

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: P221806

Luminaire Tested: **9004-W2-[RW, RI]-LED3097-S-BK-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221806
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]-LED3097-S-BK-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, SPOT OPTIC, BLACK HOUSING.
Light Source: (1) 3000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2704.2 lumens
Efficiency: N/A
Efficacy: 67.3 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

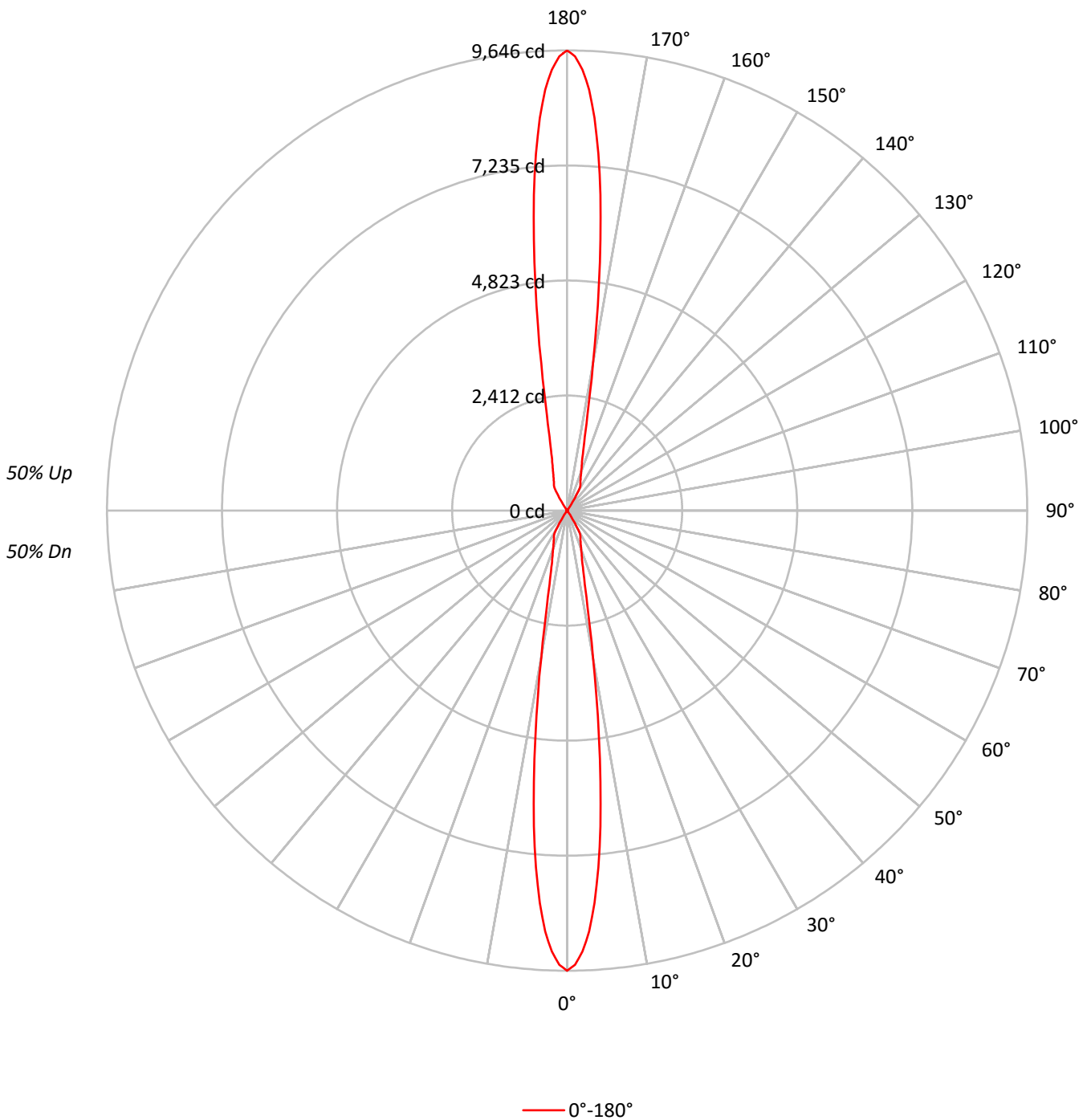
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1189792
5°	929567
10°	391552
15°	165929
20°	112347
25°	89198
30°	66029
35°	5993
40°	2190
45°	663
50°	518
55°	581
60°	395
65°	321
70°	180
75°	238
80°	355
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	565.1	20.9
10°-20°	399.3	14.8
20°-30°	304.9	11.3
30°-40°	74.8	2.8
40°-50°	4.0	0.1
50°-60°	2.2	0.1
60°-70°	1.0	0.0
70°-80°	0.5	0.0
80°-90°	0.2	0.0
90°-100°	0.3	0.0
100°-110°	0.5	0.0
110°-120°	1.0	0.0
120°-130°	2.2	0.1
130°-140°	4.0	0.1
140°-150°	74.8	2.8
150°-160°	304.9	11.3
160°-170°	399.3	14.8
170°-180°	565.1	20.9
0°-30°	1269.4	46.9
0°-40°	1344.1	49.7
0°-60°	1350.3	49.9
0°-90°	1352.1	50.0
90°-120°	1.9	0.1
90°-150°	82.9	3.1
90°-180°	1352.0	50.0
0°-180°	2704.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9646	
5°	7508	565
15°	1299	399
25°	655	305
35°	40	75
45°	4	4
55°	3	2
65°	1	1
75°	0	1
85°	0	0
90°	0	0
95°	0	0
105°	0	1
115°	1	1
125°	3	2
135°	4	4
145°	40	75
155°	655	305
165°	1299	399
175°	7508	565
180°	9646	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	9646.0
1°	9522.3
2°	9249.9
3°	8832.0
4°	8246.9
5°	7507.6
6°	6657.7
7°	5723.8
8°	4783.5
9°	3922.7
10°	3126.2
11°	2495.3
12°	2033.3
13°	1706.4
14°	1473.7
15°	1299.4
16°	1165.4
17°	1067.8
18°	990.5
19°	918.0
20°	855.9
22.5°	738.2
25°	655.4
26°	633.1
27°	614.6
28°	596.0
29°	547.0
30°	463.6
32.5°	208.7
35°	39.8
37.5°	21.8
40°	13.6
42.5°	6.0
45°	3.8
47.5°	3.3
50°	2.7
52.5°	2.7
55°	2.7
57.5°	2.2
60°	1.6
62.5°	1.6
65°	1.1
67.5°	0.5
70°	0.5
72.5°	0.5



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CANDELA DISTRIBUTION (continued):

	0°
75°	0.5
77.5°	0.5
80°	0.5
82.5°	0.5
85°	0.0
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.5
100°	0.5
102.5°	0.5
105°	0.5
107.5°	0.5
110°	0.5
112.5°	0.5
115°	1.1
117.5°	1.6
120°	1.6
122.5°	2.2
125°	2.7
127.5°	2.7
130°	2.7
132.5°	3.3
135°	3.8
137.5°	6.0
140°	13.6
142.5°	21.8
145°	39.8
147.5°	208.7
150°	463.6
151°	547.0
152°	596.0
153°	614.6
154°	633.1
155°	655.4
157.5°	738.2
160°	855.9
161°	918.0
162°	990.5
163°	1067.8
164°	1165.4
165°	1299.4
166°	1473.7
167°	1706.4



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CANDELA DISTRIBUTION (continued):

	0°
168°	2033.3
169°	2495.3
170°	3126.2
171°	3922.7
172°	4783.5
173°	5723.8
174°	6657.7
175°	7507.6
176°	8246.9
177°	8832.0
178°	9249.9
179°	9522.3
180°	9646.0

(END OF REPORT)