

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: P221994

Luminaire Tested: **9004-W2-FL-LED2797-M-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221994
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-LED2797-M-WT-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, MEDIUM FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 2700K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1652.3 lumens
Efficiency: N/A
Efficacy: 83.9 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

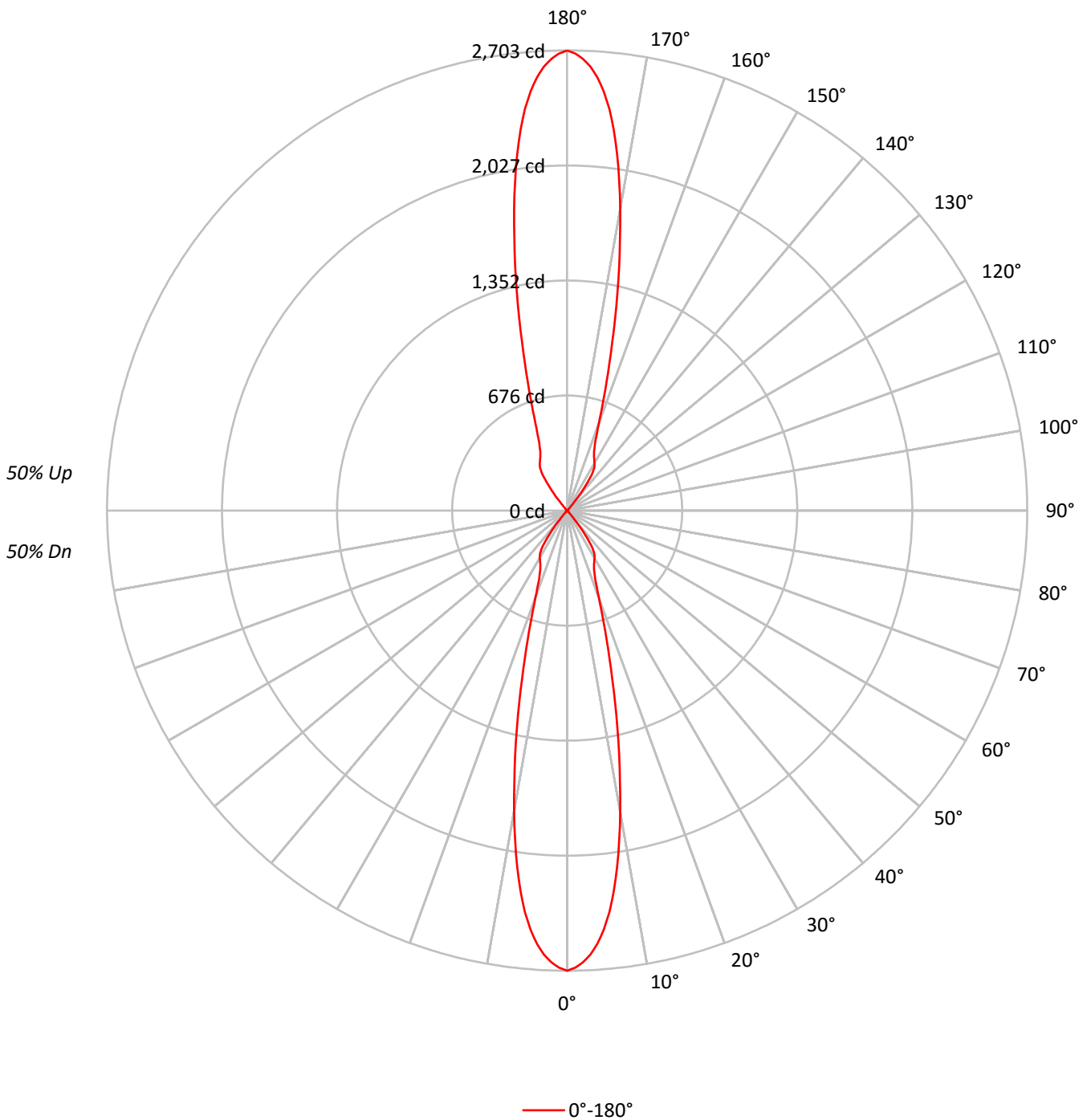
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P221994

CATALOG NUMBER: 9004-W2-FL-LED2797-M-WT-L1-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P221994

CATALOG NUMBER: 9004-W2-FL-LED2797-M-WT-L1-UNV

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°	333403
5°	305939
10°	224796
15°	130876
20°	71367
25°	50723
30°	45719
35°	36003
40°	8003
45°	2198
50°	729
55°	430
60°	296
65°	175
70°	108
75°	143
80°	0
85°	0



TEST NUMBER: P221994

CATALOG NUMBER: 9004-W2-FL-LED2797-M-WT-L1-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.0	13.0
10°-20°	285.7	17.3
20°-30°	178.6	10.8
30°-40°	132.5	8.0
40°-50°	12.3	0.7
50°-60°	2.0	0.1
60°-70°	0.7	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°	0.7	0.0
120°-130°	2.0	0.1
130°-140°	12.3	0.7
140°-150°	132.5	8.0
150°-160°	178.6	10.8
160°-170°	285.7	17.3
170°-180°	214.0	13.0
0°-30°	678.4	41.1
0°-40°	810.9	49.1
0°-60°	825.2	49.9
0°-90°	826.2	50.0
90°-120°	1.0	0.1
90°-150°	147.8	8.9
90°-180°	826.0	50.0
0°-180°	1652.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2703	
5°	2471	214
15°	1025	286
25°	373	179
35°	239	133
45°	13	12
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°	13	12
145°	239	133
155°	373	179
165°	1025	286
175°	2471	214
180°	2703	



TEST NUMBER: P221994

CATALOG NUMBER: 9004-W2-FL-LED2797-M-WT-L1-UNV

CANDELA DISTRIBUTION (FULL):

0°	
0°	2703.0
1°	2685.2
2°	2654.8
3°	2610.9
4°	2550.7
5°	2470.9
6°	2371.8
7°	2252.3
8°	2112.8
9°	1957.3
10°	1794.8
11°	1628.5
12°	1467.4
13°	1310.4
14°	1161.4
15°	1024.9
16°	900.6
17°	792.2
18°	694.8
19°	612.4
20°	543.7
21°	489.3
22°	445.8
23°	413.6
24°	389.9
25°	372.7
26°	359.8
27°	348.7
28°	338.5
29°	329.7
30°	321.0
32.5°	296.7
35°	239.1
37.5°	144.7
40°	49.7
42.5°	17.2
45°	12.6
47.5°	9.1
50°	3.8
52.5°	2.9
55°	2.0
57.5°	1.5
60°	1.2
62.5°	0.9
65°	0.6



TEST NUMBER: P221994

CATALOG NUMBER: 9004-W2-FL-LED2797-M-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.6
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°	0.6
115°	0.6
117.5°	0.9
120°	1.2
122.5°	1.5
125°	2.0
127.5°	2.9
130°	3.8
132.5°	9.1
135°	12.6
137.5°	17.2
140°	49.7
142.5°	144.7
145°	239.1
147.5°	296.7
150°	321.0
151°	329.7
152°	338.5
153°	348.7
154°	359.8
155°	372.7
156°	389.9
157°	413.6
158°	445.8
159°	489.3
160°	543.7
161°	612.4



TEST NUMBER: P221994

CATALOG NUMBER: 9004-W2-FL-LED2797-M-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

	0°
162°	694.8
163°	792.2
164°	900.6
165°	1024.9
166°	1161.4
167°	1310.4
168°	1467.4
169°	1628.5
170°	1794.8
171°	1957.3
172°	2112.8
173°	2252.3
174°	2371.8
175°	2470.9
176°	2550.7
177°	2610.9
178°	2654.8
179°	2685.2
180°	2703.0

(END OF REPORT)