

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: P221311

Luminaire Tested: **9002-W2-FL-LED2797-M-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221311
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29422)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9002-W2-FL-LED2797-M-BK-L1-UNV
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, FLUSH LENS, MEDIUM FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 2700K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1421.5 lumens
Efficiency: N/A
Efficacy: 71.1 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

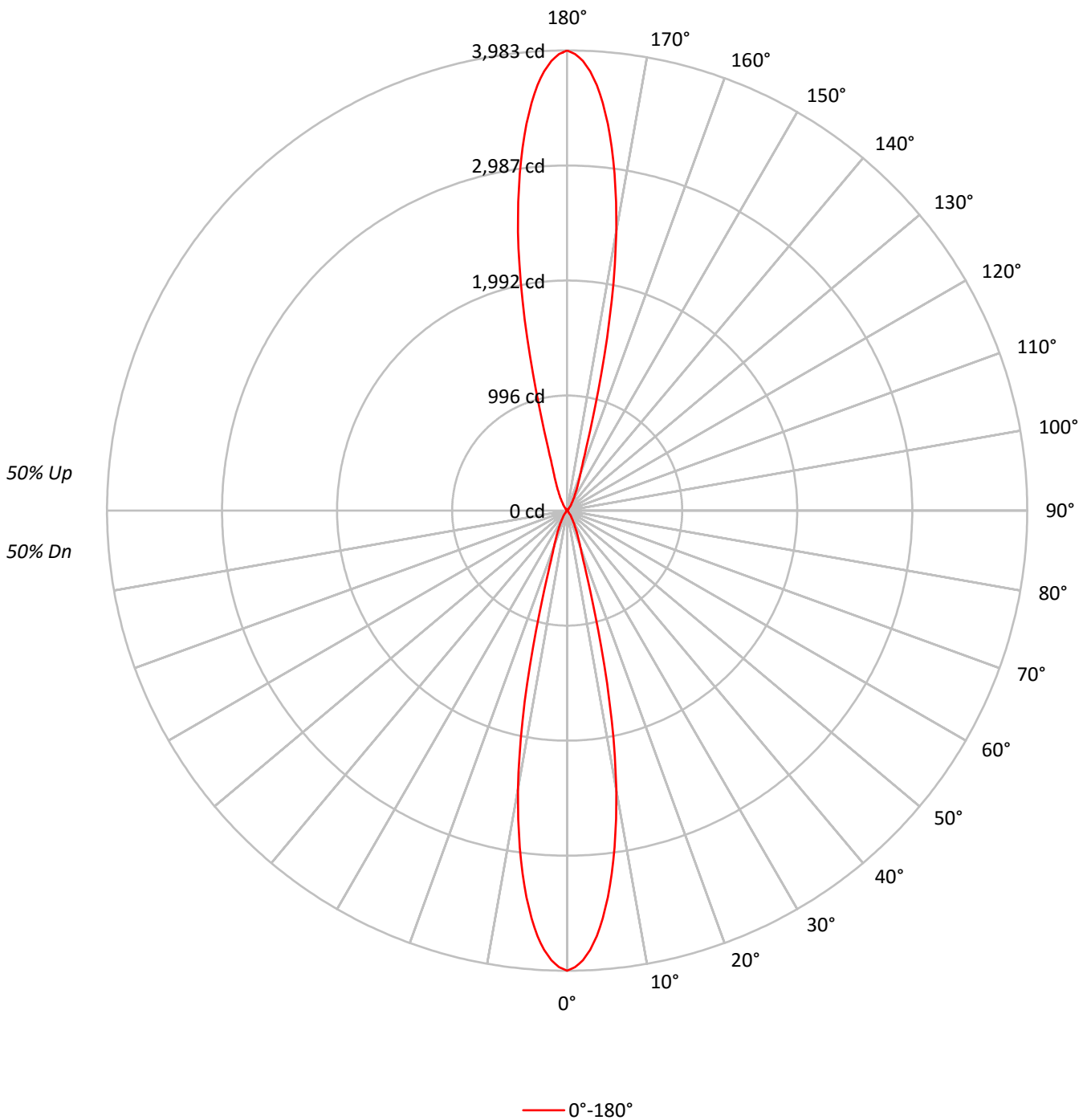
Input Watts (W): 20
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	93	91	89	87	78	76	75	66	65	64	54	54	54	48				
2	95	90	86	82	88	84	81	78	73	70	68	62	61	60	53	52	51	47				
3	90	83	78	74	84	78	74	71	69	66	63	60	58	56	51	50	49	46				
4	85	78	72	68	80	73	69	65	65	62	59	57	55	53	50	49	47	44				
5	81	73	67	63	76	69	64	61	62	58	56	55	52	51	48	47	46	43				
6	77	69	63	59	72	65	60	57	59	55	53	53	50	48	47	46	44	42				
7	74	65	59	56	69	62	57	54	56	53	50	51	48	47	46	44	43	41				
8	71	62	56	53	67	59	54	51	54	50	48	49	47	45	45	43	42	40				
9	68	59	54	50	64	57	52	49	52	48	46	48	45	43	44	42	41	39				
10	65	56	51	48	62	54	50	47	50	47	44	46	44	42	43	41	40	38				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1964983
5°	1754473
10°	1225974
15°	479933
20°	173159
25°	97009
30°	54692
35°	28670
40°	10241
45°	5512
50°	3301
55°	1892
60°	1381
65°	817
70°	1010
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.7	21.3
10°-20°	283.4	19.9
20°-30°	85.0	6.0
30°-40°	30.0	2.1
40°-50°	6.7	0.5
50°-60°	2.1	0.1
60°-70°	0.8	0.1
70°-80°	0.1	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.1	0.0
110°-120°	0.8	0.1
120°-130°	2.1	0.1
130°-140°	6.7	0.5
140°-150°	30.0	2.1
150°-160°	85.0	6.0
160°-170°	283.4	19.9
170°-180°	302.7	21.3
0°-30°	671.1	47.2
0°-40°	701.1	49.3
0°-60°	709.9	49.9
0°-90°	710.7	50.0
90°-120°	0.9	0.1
90°-150°	39.6	2.8
90°-180°	711.0	50.0
0°-180°	1421.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3983	
5°	3542	303
15°	940	283
25°	178	85
35°	48	30
45°	8	7
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°	8	7
145°	48	30
155°	178	85
165°	940	283
175°	3542	303
180°	3983	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3982.7
1°	3953.2
2°	3894.7
3°	3808.8
4°	3692.6
5°	3542.5
6°	3364.3
7°	3165.8
8°	2944.3
9°	2703.3
10°	2447.1
11°	2166.4
12°	1857.5
13°	1532.8
14°	1215.2
15°	939.6
16°	718.8
17°	559.3
18°	452.5
19°	380.3
20°	329.8
22.5°	241.7
25°	178.2
26°	157.3
27°	139.3
28°	123.4
29°	109.0
30°	96.0
32.5°	69.3
35°	47.6
37.5°	24.5
40°	15.9
42.5°	11.5
45°	7.9
47.5°	5.8
50°	4.3
52.5°	2.9
55°	2.2
57.5°	1.4
60°	1.4
62.5°	0.7
65°	0.7
67.5°	0.7
70°	0.7
72.5°	0.0



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CANDELA DISTRIBUTION (continued):

	0°
75°	0.0
77.5°	0.0
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°	0.0
105°	0.0
107.5°	0.0
110°	0.7
112.5°	0.7
115°	0.7
117.5°	0.7
120°	1.4
122.5°	1.4
125°	2.2
127.5°	2.9
130°	4.3
132.5°	5.8
135°	7.9
137.5°	11.5
140°	15.9
142.5°	24.5
145°	47.6
147.5°	69.3
150°	96.0
151°	109.0
152°	123.4
153°	139.3
154°	157.3
155°	178.2
157.5°	241.7
160°	329.8
161°	380.3
162°	452.5
163°	559.3
164°	718.8
165°	939.6
166°	1215.2
167°	1532.8



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CANDELA DISTRIBUTION (continued):

	0°
168°	1857.5
169°	2166.4
170°	2447.1
171°	2703.3
172°	2944.3
173°	3165.8
174°	3364.3
175°	3542.5
176°	3692.6
177°	3808.8
178°	3894.7
179°	3953.2
180°	3982.7

(END OF REPORT)