

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: P221988

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221988
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29495)
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-F-WT-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 2700K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1622.4 lumens
Efficiency: N/A
Efficacy: 82.4 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

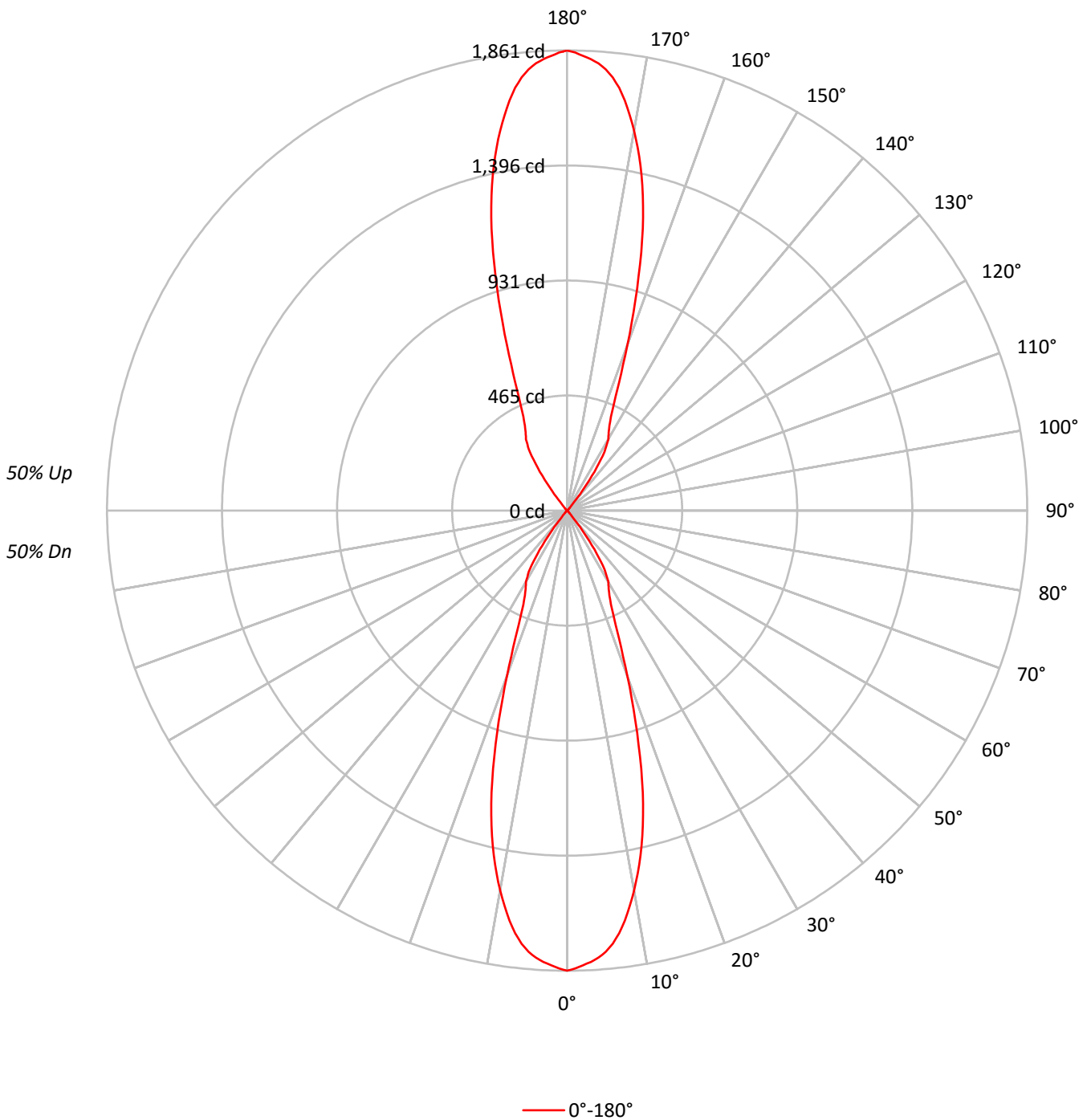
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	97	94	92	93	90	88	86	77	75	74		65	64	63		54	53	53	48
2	94	89	84	80	87	83	79	76	71	69	67		61	59	58		51	50	50	45
3	88	81	76	72	82	76	72	68	67	63	61		58	55	53		49	48	47	43
4	83	75	69	65	77	71	66	62	62	58	56		54	52	50		47	45	44	41
5	78	70	63	59	73	66	60	56	58	54	51		51	49	46		45	43	42	39
6	74	65	59	54	69	61	56	52	55	51	48		49	46	44		43	41	40	37
7	70	61	54	50	66	57	52	48	52	48	45		46	43	41		41	39	38	35
8	66	57	51	47	62	54	49	45	49	45	42		44	41	39		39	37	36	34
9	63	53	47	44	59	51	46	42	46	42	39		42	39	37		38	36	34	32
10	60	50	45	41	57	48	43	40	44	40	37		40	37	35		36	34	33	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	229497
5°	221756
10°	195400
15°	150874
20°	93655
25°	57133
30°	47386
35°	28926
40°	4895
45°	1779
50°	384
55°	194
60°	148
65°	175
70°	108
75°	143
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.6	10.1
10°-20°	316.4	19.5
20°-30°	206.0	12.7
30°-40°	114.4	7.1
40°-50°	8.9	0.6
50°-60°	1.0	0.1
60°-70°	0.6	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°	0.6	0.0
120°-130°	1.0	0.1
130°-140°	8.9	0.6
140°-150°	114.4	7.1
150°-160°	206.0	12.7
160°-170°	316.4	19.5
170°-180°	163.6	10.1
0°-30°	686.0	42.3
0°-40°	800.5	49.3
0°-60°	810.3	49.9
0°-90°	811.2	50.0
90°-120°	0.8	0.1
90°-150°	125.2	7.7
90°-180°	811.0	50.0
0°-180°	1622.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1861	
5°	1791	164
15°	1182	316
25°	420	206
35°	192	114
45°	10	9
55°	1	1
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	1	1
125°	1	1
135°	10	9
145°	192	114
155°	420	206
165°	1182	316
175°	1791	164
180°	1861	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1860.6
1°	1852.4
2°	1840.4
3°	1827.8
4°	1812.9
5°	1791.0
6°	1761.5
7°	1722.6
8°	1674.4
9°	1619.1
10°	1560.1
11°	1495.8
12°	1425.9
13°	1351.1
14°	1268.6
15°	1181.5
16°	1086.8
17°	988.0
18°	894.5
19°	800.4
20°	713.5
21°	631.7
22°	560.7
23°	501.3
24°	455.1
25°	419.8
26°	394.0
27°	373.6
28°	357.5
29°	344.6
30°	332.7
32.5°	282.1
35°	192.1
37.5°	98.5
40°	30.4
42.5°	14.6
45°	10.2
47.5°	6.4
50°	2.0
52.5°	1.2
55°	0.9
57.5°	0.9
60°	0.6
62.5°	0.6
65°	0.6



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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°	0.6
120°	0.6
122.5°	0.9
125°	0.9
127.5°	1.2
130°	2.0
132.5°	6.4
135°	10.2
137.5°	14.6
140°	30.4
142.5°	98.5
145°	192.1
147.5°	282.1
150°	332.7
151°	344.6
152°	357.5
153°	373.6
154°	394.0
155°	419.8
156°	455.1
157°	501.3
158°	560.7
159°	631.7
160°	713.5
161°	800.4



TEST NUMBER: P221988

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

CANDELA DISTRIBUTION (continued):

	0°
162°	894.5
163°	988.0
164°	1086.8
165°	1181.5
166°	1268.6
167°	1351.1
168°	1425.9
169°	1495.8
170°	1560.1
171°	1619.1
172°	1674.4
173°	1722.6
174°	1761.5
175°	1791.0
176°	1812.9
177°	1827.8
178°	1840.4
179°	1852.4
180°	1860.6

(END OF REPORT)