

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: P221897

Luminaire Tested: **9004-W2-[RW, RI]-LED4097-M-BK-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221897
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-L3-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: 3924.8 lumens
Efficiency: N/A
Efficacy: 68.9 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

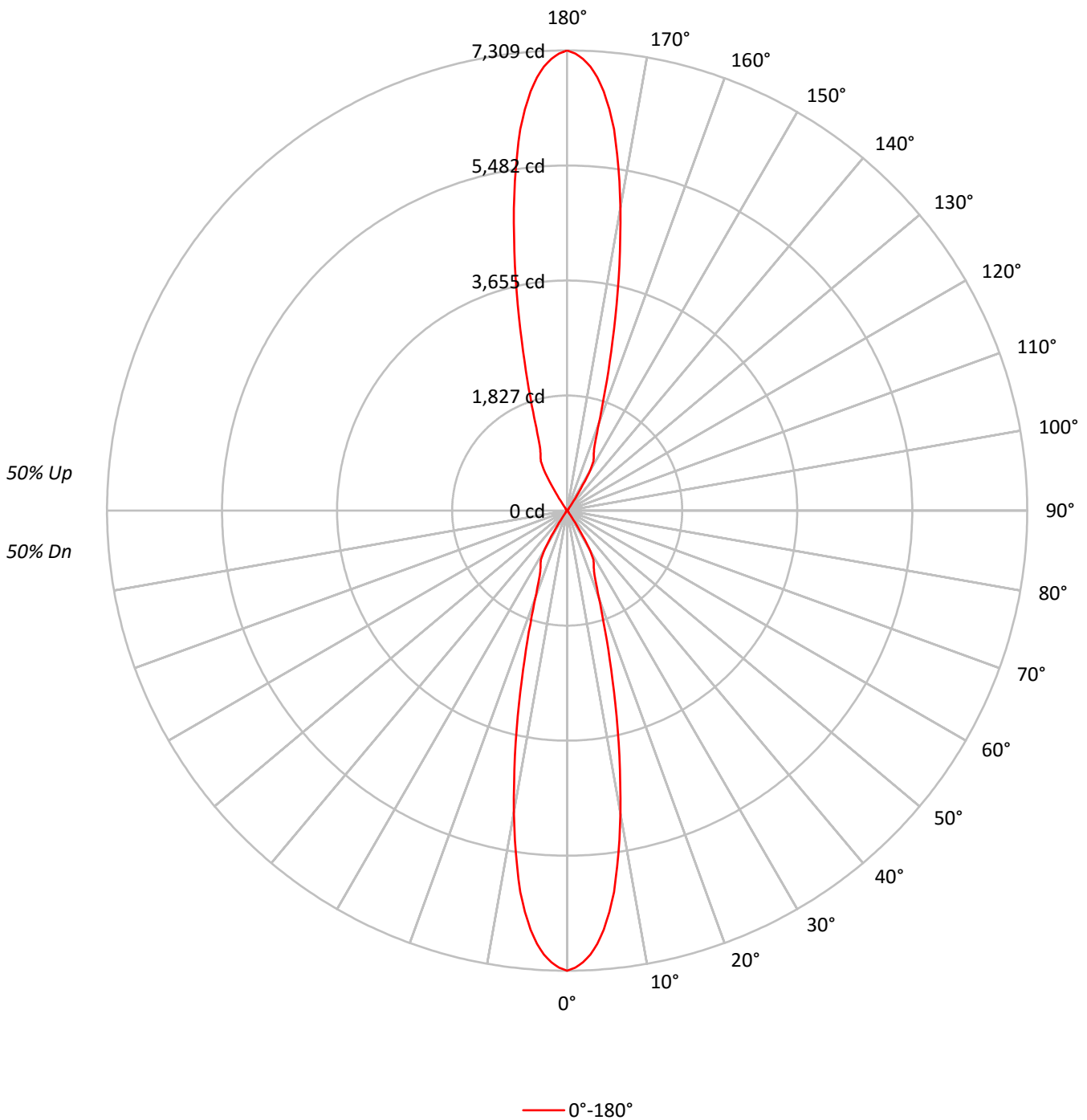
Input Watts (W): 57
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	901533
5°	827121
10°	610260
15°	356197
20°	193165
25°	136505
30°	98930
35°	12302
40°	4219
45°	1657
50°	1075
55°	860
60°	592
65°	467
70°	289
75°	381
80°	568
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	579.2	14.8
10°-20°	776.8	19.8
20°-30°	471.2	12.0
30°-40°	120.6	3.1
40°-50°	8.6	0.2
50°-60°	3.6	0.1
60°-70°	1.6	0.0
70°-80°	0.8	0.0
80°-90°	0.1	0.0
90°-100°	0.1	0.0
100°-110°	0.8	0.0
110°-120°	1.6	0.0
120°-130°	3.6	0.1
130°-140°	8.6	0.2
140°-150°	120.6	3.1
150°-160°	471.2	12.0
160°-170°	776.8	19.8
170°-180°	579.2	14.8
0°-30°	1827.2	46.6
0°-40°	1947.7	49.6
0°-60°	1959.9	49.9
0°-90°	1962.4	50.0
90°-120°	2.5	0.1
90°-150°	135.2	3.4
90°-180°	1962.0	50.0
0°-180°	3924.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7309	
5°	6680	579
15°	2789	777
25°	1003	471
35°	82	121
45°	10	9
55°	4	4
65°	2	2
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	2	2
125°	4	4
135°	10	9
145°	82	121
155°	1003	471
165°	2789	777
175°	6680	579
180°	7309	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	7309.0
1°	7262.2
2°	7179.0
3°	7060.0
4°	6897.5
5°	6680.2
6°	6409.0
7°	6103.8
8°	5713.7
9°	5297.4
10°	4872.4
11°	4425.2
12°	3985.9
13°	3565.7
14°	3162.1
15°	2789.4
16°	2456.4
17°	2155.9
18°	1887.9
19°	1661.9
20°	1471.6
21°	1321.8
22°	1202.8
23°	1114.8
24°	1052.2
25°	1003.0
26°	963.4
27°	929.3
28°	888.8
29°	815.1
30°	694.6
32.5°	330.6
35°	81.7
37.5°	44.4
40°	26.2
42.5°	11.9
45°	9.5
47.5°	7.9
50°	5.6
52.5°	4.8
55°	4.0
57.5°	3.2
60°	2.4
62.5°	2.4
65°	1.6

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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.8
70°	0.8
72.5°	0.8
75°	0.8
77.5°	0.8
80°	0.8
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°	0.8
102.5°	0.8
105°	0.8
107.5°	0.8
110°	0.8
112.5°	0.8
115°	1.6
117.5°	2.4
120°	2.4
122.5°	3.2
125°	4.0
127.5°	4.8
130°	5.6
132.5°	7.9
135°	9.5
137.5°	11.9
140°	26.2
142.5°	44.4
145°	81.7
147.5°	330.6
150°	694.6
151°	815.1
152°	888.8
153°	929.3
154°	963.4
155°	1003.0
156°	1052.2
157°	1114.8
158°	1202.8
159°	1321.8
160°	1471.6
161°	1661.9



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CANDELA DISTRIBUTION (continued):

	0°
162°	1887.9
163°	2155.9
164°	2456.4
165°	2789.4
166°	3162.1
167°	3565.7
168°	3985.9
169°	4425.2
170°	4872.4
171°	5297.4
172°	5713.7
173°	6103.8
174°	6409.0
175°	6680.2
176°	6897.5
177°	7060.0
178°	7179.0
179°	7262.2
180°	7309.0

(END OF REPORT)