

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: P221890

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221890
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29493)
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-F-BK-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 4000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3074.1 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.56
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

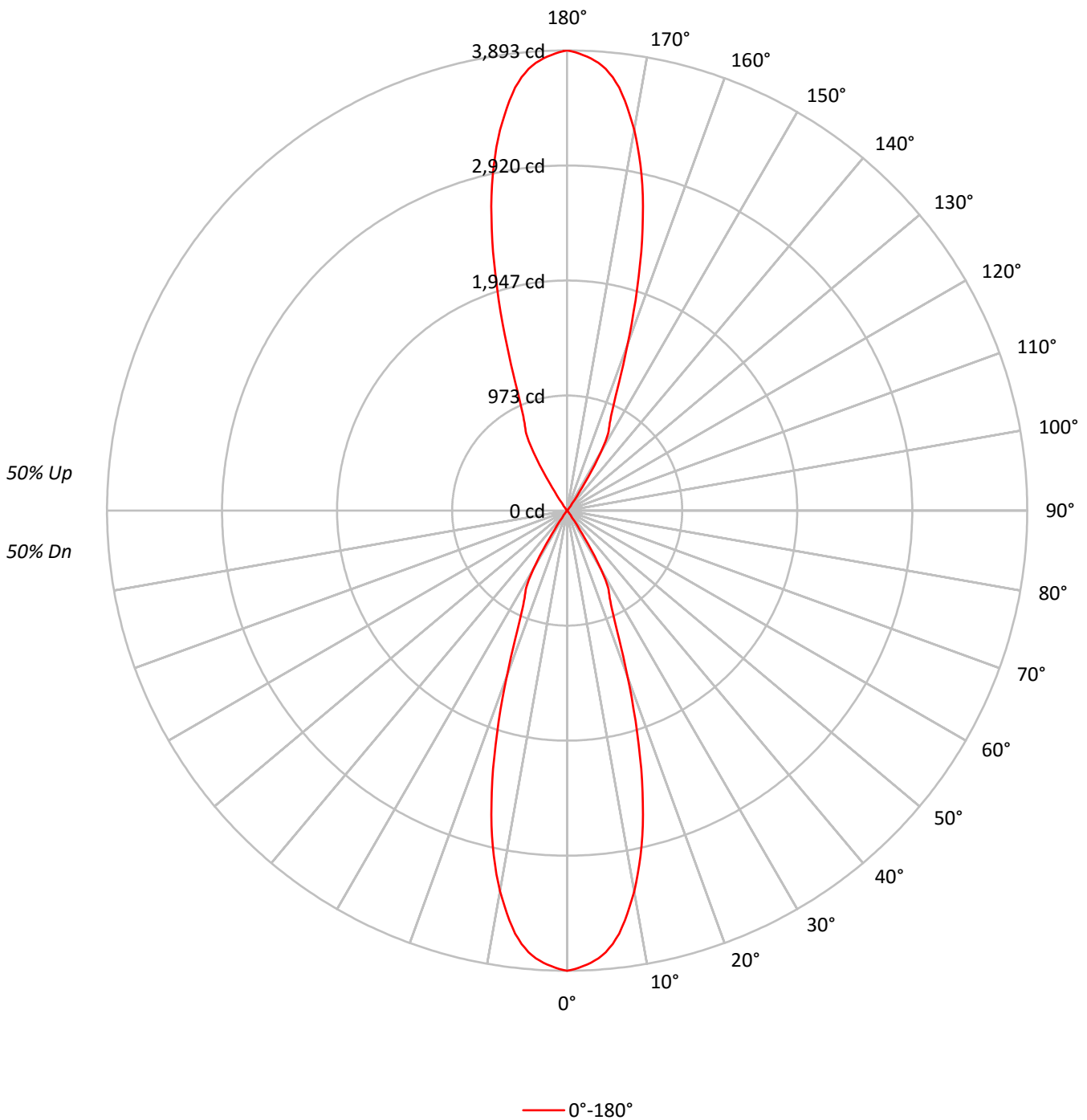
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	53	53	48				
2	95	89	85	81	88	83	79	76	72	69	67	61	60	58	52	51	50	46				
3	89	82	77	73	83	77	72	69	67	64	61	58	56	54	50	49	47	44				
4	84	76	70	66	78	71	66	63	63	59	57	55	53	51	48	46	45	42				
5	79	71	65	60	74	67	61	58	59	55	53	52	50	48	46	44	43	40				
6	75	66	60	55	70	62	57	53	56	52	49	50	47	45	44	42	41	38				
7	71	62	56	52	67	59	53	50	53	49	46	48	45	43	42	41	39	37				
8	68	58	52	48	64	55	50	47	50	46	44	45	43	40	41	39	37	35				
9	64	55	49	45	61	52	47	44	48	44	41	43	41	39	39	37	36	34				
10	61	52	46	43	58	50	45	41	46	42	39	42	39	37	38	36	35	33				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	480197
5°	464288
10°	409412
15°	315194
20°	195541
25°	119616
30°	81411
35°	10781
40°	3059
45°	750
50°	595
55°	387
60°	296
65°	350
70°	216
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.5	11.1
10°-20°	662.1	21.5
20°-30°	424.6	13.8
30°-40°	100.1	3.3
40°-50°	4.7	0.2
50°-60°	1.8	0.1
60°-70°	1.0	0.0
70°-80°	0.2	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.4	0.0
110°-120°	1.0	0.0
120°-130°	1.8	0.1
130°-140°	4.7	0.2
140°-150°	100.1	3.3
150°-160°	424.6	13.8
160°-170°	662.1	21.5
170°-180°	342.5	11.1
0°-30°	1429.2	46.5
0°-40°	1529.3	49.7
0°-60°	1535.9	50.0
0°-90°	1537.1	50.0
90°-120°	1.4	0.0
90°-150°	108.0	3.5
90°-180°	1537.0	50.0
0°-180°	3074.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3893	
5°	3750	343
15°	2468	662
25°	879	425
35°	72	100
45°	4	5
55°	2	2
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	1	1
125°	2	2
135°	4	5
145°	72	100
155°	879	425
165°	2468	662
175°	3750	343
180°	3893	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3893.1
1°	3879.0
2°	3856.3
3°	3830.6
4°	3797.0
5°	3749.8
6°	3686.8
7°	3606.6
8°	3502.6
9°	3389.4
10°	3268.8
11°	3132.3
12°	2986.0
13°	2827.5
14°	2651.9
15°	2468.3
16°	2273.7
17°	2072.3
18°	1871.6
19°	1676.9
20°	1489.7
21°	1323.2
22°	1174.5
23°	1049.6
24°	954.8
25°	878.9
26°	821.9
27°	777.9
28°	738.7
29°	672.0
30°	571.6
32.5°	273.0
35°	71.6
37.5°	37.9
40°	19.0
42.5°	6.1
45°	4.3
47.5°	3.7
50°	3.1
52.5°	2.4
55°	1.8
57.5°	1.8
60°	1.2
62.5°	1.2
65°	1.2



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.6
70°	0.6
72.5°	0.6
75°	0.0
77.5°	0.0
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°	0.0
105°	0.0
107.5°	0.6
110°	0.6
112.5°	0.6
115°	1.2
117.5°	1.2
120°	1.2
122.5°	1.8
125°	1.8
127.5°	2.4
130°	3.1
132.5°	3.7
135°	4.3
137.5°	6.1
140°	19.0
142.5°	37.9
145°	71.6
147.5°	273.0
150°	571.6
151°	672.0
152°	738.7
153°	777.9
154°	821.9
155°	878.9
156°	954.8
157°	1049.6
158°	1174.5
159°	1323.2
160°	1489.7
161°	1676.9



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CANDELA DISTRIBUTION (continued):

	0°
162°	1871.6
163°	2072.3
164°	2273.7
165°	2468.3
166°	2651.9
167°	2827.5
168°	2986.0
169°	3132.3
170°	3268.8
171°	3389.4
172°	3502.6
173°	3606.6
174°	3686.8
175°	3749.8
176°	3797.0
177°	3830.6
178°	3856.3
179°	3879.0
180°	3893.1

(END OF REPORT)