

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: P222046

Luminaire Tested: **9004-W2-FL-LED3097-S-BK-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222046
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29496)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9004-W2-FL-LED3097-S-BK-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH 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: 3052.3 lumens
Efficiency: N/A
Efficacy: 75.9 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

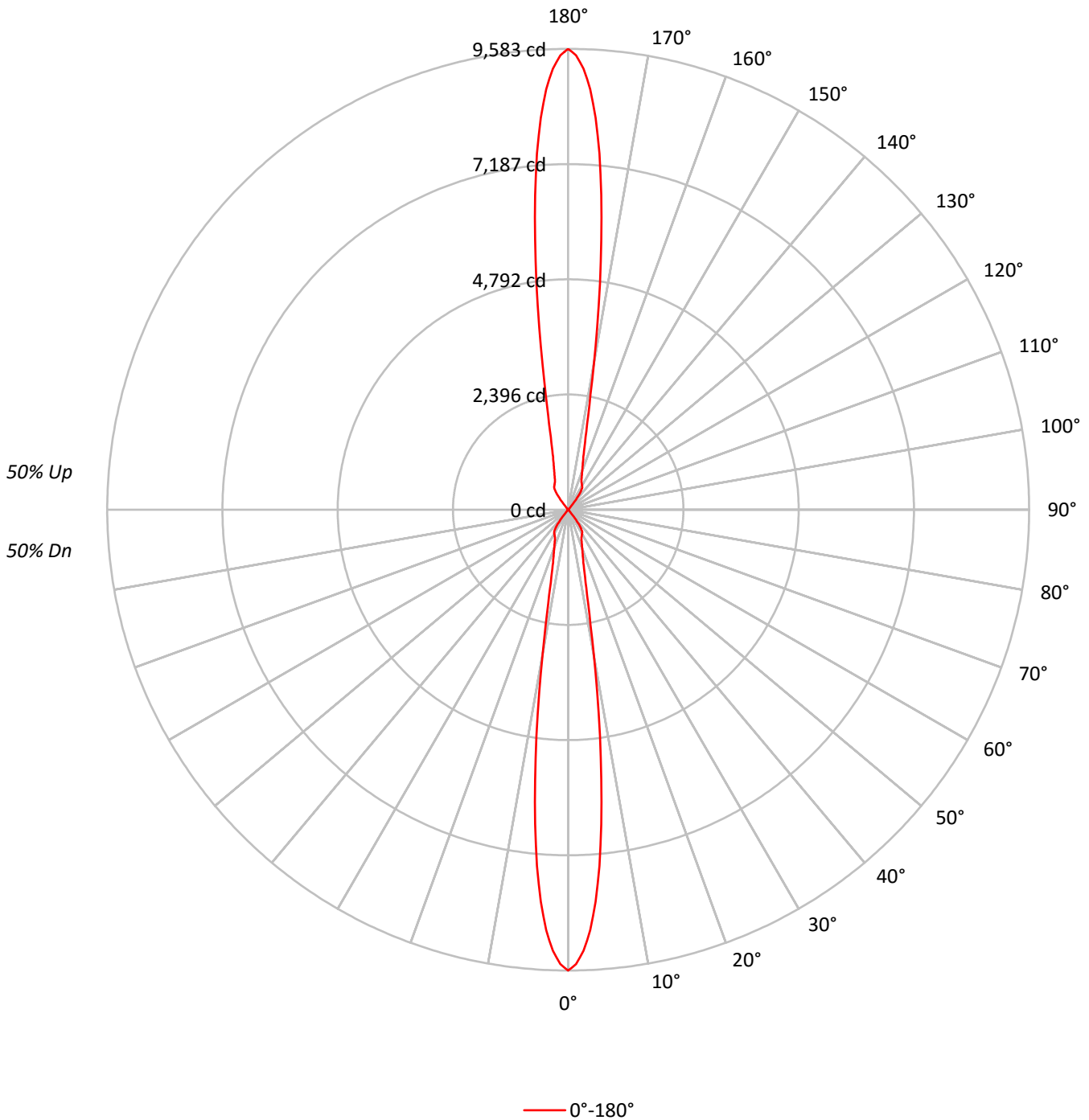
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	95	92	93	90	88	86	77	76	74		65	64	63		54	54	53	48
2	95	89	85	81	88	83	80	76	72	69	67		62	60	58		52	51	50	46
3	89	82	77	73	83	77	72	69	67	64	62		58	56	54		50	49	48	44
4	84	76	70	66	78	72	67	63	63	60	57		55	53	51		48	46	45	42
5	79	71	65	60	74	67	62	58	59	56	53		53	50	48		46	44	43	40
6	75	66	60	56	70	63	58	54	56	52	49		50	47	45		44	43	41	39
7	71	62	56	52	67	59	54	50	53	49	47		48	45	43		43	41	40	37
8	68	59	53	49	64	56	51	47	51	47	44		46	43	41		41	39	38	36
9	65	56	50	46	61	53	48	45	48	45	42		44	41	39		40	38	37	35
10	62	53	47	44	59	51	46	42	46	43	40		42	40	38		39	37	35	34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1182058
5°	920120
10°	383223
15°	162034
20°	111205
25°	88749
30°	82024
35°	67112
40°	14121
45°	3227
50°	1151
55°	946
60°	543
65°	321
70°	180
75°	238
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	558.5	18.3
10°-20°	391.4	12.8
20°-30°	308.5	10.1
30°-40°	242.9	8.0
40°-50°	19.6	0.6
50°-60°	3.8	0.1
60°-70°	1.0	0.0
70°-80°	0.5	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.5	0.0
110°-120°	1.0	0.0
120°-130°	3.8	0.1
130°-140°	19.6	0.6
140°-150°	242.9	8.0
150°-160°	308.5	10.1
160°-170°	391.4	12.8
170°-180°	558.5	18.3
0°-30°	1258.4	41.2
0°-40°	1501.2	49.2
0°-60°	1524.7	50.0
0°-90°	1526.2	50.0
90°-120°	1.5	0.0
90°-150°	267.8	8.8
90°-180°	1526.0	50.0
0°-180°	3052.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9583	
5°	7431	558
15°	1269	391
25°	652	308
35°	446	243
45°	18	20
55°	4	4
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	1	1
125°	4	4
135°	18	20
145°	446	243
155°	652	308
165°	1269	391
175°	7431	558
180°	9583	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	9583.3
1°	9451.5
2°	9177.4
3°	8752.5
4°	8171.2
5°	7431.3
6°	6577.0
7°	5654.1
8°	4748.6
9°	3837.1
10°	3059.7
11°	2439.1
12°	1989.1
13°	1670.4
14°	1439.4
15°	1268.9
16°	1140.8
17°	1047.1
18°	975.8
19°	907.7
20°	847.2
21°	797.1
22°	752.4
23°	713.2
24°	678.8
25°	652.1
26°	632.0
27°	616.7
28°	602.0
29°	588.9
30°	575.9
32.5°	543.2
35°	445.7
37.5°	265.9
40°	87.7
42.5°	26.2
45°	18.5
47.5°	13.1
50°	6.0
52.5°	5.4
55°	4.4
57.5°	3.3
60°	2.2
62.5°	1.1
65°	1.1



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.5
70°	0.5
72.5°	0.5
75°	0.5
77.5°	0.5
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°	0.5
105°	0.5
107.5°	0.5
110°	0.5
112.5°	0.5
115°	1.1
117.5°	1.1
120°	2.2
122.5°	3.3
125°	4.4
127.5°	5.4
130°	6.0
132.5°	13.1
135°	18.5
137.5°	26.2
140°	87.7
142.5°	265.9
145°	445.7
147.5°	543.2
150°	575.9
151°	588.9
152°	602.0
153°	616.7
154°	632.0
155°	652.1
156°	678.8
157°	713.2
158°	752.4
159°	797.1
160°	847.2
161°	907.7



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CANDELA DISTRIBUTION (continued):

	0°
162°	975.8
163°	1047.1
164°	1140.8
165°	1268.9
166°	1439.4
167°	1670.4
168°	1989.1
169°	2439.1
170°	3059.7
171°	3837.1
172°	4748.6
173°	5654.1
174°	6577.0
175°	7431.3
176°	8171.2
177°	8752.5
178°	9177.4
179°	9451.5
180°	9583.3

(END OF REPORT)