

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: P222087

Luminaire Tested: **9004-W2-FL-LED3597-M-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222087
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29497)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9004-W2-FL-LED3597-M-BK-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, MEDIUM FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3500K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1891.8 lumens
Efficiency: N/A
Efficacy: 96.0 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

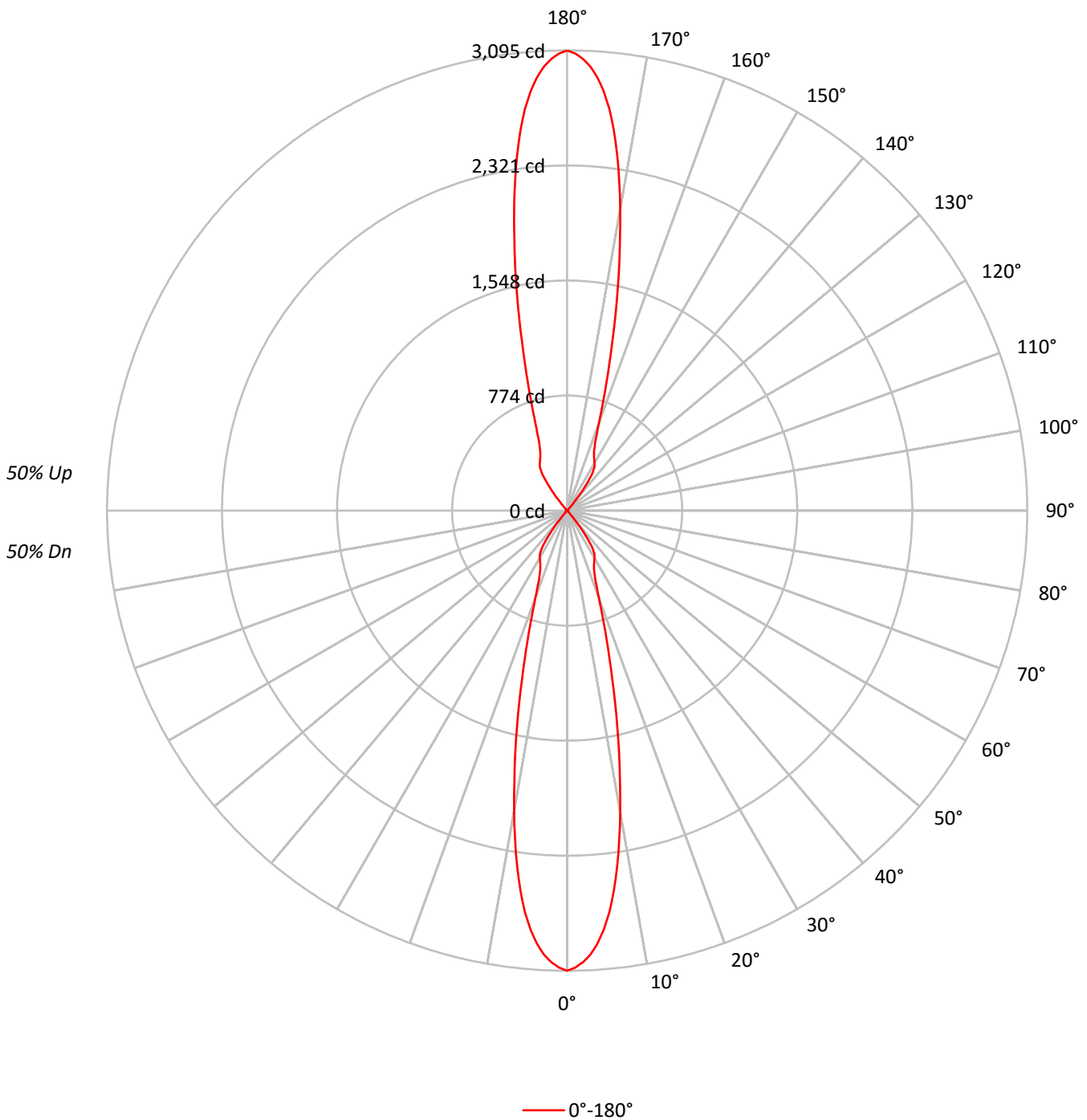
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																				
0	107	107	107	107	99	99	99	99	83	83	83		69	69	69		56	56	56	50
1	101	97	94	92	93	90	88	86	77	76	74		65	64	63		54	53	53	48
2	94	89	84	81	87	83	79	76	72	69	67		61	59	58		52	51	50	45
3	89	82	76	72	82	76	72	68	67	63	61		58	56	54		49	48	47	43
4	83	75	69	65	78	71	66	62	62	59	56		55	52	50		47	46	44	41
5	79	70	64	59	73	66	61	57	59	55	52		52	49	47		45	43	42	39
6	74	65	59	55	70	62	56	52	55	51	48		49	46	44		43	41	40	38
7	70	61	55	51	66	58	53	49	52	48	45		47	44	42		42	40	38	36
8	67	57	51	47	63	55	49	46	49	45	42		45	42	39		40	38	36	34
9	64	54	48	44	60	52	46	43	47	43	40		43	40	38		38	36	35	33
10	61	51	45	42	57	49	44	40	45	41	38		41	38	36		37	35	33	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	381742
5°	350290
10°	257386
15°	149839
20°	81710
25°	58073
30°	52342
35°	41228
40°	9162
45°	2512
50°	844
55°	495
60°	321
65°	204
70°	108
75°	143
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.1	13.0
10°-20°	327.1	17.3
20°-30°	204.5	10.8
30°-40°	151.7	8.0
40°-50°	14.1	0.7
50°-60°	2.2	0.1
60°-70°	0.8	0.0
70°-80°	0.3	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.3	0.0
110°-120°	0.8	0.0
120°-130°	2.2	0.1
130°-140°	14.1	0.7
140°-150°	151.7	8.0
150°-160°	204.5	10.8
160°-170°	327.1	17.3
170°-180°	245.1	13.0
0°-30°	776.7	41.1
0°-40°	928.4	49.1
0°-60°	944.8	49.9
0°-90°	945.9	50.0
90°-120°	1.1	0.1
90°-150°	169.2	8.9
90°-180°	946.0	50.0
0°-180°	1891.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3095	
5°	2829	245
15°	1173	327
25°	427	205
35°	274	152
45°	14	14
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°	14	14
145°	274	152
155°	427	205
165°	1173	327
175°	2829	245
180°	3095	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3094.9
1°	3074.5
2°	3039.6
3°	2989.4
4°	2920.5
5°	2829.1
6°	2715.7
7°	2578.8
8°	2419.1
9°	2241.1
10°	2055.0
11°	1864.6
12°	1680.1
13°	1500.4
14°	1329.7
15°	1173.4
16°	1031.2
17°	907.0
18°	795.6
19°	701.2
20°	622.5
21°	560.3
22°	510.4
23°	473.6
24°	446.5
25°	426.7
26°	412.0
27°	399.3
28°	387.6
29°	377.5
30°	367.5
32.5°	339.7
35°	273.8
37.5°	165.7
40°	56.9
42.5°	19.7
45°	14.4
47.5°	10.4
50°	4.4
52.5°	3.3
55°	2.3
57.5°	1.7
60°	1.3
62.5°	1.0
65°	0.7



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.7
70°	0.3
72.5°	0.3
75°	0.3
77.5°	0.3
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°	0.3
105°	0.3
107.5°	0.3
110°	0.3
112.5°	0.7
115°	0.7
117.5°	1.0
120°	1.3
122.5°	1.7
125°	2.3
127.5°	3.3
130°	4.4
132.5°	10.4
135°	14.4
137.5°	19.7
140°	56.9
142.5°	165.7
145°	273.8
147.5°	339.7
150°	367.5
151°	377.5
152°	387.6
153°	399.3
154°	412.0
155°	426.7
156°	446.5
157°	473.6
158°	510.4
159°	560.3
160°	622.5
161°	701.2



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CANDELA DISTRIBUTION (continued):

	0°
162°	795.6
163°	907.0
164°	1031.2
165°	1173.4
166°	1329.7
167°	1500.4
168°	1680.1
169°	1864.6
170°	2055.0
171°	2241.1
172°	2419.1
173°	2578.8
174°	2715.7
175°	2829.1
176°	2920.5
177°	2989.4
178°	3039.6
179°	3074.5
180°	3094.9

(END OF REPORT)