

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: P221359

Luminaire Tested: **9002-W2-FL-LED4097-M-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221359
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-LED4097-M-BK-L1-UNV
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, FLUSH LENS, MEDIUM FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 4000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1641.1 lumens
Efficiency: N/A
Efficacy: 82.1 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

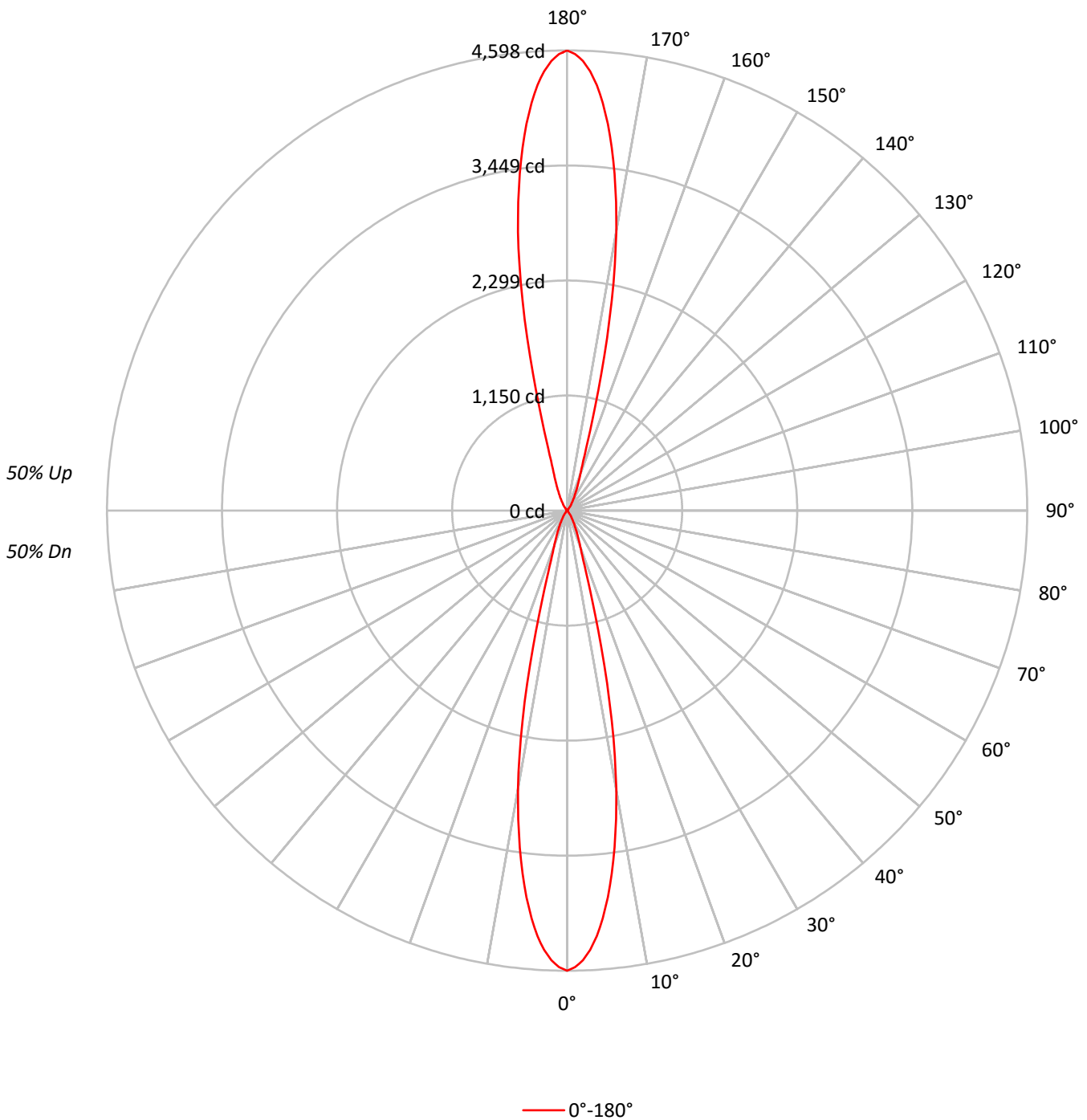
Input Watts (W): 20
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2268411
5°	2025383
10°	1415249
15°	554048
20°	199884
25°	112034
30°	63123
35°	33127
40°	11786
45°	6419
50°	3838
55°	2150
60°	1677
65°	934
70°	1154
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.4	21.3
10°-20°	327.2	19.9
20°-30°	98.2	6.0
30°-40°	34.6	2.1
40°-50°	7.8	0.5
50°-60°	2.4	0.1
60°-70°	0.9	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°	0.9	0.1
120°-130°	2.4	0.1
130°-140°	7.8	0.5
140°-150°	34.6	2.1
150°-160°	98.2	6.0
160°-170°	327.2	19.9
170°-180°	349.4	21.3
0°-30°	774.8	47.2
0°-40°	809.3	49.3
0°-60°	819.5	49.9
0°-90°	820.5	50.0
90°-120°	1.0	0.1
90°-150°	45.8	2.8
90°-180°	821.0	50.0
0°-180°	1641.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4598	
5°	4090	349
15°	1085	327
25°	206	98
35°	55	35
45°	9	8
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°	9	8
145°	55	35
155°	206	98
165°	1085	327
175°	4090	349
180°	4598	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4597.7
1°	4563.5
2°	4496.1
3°	4396.9
4°	4262.8
5°	4089.5
6°	3883.8
7°	3654.7
8°	3398.9
9°	3120.7
10°	2824.9
11°	2500.9
12°	2144.3
13°	1769.4
14°	1402.9
15°	1084.7
16°	829.7
17°	645.6
18°	522.3
19°	439.0
20°	380.7
22.5°	279.1
25°	205.8
26°	181.6
27°	160.8
28°	142.5
29°	125.8
30°	110.8
32.5°	80.0
35°	55.0
37.5°	28.3
40°	18.3
42.5°	13.3
45°	9.2
47.5°	6.7
50°	5.0
52.5°	3.3
55°	2.5
57.5°	1.7
60°	1.7
62.5°	0.8
65°	0.8
67.5°	0.8
70°	0.8
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°	0.8
112.5°	0.8
115°	0.8
117.5°	0.8
120°	1.7
122.5°	1.7
125°	2.5
127.5°	3.3
130°	5.0
132.5°	6.7
135°	9.2
137.5°	13.3
140°	18.3
142.5°	28.3
145°	55.0
147.5°	80.0
150°	110.8
151°	125.8
152°	142.5
153°	160.8
154°	181.6
155°	205.8
157.5°	279.1
160°	380.7
161°	439.0
162°	522.3
163°	645.6
164°	829.7
165°	1084.7
166°	1402.9
167°	1769.4



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CANDELA DISTRIBUTION (continued):

	0°
168°	2144.3
169°	2500.9
170°	2824.9
171°	3120.7
172°	3398.9
173°	3654.7
174°	3883.8
175°	4089.5
176°	4262.8
177°	4396.9
178°	4496.1
179°	4563.5
180°	4597.7

(END OF REPORT)