

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: P222084

Luminaire Tested: **9004-W2-FL-LED3597-F-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222084
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-LED3597-F-WT-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 3500K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1857.4 lumens
Efficiency: N/A
Efficacy: 94.3 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

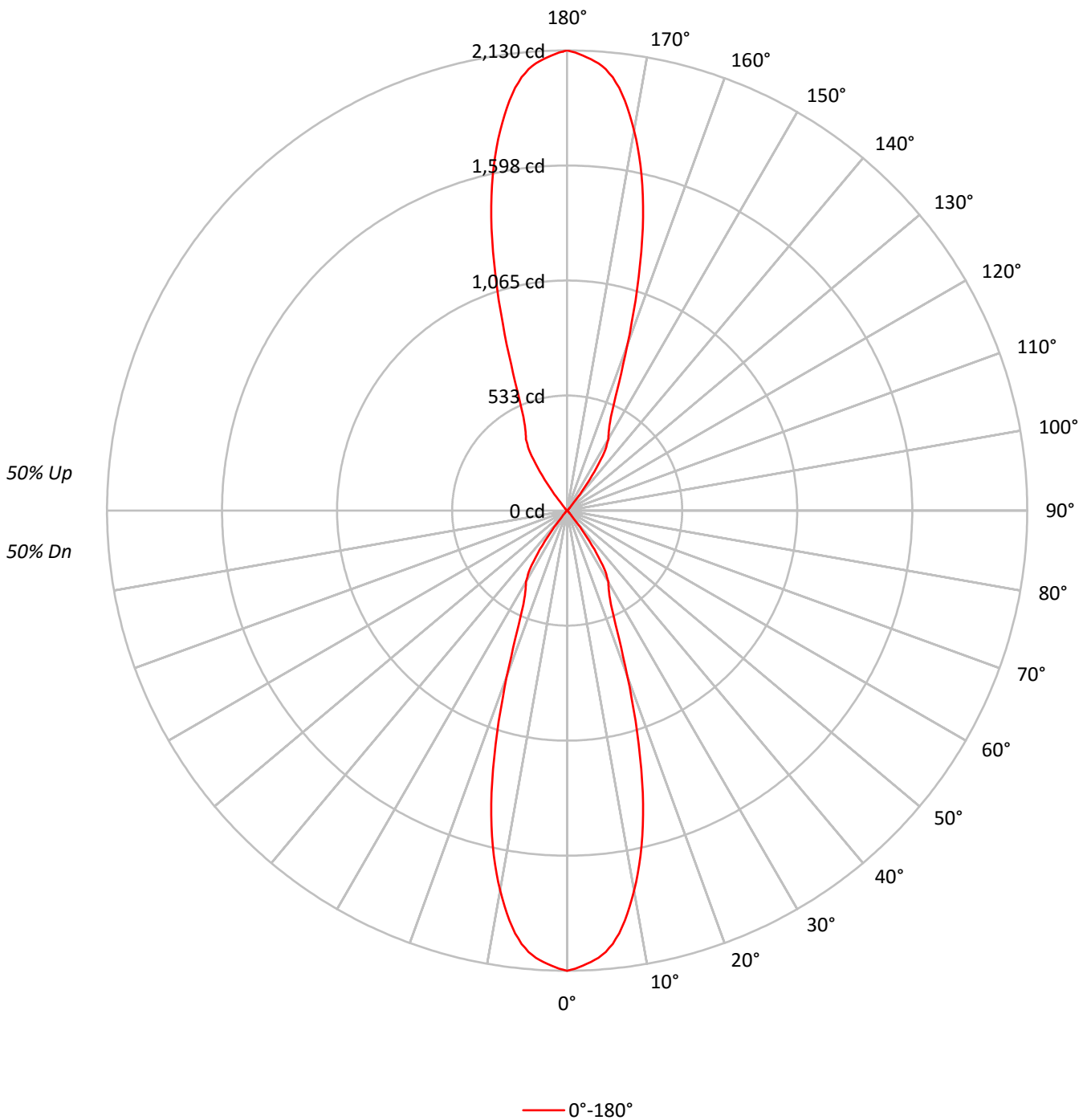
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	262763
5°	253899
10°	223719
15°	172748
20°	107241
25°	65408
30°	54251
35°	33112
40°	5603
45°	2041
50°	441
55°	215
60°	173
65°	204
70°	108
75°	143
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.3	10.1
10°-20°	362.2	19.5
20°-30°	235.9	12.7
30°-40°	131.0	7.1
40°-50°	10.2	0.6
50°-60°	1.1	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°	1.1	0.1
130°-140°	10.2	0.6
140°-150°	131.0	7.1
150°-160°	235.9	12.7
160°-170°	362.2	19.5
170°-180°	187.3	10.1
0°-30°	785.5	42.3
0°-40°	916.5	49.3
0°-60°	927.8	50.0
0°-90°	928.7	50.0
90°-120°	0.9	0.0
90°-150°	143.2	7.7
90°-180°	929.0	50.0
0°-180°	1857.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2130	
5°	2051	187
15°	1353	362
25°	481	236
35°	220	131
45°	12	10
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°	12	10
145°	220	131
155°	481	236
165°	1353	362
175°	2051	187
180°	2130	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2130.3
1°	2120.9
2°	2107.2
3°	2092.8
4°	2075.7
5°	2050.6
6°	2016.8
7°	1972.3
8°	1917.1
9°	1853.8
10°	1786.2
11°	1712.6
12°	1632.6
13°	1546.9
14°	1452.6
15°	1352.8
16°	1244.4
17°	1131.3
18°	1024.2
19°	916.4
20°	817.0
21°	723.3
22°	641.9
23°	574.0
24°	521.1
25°	480.6
26°	451.2
27°	427.7
28°	409.3
29°	394.6
30°	380.9
32.5°	323.0
35°	219.9
37.5°	112.8
40°	34.8
42.5°	16.7
45°	11.7
47.5°	7.4
50°	2.3
52.5°	1.3
55°	1.0
57.5°	1.0
60°	0.7
62.5°	0.7
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°	0.7
120°	0.7
122.5°	1.0
125°	1.0
127.5°	1.3
130°	2.3
132.5°	7.4
135°	11.7
137.5°	16.7
140°	34.8
142.5°	112.8
145°	219.9
147.5°	323.0
150°	380.9
151°	394.6
152°	409.3
153°	427.7
154°	451.2
155°	480.6
156°	521.1
157°	574.0
158°	641.9
159°	723.3
160°	817.0
161°	916.4



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CANDELA DISTRIBUTION (continued):

	0°
162°	1024.2
163°	1131.3
164°	1244.4
165°	1352.8
166°	1452.6
167°	1546.9
168°	1632.6
169°	1712.6
170°	1786.2
171°	1853.8
172°	1917.1
173°	1972.3
174°	2016.8
175°	2050.6
176°	2075.7
177°	2092.8
178°	2107.2
179°	2120.9
180°	2130.3

(END OF REPORT)