

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: P221304

Luminaire Tested: **9002-W2-FL-LED2790-M-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221304
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-LED2790-M-WT-L1-UNV
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, FLUSH LENS, MEDIUM FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 2700K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1537.7 lumens
Efficiency: N/A
Efficacy: 76.9 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

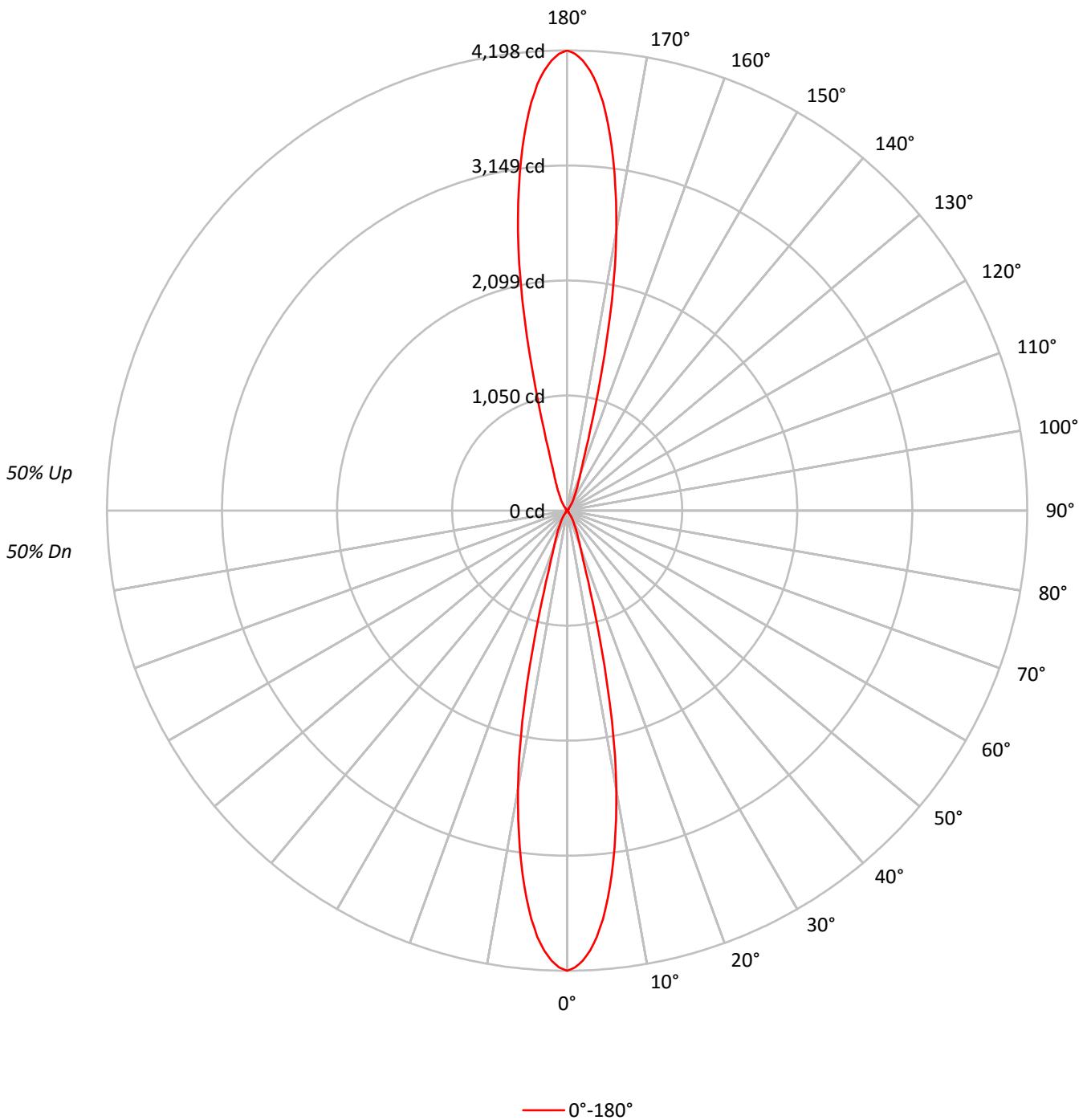
Input Watts (W): 20
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20																		
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	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°	2071109
5°	1852437
10°	1293257
15°	510324
20°	183345
25°	103487
30°	59135
35°	31922
40°	12688
45°	8443
50°	5833
55°	5247
60°	5230
65°	6187
70°	6491
75°	7244
80°	4262
85°	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.4	20.8
10°-20°	300.1	19.5
20°-30°	90.6	5.9
30°-40°	33.5	2.2
40°-50°	9.7	0.6
50°-60°	5.7	0.4
60°-70°	5.2	0.3
70°-80°	3.6	0.2
80°-90°	1.0	0.1
90°-100°	1.0	0.1
100°-110°	3.6	0.2
110°-120°	5.2	0.3
120°-130°	5.7	0.4
130°-140°	9.7	0.6
140°-150°	33.5	2.2
150°-160°	90.6	5.9
160°-170°	300.1	19.5
170°-180°	319.4	20.8
0°-30°	710.2	46.2
0°-40°	743.7	48.4
0°-60°	759.1	49.4
0°-90°	768.9	50.0
90°-120°	9.8	0.6
90°-150°	58.6	3.8
90°-180°	769.0	50.0
0°-180°	1537.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4198	
5°	3740	319
15°	999	300
25°	190	91
35°	53	33
45°	12	10
55°	6	6
65°	5	5
75°	4	4
85°	1	1
90°	0	0
95°	1	1
105°	4	4
115°	5	5
125°	6	6
135°	12	10
145°	53	33
155°	190	91
165°	999	300
175°	3740	319
180°	4198	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4197.8
1°	4168.2
2°	4106.9
3°	4018.2
4°	3897.8
5°	3740.3
6°	3552.4
7°	3343.4
8°	3106.3
9°	2852.5
10°	2581.4
11°	2286.0
12°	1963.3
13°	1625.5
14°	1293.7
15°	999.1
16°	763.5
17°	591.6
18°	477.9
19°	402.2
20°	349.2
22.5°	256.8
25°	190.1
26°	168.2
27°	149.2
28°	132.6
29°	117.4
30°	103.8
32.5°	75.7
35°	53.0
37.5°	29.5
40°	19.7
42.5°	15.1
45°	12.1
47.5°	9.8
50°	7.6
52.5°	6.8
55°	6.1
57.5°	6.1
60°	5.3
62.5°	5.3
65°	5.3
67.5°	5.3
70°	4.5
72.5°	3.8

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CANDELA DISTRIBUTION (continued):

	0°
75°	3.8
77.5°	3.0
80°	1.5
82.5°	1.5
85°	0.8
87.5°	0.8
90°	0.0
92.5°	0.8
95°	0.8
97.5°	1.5
100°	1.5
102.5°	3.0
105°	3.8
107.5°	3.8
110°	4.5
112.5°	5.3
115°	5.3
117.5°	5.3
120°	5.3
122.5°	6.1
125°	6.1
127.5°	6.8
130°	7.6
132.5°	9.8
135°	12.1
137.5°	15.1
140°	19.7
142.5°	29.5
145°	53.0
147.5°	75.7
150°	103.8
151°	117.4
152°	132.6
153°	149.2
154°	168.2
155°	190.1
157.5°	256.8
160°	349.2
161°	402.2
162°	477.9
163°	591.6
164°	763.5
165°	999.1
166°	1293.7
167°	1625.5



TEST NUMBER: P221304

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CANDELA DISTRIBUTION (continued):

	0°
168°	1963.3
169°	2286.0
170°	2581.4
171°	2852.5
172°	3106.3
173°	3343.4
174°	3552.4
175°	3740.3
176°	3897.8
177°	4018.2
178°	4106.9
179°	4168.2
180°	4197.8

(END OF REPORT)