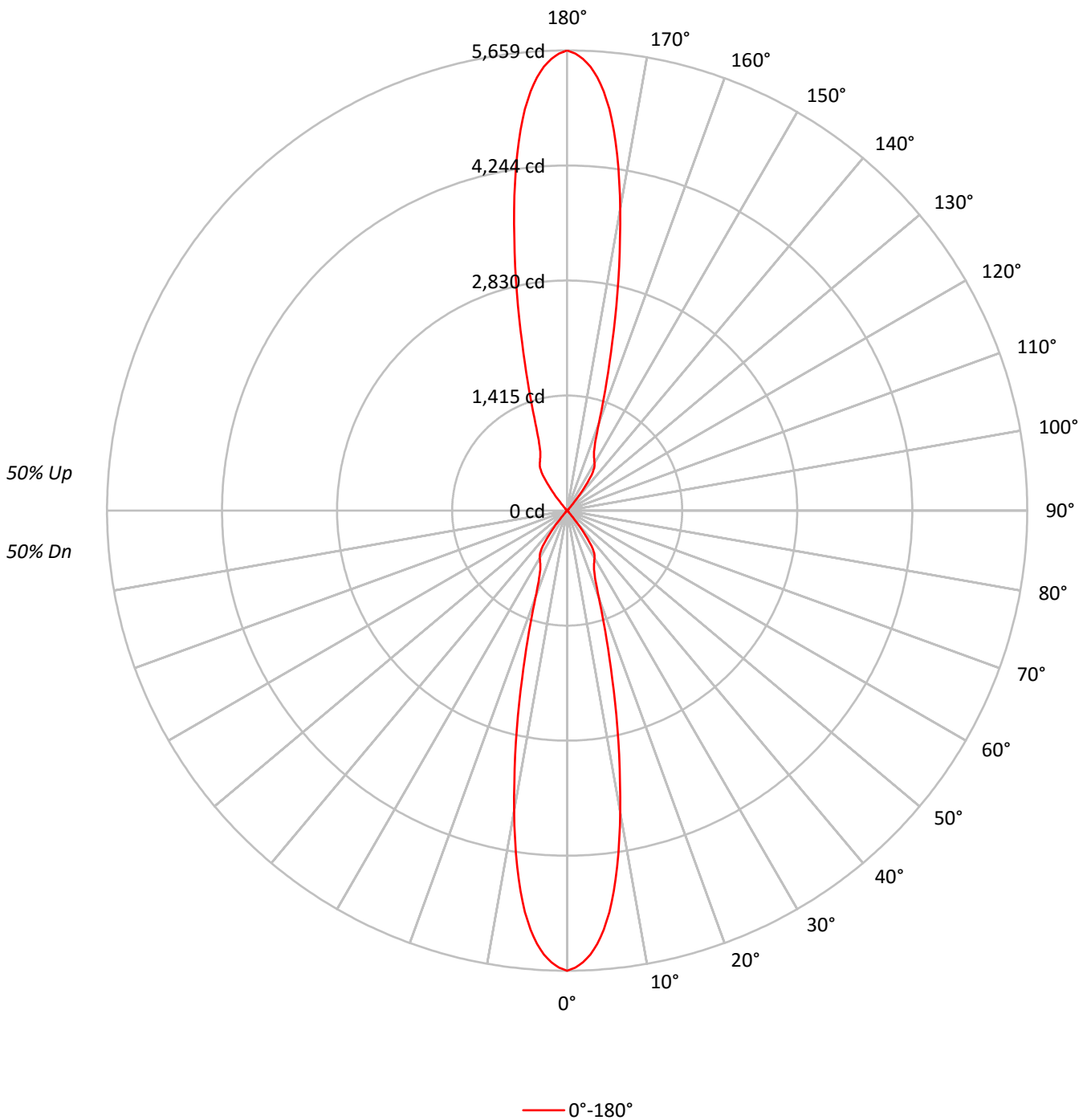
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	698062
5°	640554
10°	470659
15°	273999
20°	149428
25°	106196
30°	95711
35°	75379
40°	16746
45°	4588
50°	1535
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°	448.2	13.0
10°-20°	598.1	17.3
20°-30°	374.0	10.8
30°-40°	277.4	8.0
40°-50°	25.8	0.7
50°-60°	4.1	0.1
60°-70°	1.4	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°	1.4	0.0
120°-130°	4.1	0.1
130°-140°	25.8	0.7
140°-150°	277.4	8.0
150°-160°	374.0	10.8
160°-170°	598.1	17.3
170°-180°	448.2	13.0
0°-30°	1420.3	41.1
0°-40°	1697.7	49.1
0°-60°	1727.7	49.9
0°-90°	1729.7	50.0
90°-120°	2.0	0.1
90°-150°	309.4	8.9
90°-180°	1730.0	50.0
0°-180°	3459.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5659	
5°	5173	448
15°	2146	598
25°	780	374
35°	501	277
45°	26	26
55°	4	4
65°	1	1
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	1	1
125°	4	4
135°	26	26
145°	501	277
155°	780	374
165°	2146	598
175°	5173	448
180°	5659	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5659.4
1°	5622.0
2°	5558.4
3°	5466.6
4°	5340.5
5°	5173.4
6°	4965.9
7°	4715.6
8°	4423.7
9°	4098.1
10°	3757.8
11°	3409.6
12°	3072.3
13°	2743.7
14°	2431.6
15°	2145.7
16°	1885.6
17°	1658.6
18°	1454.8
19°	1282.2
20°	1138.4
21°	1024.5
22°	933.3
23°	866.0
24°	816.4
25°	780.3
26°	753.4
27°	730.1
28°	708.7
29°	690.4
30°	672.0
32.5°	621.2
35°	500.6
37.5°	303.0
40°	104.0
42.5°	36.1
45°	26.3
47.5°	19.0
50°	8.0
52.5°	6.1
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°	1.2
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°	1.2
115°	1.2
117.5°	1.8
120°	2.4
122.5°	3.1
125°	4.3
127.5°	6.1
130°	8.0
132.5°	19.0
135°	26.3
137.5°	36.1
140°	104.0
142.5°	303.0
145°	500.6
147.5°	621.2
150°	672.0
151°	690.4
152°	708.7
153°	730.1
154°	753.4
155°	780.3
156°	816.4
157°	866.0
158°	933.3
159°	1024.5
160°	1138.4
161°	1282.2



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CANDELA DISTRIBUTION (continued):

	0°
162°	1454.8
163°	1658.6
164°	1885.6
165°	2145.7
166°	2431.6
167°	2743.7
168°	3072.3
169°	3409.6
170°	3757.8
171°	4098.1
172°	4423.7
173°	4715.6
174°	4965.9
175°	5173.4
176°	5340.5
177°	5466.6
178°	5558.4
179°	5622.0
180°	5659.4

(END OF REPORT)