

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: P222078

Luminaire Tested: **9004-W2-FL-LED3590-W-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222078
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29499)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9004-W2-FL-LED3590-W-WT-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, WIDE FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 3500K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1885.7 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

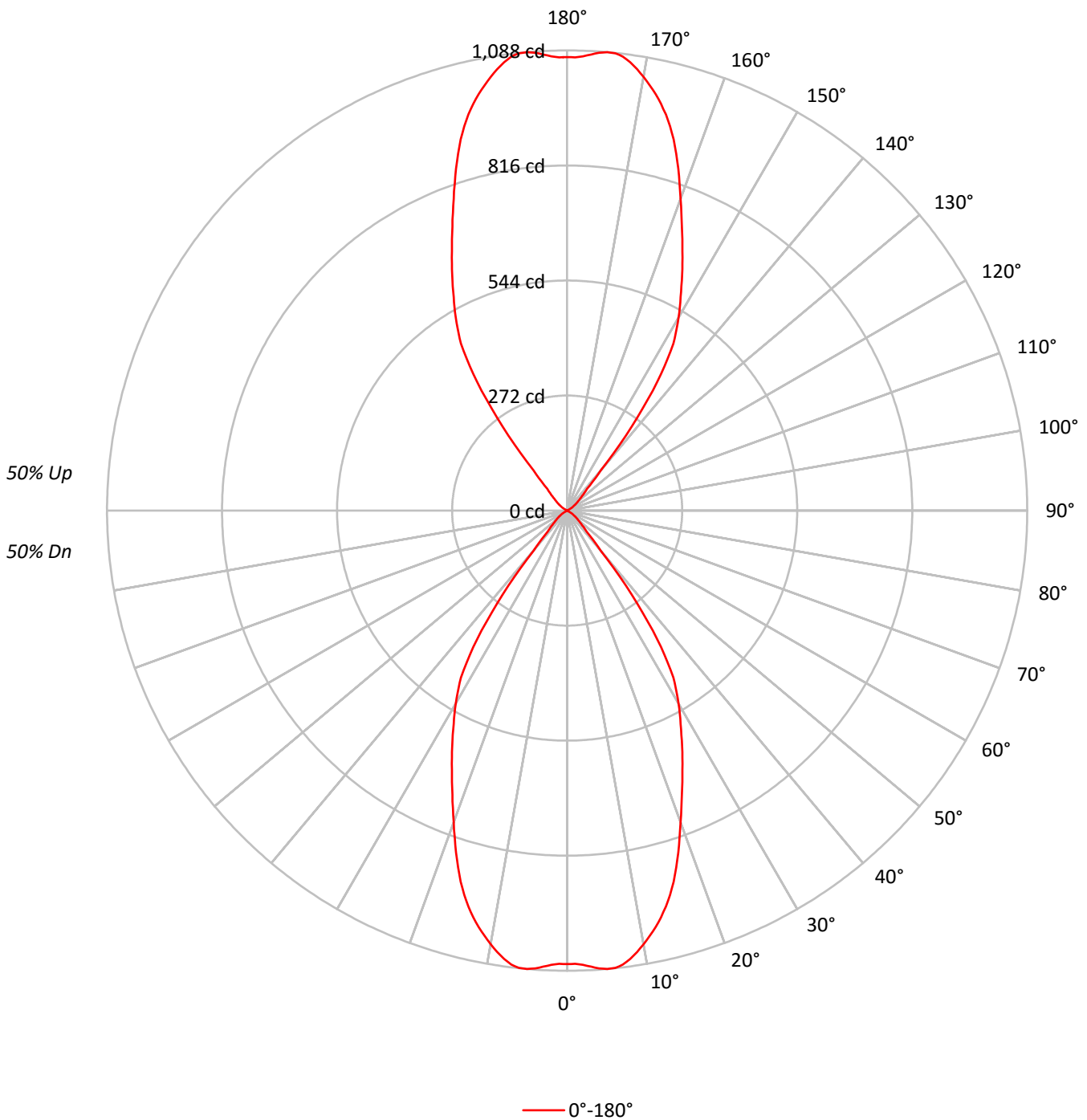
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	91	92	90	87	85	76	75	73		64	63	62		53	53	52	47
2	93	88	83	79	86	81	77	74	70	67	65		60	58	56		50	49	48	43
3	87	80	74	69	81	74	69	65	65	61	58		56	53	51		47	46	44	40
4	81	73	66	61	76	68	63	58	60	56	52		52	49	47		44	42	41	38
5	76	67	60	55	71	63	57	53	55	51	48		48	45	43		42	40	38	35
6	71	61	55	50	66	58	52	48	51	47	43		45	42	39		39	37	35	33
7	67	57	50	45	62	54	48	44	48	43	40		42	39	36		37	35	33	31
8	63	52	46	41	59	50	44	40	45	40	37		40	36	34		35	33	31	29
9	59	49	42	38	56	46	41	37	42	37	34		37	34	31		33	31	29	27
10	56	46	39	35	52	43	38	34	39	35	32		35	32	29		31	29	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	132251
5°	134725
10°	130434
15°	120124
20°	102949
25°	87796
30°	75073
35°	56120
40°	19918
45°	9315
50°	6160
55°	4150
60°	2072
65°	496
70°	361
75°	334
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.4	5.4
10°-20°	259.7	13.8
20°-30°	296.4	15.7
30°-40°	217.6	11.5
40°-50°	46.2	2.4
50°-60°	17.5	0.9
60°-70°	2.5	0.1
70°-80°	0.7	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.7	0.0
110°-120°	2.5	0.1
120°-130°	17.5	0.9
130°-140°	46.2	2.4
140°-150°	217.6	11.5
150°-160°	296.4	15.7
160°-170°	259.7	13.8
170°-180°	102.4	5.4
0°-30°	658.4	34.9
0°-40°	876.0	46.5
0°-60°	939.7	49.8
0°-90°	942.8	50.0
90°-120°	3.2	0.2
90°-150°	284.4	15.1
90°-180°	943.0	50.0
0°-180°	1885.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1072	
5°	1088	102
15°	941	260
25°	645	296
35°	373	218
45°	53	46
55°	19	17
65°	2	2
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	2	2
125°	19	17
135°	53	46
145°	373	218
155°	645	296
165°	941	260
175°	1088	102
180°	1072	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1072.2
1°	1071.9
2°	1074.6
3°	1080.0
4°	1085.0
5°	1088.1
6°	1087.4
7°	1081.7
8°	1070.5
9°	1056.7
10°	1041.4
11°	1024.2
12°	1006.6
13°	986.7
14°	965.1
15°	940.7
16°	913.0
17°	882.3
18°	850.5
19°	817.1
20°	784.3
21°	753.9
22°	724.5
23°	696.8
24°	670.4
25°	645.1
26°	620.4
27°	595.4
28°	571.4
29°	549.1
30°	527.1
32.5°	468.0
35°	372.7
37.5°	251.7
40°	123.7
42.5°	69.6
45°	53.4
47.5°	41.9
50°	32.1
52.5°	25.3
55°	19.3
57.5°	13.9
60°	8.4
62.5°	2.4
65°	1.7



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	1.4
70°	1.0
72.5°	1.0
75°	0.7
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°	0.7
107.5°	1.0
110°	1.0
112.5°	1.4
115°	1.7
117.5°	2.4
120°	8.4
122.5°	13.9
125°	19.3
127.5°	25.3
130°	32.1
132.5°	41.9
135°	53.4
137.5°	69.6
140°	123.7
142.5°	251.7
145°	372.7
147.5°	468.0
150°	527.1
151°	549.1
152°	571.4
153°	595.4
154°	620.4
155°	645.1
156°	670.4
157°	696.8
158°	724.5
159°	753.9
160°	784.3
161°	817.1



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CANDELA DISTRIBUTION (continued):

	0°
162°	850.5
163°	882.3
164°	913.0
165°	940.7
166°	965.1
167°	986.7
168°	1006.6
169°	1024.2
170°	1041.4
171°	1056.7
172°	1070.5
173°	1081.7
174°	1087.4
175°	1088.1
176°	1085.0
177°	1080.0
178°	1074.6
179°	1071.9
180°	1072.2

(END OF REPORT)