

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: P221896

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221896
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]-LED4097-M-BK-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, MEDIUM FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 4000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3029.3 lumens
Efficiency: N/A
Efficacy: 75.4 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

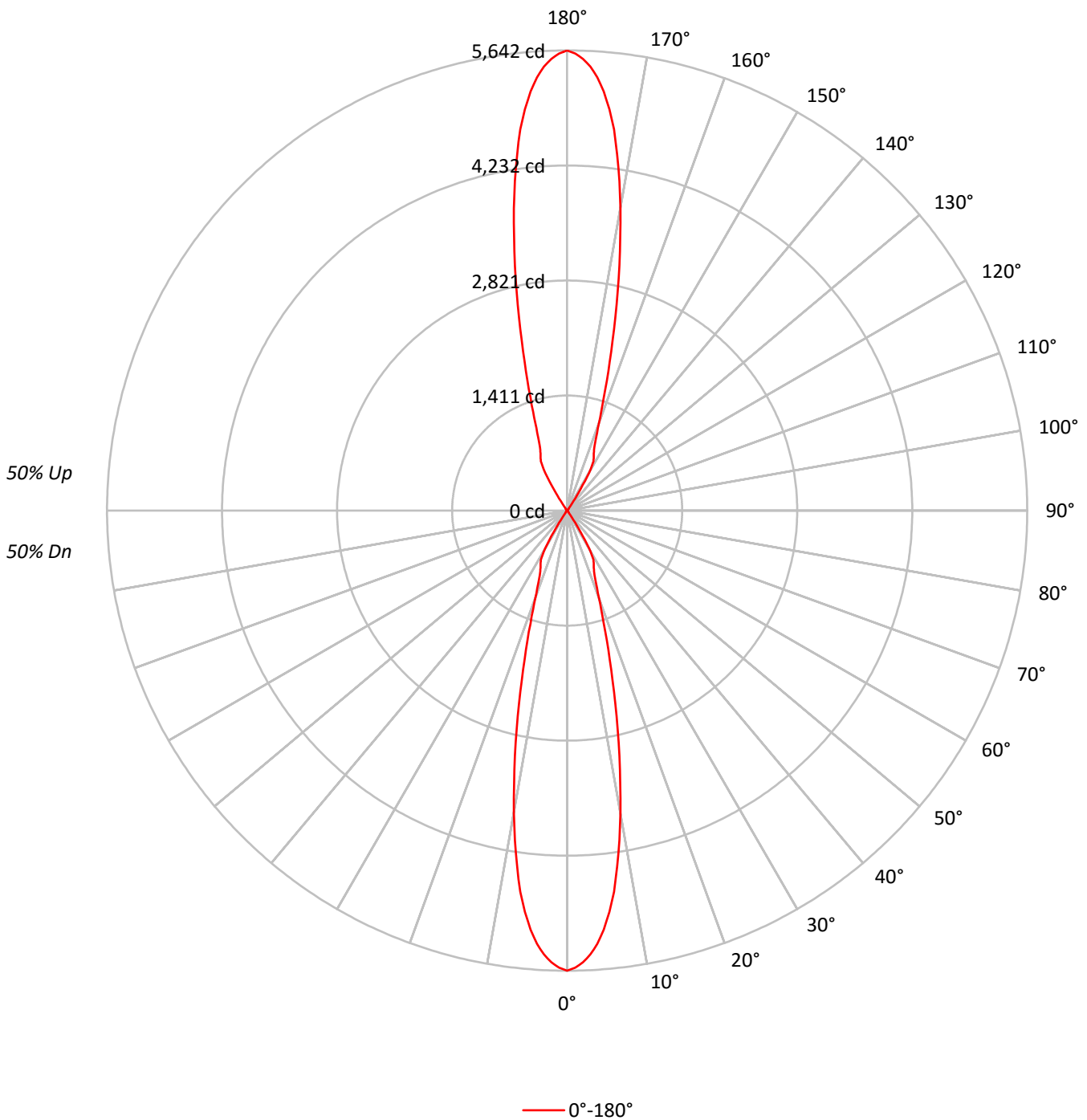
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	695867
5°	638437
10°	471047
15°	274944
20°	149100
25°	105366
30°	76355
35°	9486
40°	3253
45°	1273
50°	825
55°	667
60°	444
65°	350
70°	216
75°	286
80°	426
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.1	14.8
10°-20°	599.6	19.8
20°-30°	363.7	12.0
30°-40°	93.1	3.1
40°-50°	6.6	0.2
50°-60°	2.7	0.1
60°-70°	1.2	0.0
70°-80°	0.6	0.0
80°-90°	0.1	0.0
90°-100°	0.1	0.0
100°-110°	0.6	0.0
110°-120°	1.2	0.0
120°-130°	2.7	0.1
130°-140°	6.6	0.2
140°-150°	93.1	3.1
150°-160°	363.7	12.0
160°-170°	599.6	19.8
170°-180°	447.1	14.8
0°-30°	1410.3	46.6
0°-40°	1503.4	49.6
0°-60°	1512.7	49.9
0°-90°	1514.6	50.0
90°-120°	1.9	0.1
90°-150°	104.3	3.4
90°-180°	1515.0	50.0
0°-180°	3029.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5642	
5°	5156	447
15°	2153	600
25°	774	364
35°	63	93
45°	7	7
55°	3	3
65°	1	1
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	1	1
125°	3	3
135°	7	7
145°	63	93
155°	774	364
165°	2153	600
175°	5156	447
180°	5642	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5641.6
1°	5605.5
2°	5541.2
3°	5449.4
4°	5324.0
5°	5156.3
6°	4947.0
7°	4711.3
8°	4410.2
9°	4088.9
10°	3760.9
11°	3415.7
12°	3076.6
13°	2752.3
14°	2440.7
15°	2153.1
16°	1896.0
17°	1664.1
18°	1457.2
19°	1282.8
20°	1135.9
21°	1020.2
22°	928.4
23°	860.5
24°	812.2
25°	774.2
26°	743.6
27°	717.3
28°	686.1
29°	629.2
30°	536.1
32.5°	255.2
35°	63.0
37.5°	34.3
40°	20.2
42.5°	9.2
45°	7.3
47.5°	6.1
50°	4.3
52.5°	3.7
55°	3.1
57.5°	2.4
60°	1.8
62.5°	1.8
65°	1.2



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.6
70°	0.6
72.5°	0.6
75°	0.6
77.5°	0.6
80°	0.6
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°	0.6
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°	3.7
130°	4.3
132.5°	6.1
135°	7.3
137.5°	9.2
140°	20.2
142.5°	34.3
145°	63.0
147.5°	255.2
150°	536.1
151°	629.2
152°	686.1
153°	717.3
154°	743.6
155°	774.2
156°	812.2
157°	860.5
158°	928.4
159°	1020.2
160°	1135.9
161°	1282.8



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CANDELA DISTRIBUTION (continued):

	0°
162°	1457.2
163°	1664.1
164°	1896.0
165°	2153.1
166°	2440.7
167°	2752.3
168°	3076.6
169°	3415.7
170°	3760.9
171°	4088.9
172°	4410.2
173°	4711.3
174°	4947.0
175°	5156.3
176°	5324.0
177°	5449.4
178°	5541.2
179°	5605.5
180°	5641.6

(END OF REPORT)