

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: P221344

Luminaire Tested: **9002-W2-FL-LED3597-M-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221344
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29418)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9002-W2-FL-LED3597-M-WT-L1-UNV
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, FLUSH LENS, MEDIUM FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 3500K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1649.6 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.36
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: General Diffuse

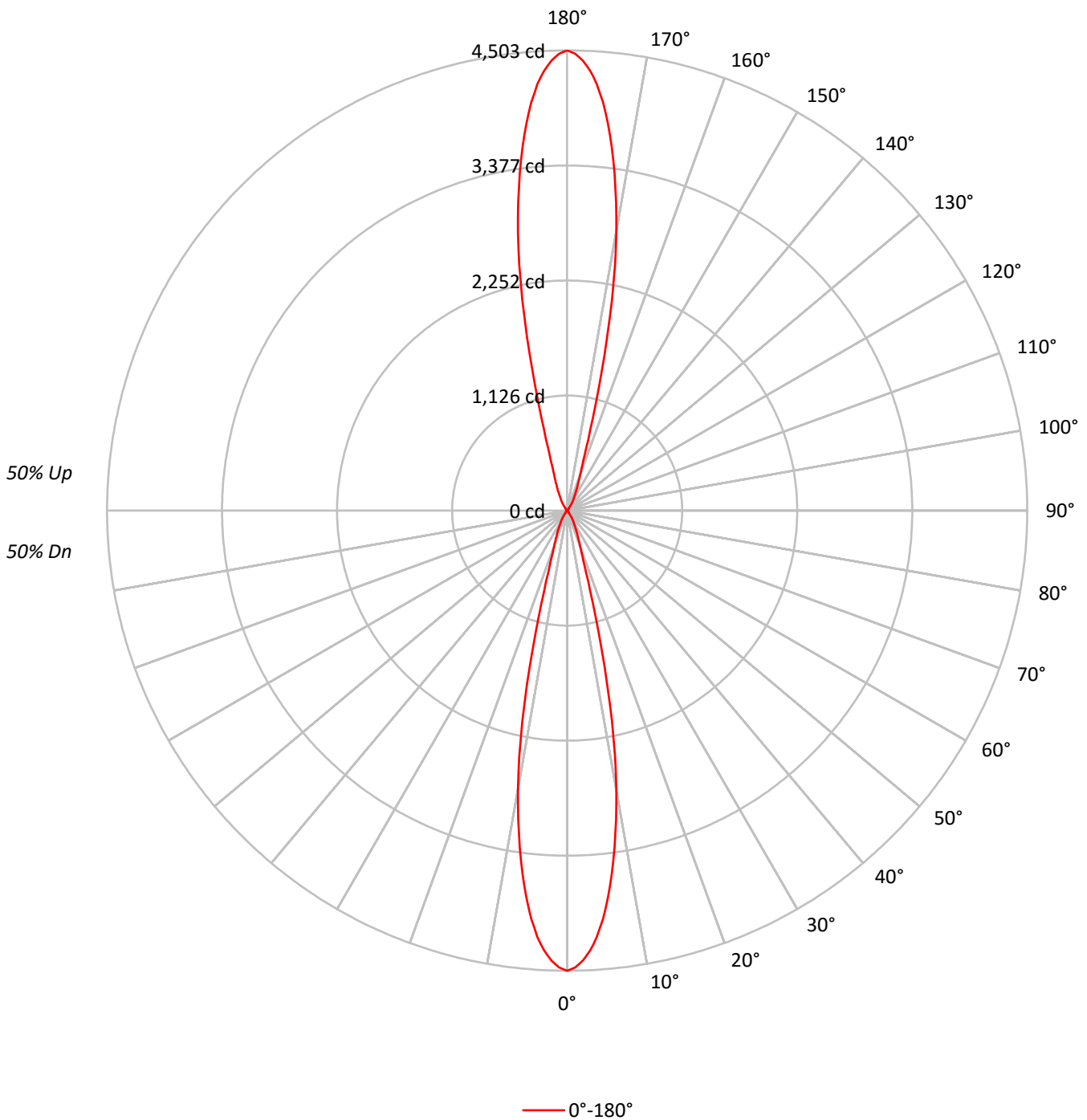
Input Watts (W): 20
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	98	95	92	93	91	88	86	77	76	75	65	64	64	54	54	53	48				
2	95	90	85	82	88	84	80	77	72	70	68	62	61	59	52	52	51	47				
3	90	83	78	74	83	78	74	70	68	65	63	59	57	56	51	50	49	45				
4	85	77	72	67	79	73	68	64	64	61	58	57	54	53	49	48	47	44				
5	81	72	67	62	75	68	64	60	61	58	55	54	52	50	48	46	45	42				
6	77	68	62	58	72	65	60	56	58	55	52	52	50	48	46	45	44	41				
7	73	64	59	55	69	61	56	53	56	52	49	50	48	46	45	44	42	40				
8	70	61	56	52	66	58	54	50	53	50	47	49	46	44	44	42	41	39				
9	67	58	53	49	64	56	51	48	51	48	45	47	44	43	43	41	40	38				
10	65	56	51	47	61	54	49	46	49	46	44	46	43	41	42	40	39	37				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2221737
5°	1987148
10°	1387293
15°	547407
20°	196681
25°	111000
30°	63408
35°	34271
40°	13590
45°	9071
50°	6217
55°	5591
60°	5625
65°	6654
70°	7068
75°	7816
80°	4546
85°	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.7	20.8
10°-20°	322.0	19.5
20°-30°	97.2	5.9
30°-40°	35.9	2.2
40°-50°	10.4	0.6
50°-60°	6.1	0.4
60°-70°	5.6	0.3
70°-80°	3.9	0.2
80°-90°	1.1	0.1
90°-100°	1.1	0.1
100°-110°	3.9	0.2
110°-120°	5.6	0.3
120°-130°	6.1	0.4
130°-140°	10.4	0.6
140°-150°	35.9	2.2
150°-160°	97.2	5.9
160°-170°	322.0	19.5
170°-180°	342.7	20.8
0°-30°	761.9	46.2
0°-40°	797.8	48.4
0°-60°	814.3	49.4
0°-90°	824.8	50.0
90°-120°	10.5	0.6
90°-150°	63.0	3.8
90°-180°	825.0	50.0
0°-180°	1649.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4503	
5°	4012	343
15°	1072	322
25°	204	97
35°	57	36
45°	13	10
55°	6	6
65°	6	6
75°	4	4
85°	1	1
90°	0	0
95°	1	1
105°	4	4
115°	6	6
125°	6	6
135°	13	10
145°	57	36
155°	204	97
165°	1072	322
175°	4012	343
180°	4503	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4503.1
1°	4471.4
2°	4405.6
3°	4310.5
4°	4181.3
5°	4012.3
6°	3810.8
7°	3586.5
8°	3332.2
9°	3060.0
10°	2769.1
11°	2452.2
12°	2106.1
13°	1743.7
14°	1387.8
15°	1071.7
16°	819.0
17°	634.6
18°	512.7
19°	431.5
20°	374.6
22.5°	275.4
25°	203.9
26°	180.4
27°	160.1
28°	142.2
29°	125.9
30°	111.3
32.5°	81.3
35°	56.9
37.5°	31.7
40°	21.1
42.5°	16.3
45°	13.0
47.5°	10.6
50°	8.1
52.5°	7.3
55°	6.5
57.5°	6.5
60°	5.7
62.5°	5.7
65°	5.7
67.5°	5.7
70°	4.9
72.5°	4.1



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CANDELA DISTRIBUTION (continued):

	0°
75°	4.1
77.5°	3.3
80°	1.6
82.5°	1.6
85°	0.8
87.5°	0.8
90°	0.0
92.5°	0.8
95°	0.8
97.5°	1.6
100°	1.6
102.5°	3.3
105°	4.1
107.5°	4.1
110°	4.9
112.5°	5.7
115°	5.7
117.5°	5.7
120°	5.7
122.5°	6.5
125°	6.5
127.5°	7.3
130°	8.1
132.5°	10.6
135°	13.0
137.5°	16.3
140°	21.1
142.5°	31.7
145°	56.9
147.5°	81.3
150°	111.3
151°	125.9
152°	142.2
153°	160.1
154°	180.4
155°	203.9
157.5°	275.4
160°	374.6
161°	431.5
162°	512.7
163°	634.6
164°	819.0
165°	1071.7
166°	1387.8
167°	1743.7



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CANDELA DISTRIBUTION (continued):

	0°
168°	2106.1
169°	2452.2
170°	2769.1
171°	3060.0
172°	3332.2
173°	3586.5
174°	3810.8
175°	4012.3
176°	4181.3
177°	4310.5
178°	4405.6
179°	4471.4
180°	4503.1

(END OF REPORT)