

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: P221276

Luminaire Tested: **9002-W2-[RW, RI]-LED4097-M-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221276
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29410)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9002-W2-[RW, RI]-LED4097-M-WT-L1-UNV
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, RECESSED LENS, MEDIUM FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 4000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1640.7 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.37
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: General Diffuse

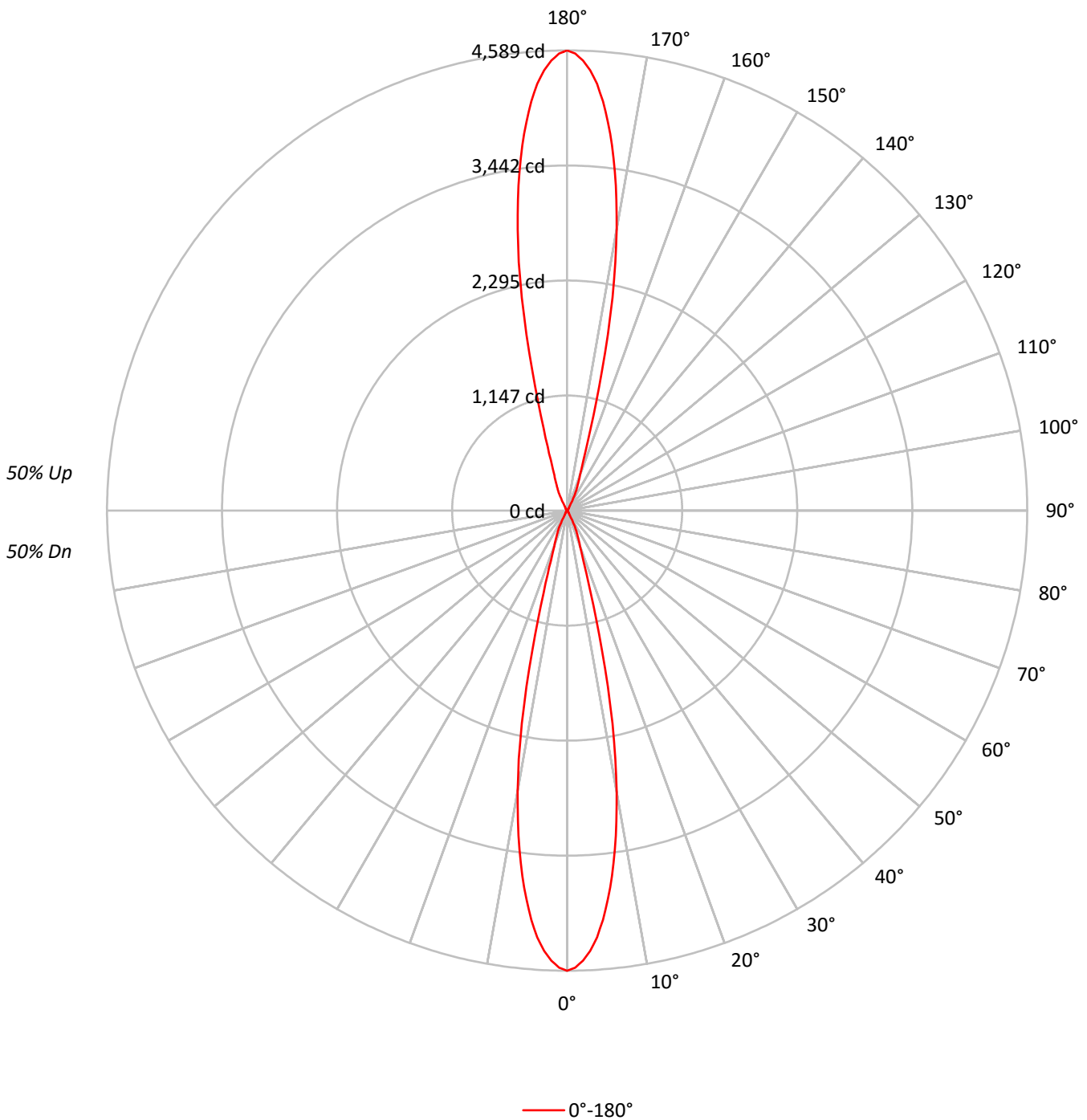
Input Watts (W): 20
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2264316
5°	2028701
10°	1424868
15°	568503
20°	195526
25°	108822
30°	26605
35°	14576
40°	10756
45°	9908
50°	9595
55°	10064
60°	9868
65°	9690
70°	9665
75°	9531
80°	9376
85°	9624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.5	21.4
10°-20°	332.3	20.3
20°-30°	84.2	5.1
30°-40°	16.4	1.0
40°-50°	11.0	0.7
50°-60°	10.3	0.6
60°-70°	8.3	0.5
70°-80°	5.5	0.3
80°-90°	1.8	0.1
90°-100°	1.8	0.1
100°-110°	5.5	0.3
110°-120°	8.3	0.5
120°-130°	10.3	0.6
130°-140°	11.0	0.7
140°-150°	16.4	1.0
150°-160°	84.2	5.1
160°-170°	332.3	20.3
170°-180°	350.5	21.4
0°-30°	767.0	46.7
0°-40°	783.4	47.7
0°-60°	804.8	49.1
0°-90°	820.4	50.0
90°-120°	15.6	0.9
90°-150°	53.3	3.3
90°-180°	820.0	50.0
0°-180°	1640.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4589	
5°	4096	351
15°	1113	332
25°	200	84
35°	24	16
45°	14	11
55°	12	10
65°	8	8
75°	5	5
85°	2	2
90°	0	0
95°	2	2
105°	5	5
115°	8	8
125°	12	10
135°	14	11
145°	24	16
155°	200	84
165°	1113	332
175°	4096	351
180°	4589	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4589.4
1°	4557.7
2°	4491.9
3°	4396.9
4°	4266.1
5°	4096.2
6°	3896.2
7°	3669.7
8°	3416.4
9°	3139.0
10°	2844.1
11°	2524.2
12°	2170.1
13°	1801.9
14°	1436.2
15°	1113.0
16°	853.1
17°	663.1
18°	529.8
19°	437.4
20°	372.4
22.5°	270.7
25°	199.9
26°	160.8
27°	113.3
28°	75.8
29°	56.6
30°	46.7
32.5°	31.7
35°	24.2
37.5°	19.2
40°	16.7
42.5°	15.0
45°	14.2
47.5°	13.3
50°	12.5
52.5°	12.5
55°	11.7
57.5°	10.8
60°	10.0
62.5°	9.2
65°	8.3
67.5°	7.5
70°	6.7
72.5°	5.8



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CANDELA DISTRIBUTION (continued):

	0°
75°	5.0
77.5°	5.0
80°	3.3
82.5°	2.5
85°	1.7
87.5°	0.8
90°	0.0
92.5°	0.8
95°	1.7
97.5°	2.5
100°	3.3
102.5°	5.0
105°	5.0
107.5°	5.8
110°	6.7
112.5°	7.5
115°	8.3
117.5°	9.2
120°	10.0
122.5°	10.8
125°	11.7
127.5°	12.5
130°	12.5
132.5°	13.3
135°	14.2
137.5°	15.0
140°	16.7
142.5°	19.2
145°	24.2
147.5°	31.7
150°	46.7
151°	56.6
152°	75.8
153°	113.3
154°	160.8
155°	199.9
157.5°	270.7
160°	372.4
161°	437.4
162°	529.8
163°	663.1
164°	853.1
165°	1113.0
166°	1436.2
167°	1801.9



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CANDELA DISTRIBUTION (continued):

	0°
168°	2170.1
169°	2524.2
170°	2844.1
171°	3139.0
172°	3416.4
173°	3669.7
174°	3896.2
175°	4096.2
176°	4266.1
177°	4396.9
178°	4491.9
179°	4557.7
180°	4589.4

(END OF REPORT)