

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: P221800

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221800
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29492)
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-M-BK-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, MEDIUM FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2696.5 lumens
Efficiency: N/A
Efficacy: 67.1 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

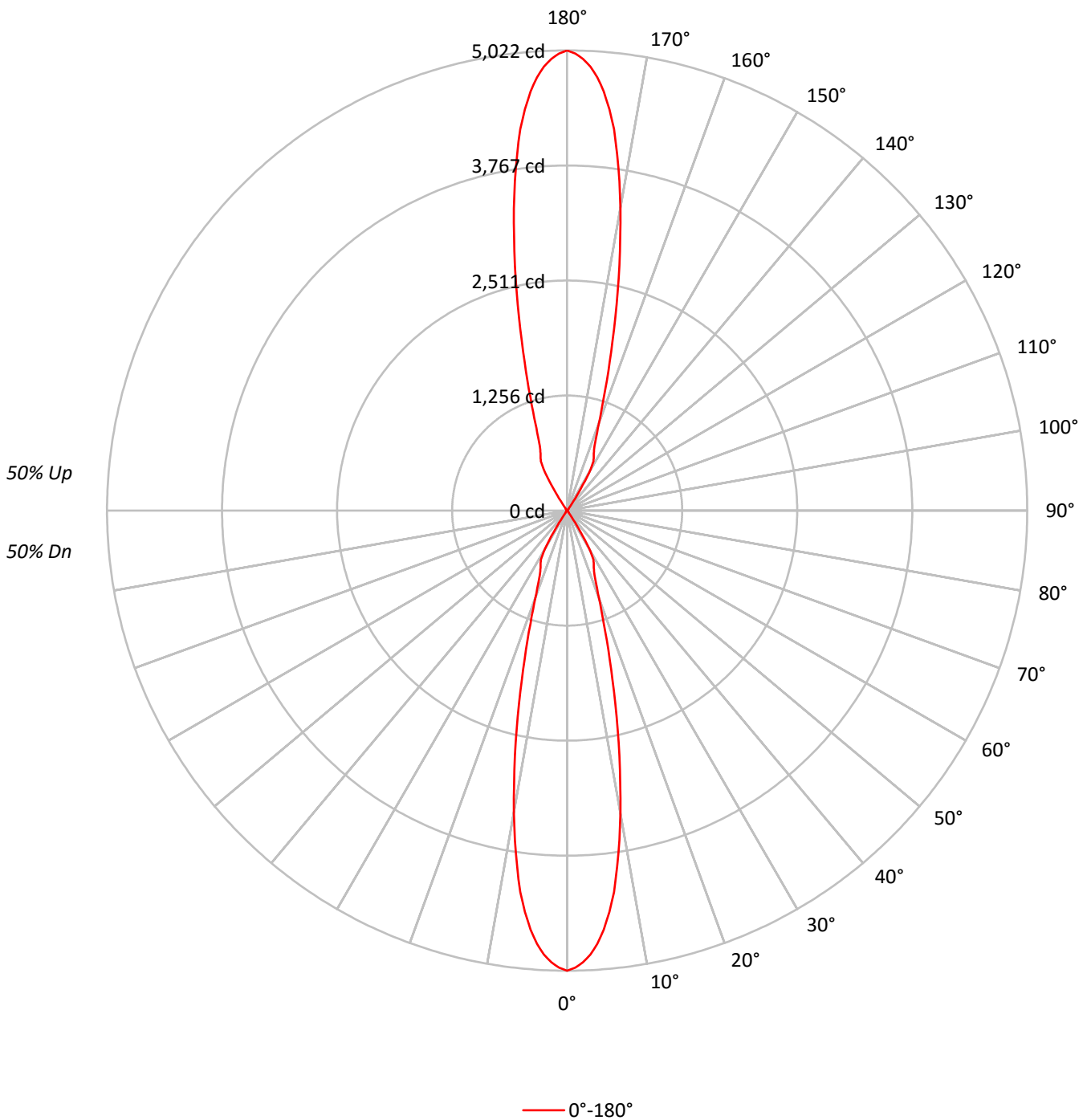
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	95	92	93	91	88	86	77	76	74		65	64	63		54	54	53	48
2	95	89	85	81	88	83	80	77	72	70	67		62	60	59		52	51	50	46
3	89	82	77	73	83	77	73	69	68	64	62		59	57	55		50	49	48	44
4	84	76	71	66	79	72	67	63	64	60	57		56	53	51		48	47	46	43
5	80	71	65	61	75	67	62	58	60	56	53		53	51	49		47	45	44	41
6	76	67	61	57	71	63	58	54	57	53	50		51	48	46		45	43	42	40
7	72	63	57	53	68	60	55	51	54	50	47		49	46	44		43	42	40	38
8	68	59	53	50	64	57	51	48	51	48	45		47	44	42		42	40	39	37
9	65	56	51	47	62	54	49	45	49	45	43		45	42	40		41	39	37	36
10	62	53	48	44	59	51	46	43	47	43	41		43	40	38		39	37	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	619454
5°	568331
10°	419319
15°	244756
20°	132732
25°	93798
30°	67981
35°	8447
40°	2898
45°	1134
50°	729
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°	398.0	14.8
10°-20°	533.7	19.8
20°-30°	323.8	12.0
30°-40°	82.8	3.1
40°-50°	5.9	0.2
50°-60°	2.4	0.1
60°-70°	1.0	0.0
70°-80°	0.5	0.0
80°-90°	0.1	0.0
90°-100°	0.1	0.0
100°-110°	0.5	0.0
110°-120°	1.0	0.0
120°-130°	2.4	0.1
130°-140°	5.9	0.2
140°-150°	82.8	3.1
150°-160°	323.8	12.0
160°-170°	533.7	19.8
170°-180°	398.0	14.8
0°-30°	1255.5	46.6
0°-40°	1338.3	49.6
0°-60°	1346.6	49.9
0°-90°	1348.3	50.0
90°-120°	1.6	0.1
90°-150°	92.8	3.4
90°-180°	1348.0	50.0
0°-180°	2696.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5022	
5°	4590	398
15°	1917	534
25°	689	324
35°	56	83
45°	6	6
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°	6	6
145°	56	83
155°	689	324
165°	1917	534
175°	4590	398
180°	5022	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5022.1
1°	4990.0
2°	4932.8
3°	4851.1
4°	4739.4
5°	4590.1
6°	4403.8
7°	4194.0
8°	3926.0
9°	3639.9
10°	3347.9
11°	3040.6
12°	2738.8
13°	2450.0
14°	2172.7
15°	1916.7
16°	1687.8
17°	1481.4
18°	1297.2
19°	1141.9
20°	1011.2
21°	908.2
22°	826.5
23°	766.0
24°	723.0
25°	689.2
26°	662.0
27°	638.5
28°	610.7
29°	560.1
30°	477.3
32.5°	227.2
35°	56.1
37.5°	30.5
40°	18.0
42.5°	8.2
45°	6.5
47.5°	5.4
50°	3.8
52.5°	3.3
55°	2.7
57.5°	2.2
60°	1.6
62.5°	1.6
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°	0.5
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°	0.5
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°	3.3
130°	3.8
132.5°	5.4
135°	6.5
137.5°	8.2
140°	18.0
142.5°	30.5
145°	56.1
147.5°	227.2
150°	477.3
151°	560.1
152°	610.7
153°	638.5
154°	662.0
155°	689.2
156°	723.0
157°	766.0
158°	826.5
159°	908.2
160°	1011.2
161°	1141.9



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CANDELA DISTRIBUTION (continued):

	0°
162°	1297.2
163°	1481.4
164°	1687.8
165°	1916.7
166°	2172.7
167°	2450.0
168°	2738.8
169°	3040.6
170°	3347.9
171°	3639.9
172°	3926.0
173°	4194.0
174°	4403.8
175°	4590.1
176°	4739.4
177°	4851.1
178°	4932.8
179°	4990.0
180°	5022.1

(END OF REPORT)