

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: P221902

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221902
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29491)
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-S-BK-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, SPOT OPTIC, BLACK HOUSING.
Light Source: (1) 4000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3038.0 lumens
Efficiency: N/A
Efficacy: 75.6 lumens/watt
Spacing Criteria (0/90/45): 0.27 / 0.27 / 0.27
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

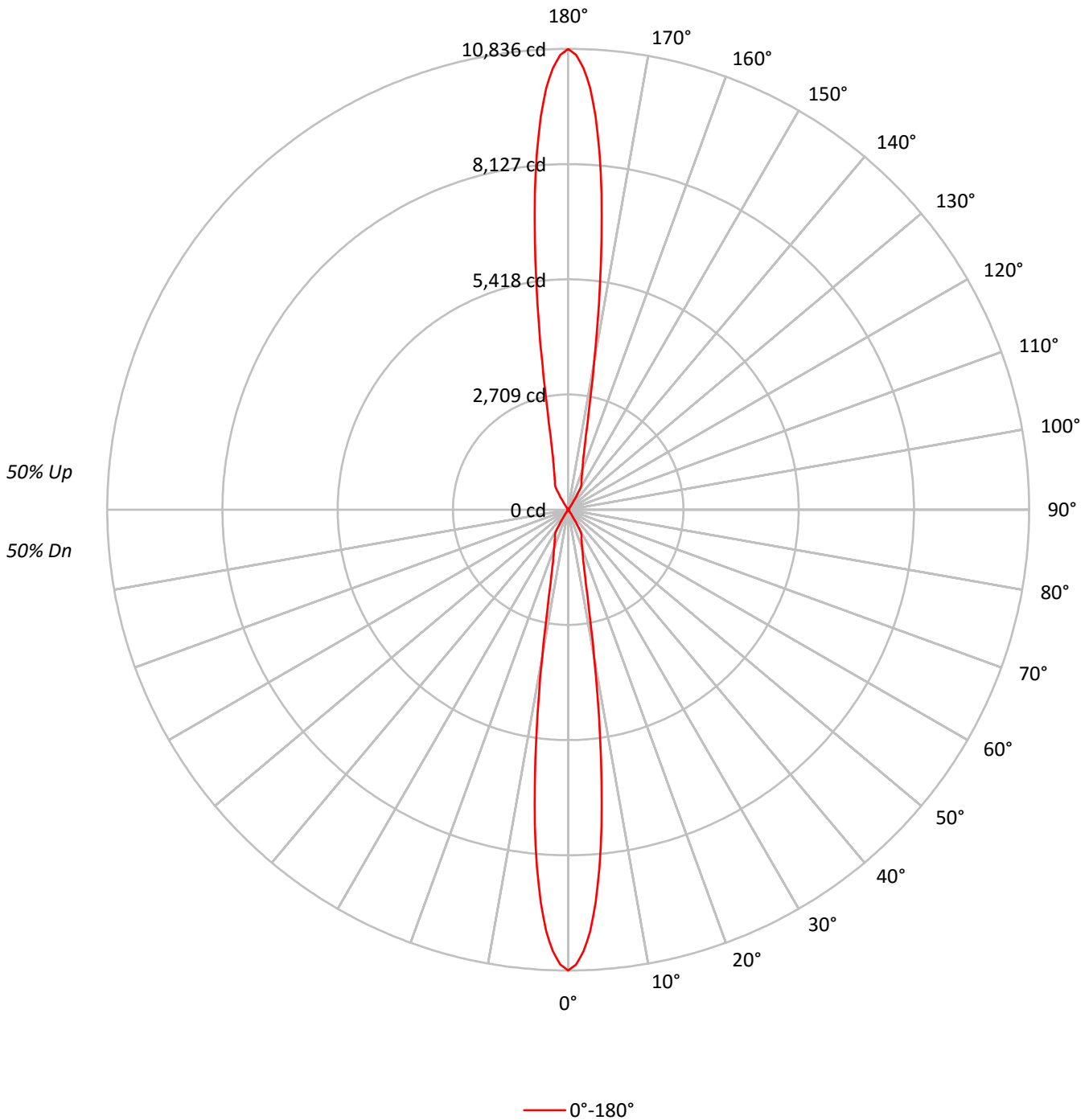
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P221902

CATALOG NUMBER: 9004-W2-[RW, RI]-LED4097-S-BK-L2-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P221902

CATALOG NUMBER: 9004-W2-[RW, RI]-LED4097-S-BK-L2-UNV

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	98	95	93	93	91	88	86	78	76	75	65	65	64	54	54	53	48
2	95	90	86	82	88	84	80	77	73	70	68	62	61	59	53	52	51	47
3	90	83	78	74	83	78	74	70	68	65	63	59	57	56	51	50	49	45
4	85	77	72	68	79	73	68	64	64	61	58	57	54	53	49	48	47	44
5	81	72	67	62	75	68	63	60	61	57	55	54	52	50	48	46	45	42
6	77	68	62	58	72	65	60	56	58	54	52	52	49	48	46	45	43	41
7	73	64	58	54	69	61	56	53	55	52	49	50	47	45	45	43	42	40
8	70	61	55	51	66	58	53	50	53	49	47	48	46	44	44	42	41	39
9	67	58	52	49	63	56	51	47	51	47	45	47	44	42	42	41	39	38
10	64	55	50	47	61	53	48	45	49	45	43	45	42	41	41	40	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1336549
5°	1044221
10°	439847
15°	186399
20°	126208
25°	100208
30°	74176
35°	6731
40°	2464
45°	750
50°	595
55°	667
60°	444
65°	350
70°	216
75°	286
80°	426
85°	0



TEST NUMBER: P221902

CATALOG NUMBER: 9004-W2-[RW, RI]-LED4097-S-BK-L2-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	634.9	20.9
10°-20°	448.6	14.8
20°-30°	342.5	11.3
30°-40°	84.0	2.8
40°-50°	4.5	0.1
50°-60°	2.5	0.1
60°-70°	1.2	0.0
70°-80°	0.6	0.0
80°-90°	0.2	0.0
90°-100°	0.4	0.0
100°-110°	0.6	0.0
110°-120°	1.2	0.0
120°-130°	2.5	0.1
130°-140°	4.5	0.1
140°-150°	84.0	2.8
150°-160°	342.5	11.3
160°-170°	448.6	14.8
170°-180°	634.9	20.9
0°-30°	1426.0	46.9
0°-40°	1509.9	49.7
0°-60°	1516.9	49.9
0°-90°	1519.0	50.0
90°-120°	2.2	0.1
90°-150°	93.2	3.1
90°-180°	1519.0	50.0
0°-180°	3038.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10836	
5°	8434	635
15°	1460	449
25°	736	343
35°	45	84
45°	4	5
55°	3	2
65°	1	1
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	1	1
125°	3	2
135°	4	5
145°	45	84
155°	736	343
165°	1460	449
175°	8434	635
180°	10836	



TEST NUMBER: P221902

CATALOG NUMBER: 9004-W2-[RW, RI]-LED4097-S-BK-L2-UNV

CANDELA DISTRIBUTION (FULL):

	0°
0°	10835.8
1°	10696.9
2°	10390.9
3°	9921.4
4°	9264.1
5°	8433.6
6°	7478.9
7°	6429.9
8°	5373.5
9°	4406.5
10°	3511.8
11°	2803.0
12°	2284.1
13°	1916.8
14°	1655.5
15°	1459.7
16°	1309.1
17°	1199.6
18°	1112.7
19°	1031.3
20°	961.5
22.5°	829.3
25°	736.3
26°	711.2
27°	690.4
28°	669.5
29°	614.5
30°	520.8
32.5°	234.4
35°	44.7
37.5°	24.5
40°	15.3
42.5°	6.7
45°	4.3
47.5°	3.7
50°	3.1
52.5°	3.1
55°	3.1
57.5°	2.4
60°	1.8
62.5°	1.8
65°	1.2
67.5°	0.6
70°	0.6
72.5°	0.6



TEST NUMBER: P221902

CATALOG NUMBER: 9004-W2-[RW, RI]-LED4097-S-BK-L2-UNV

CANDELA DISTRIBUTION (continued):

	0°
75°	0.6
77.5°	0.6
80°	0.6
82.5°	0.6
85°	0.0
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.6
100°	0.6
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°	1.8
122.5°	2.4
125°	3.1
127.5°	3.1
130°	3.1
132.5°	3.7
135°	4.3
137.5°	6.7
140°	15.3
142.5°	24.5
145°	44.7
147.5°	234.4
150°	520.8
151°	614.5
152°	669.5
153°	690.4
154°	711.2
155°	736.3
157.5°	829.3
160°	961.5
161°	1031.3
162°	1112.7
163°	1199.6
164°	1309.1
165°	1459.7
166°	1655.5
167°	1916.8



TEST NUMBER: P221902

CATALOG NUMBER: 9004-W2-[RW, RI]-LED4097-S-BK-L2-UNV

CANDELA DISTRIBUTION (continued):

	0°
168°	2284.1
169°	2803.0
170°	3511.8
171°	4406.5
172°	5373.5
173°	6429.9
174°	7478.9
175°	8433.6
176°	9264.1
177°	9921.4
178°	10390.9
179°	10696.9
180°	10835.8

(END OF REPORT)