

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: P221278

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221278
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29409)
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-S-WT-L1-UNV
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, RECESSED LENS, SPOT OPTIC, WHITE HOUSING.
Light Source: (1) 4000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 780.5 lumens
Efficiency: N/A
Efficacy: 39.0 lumens/watt
Spacing Criteria (0/90/45): 0.25 / 0.25 / 0.24
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: General Diffuse

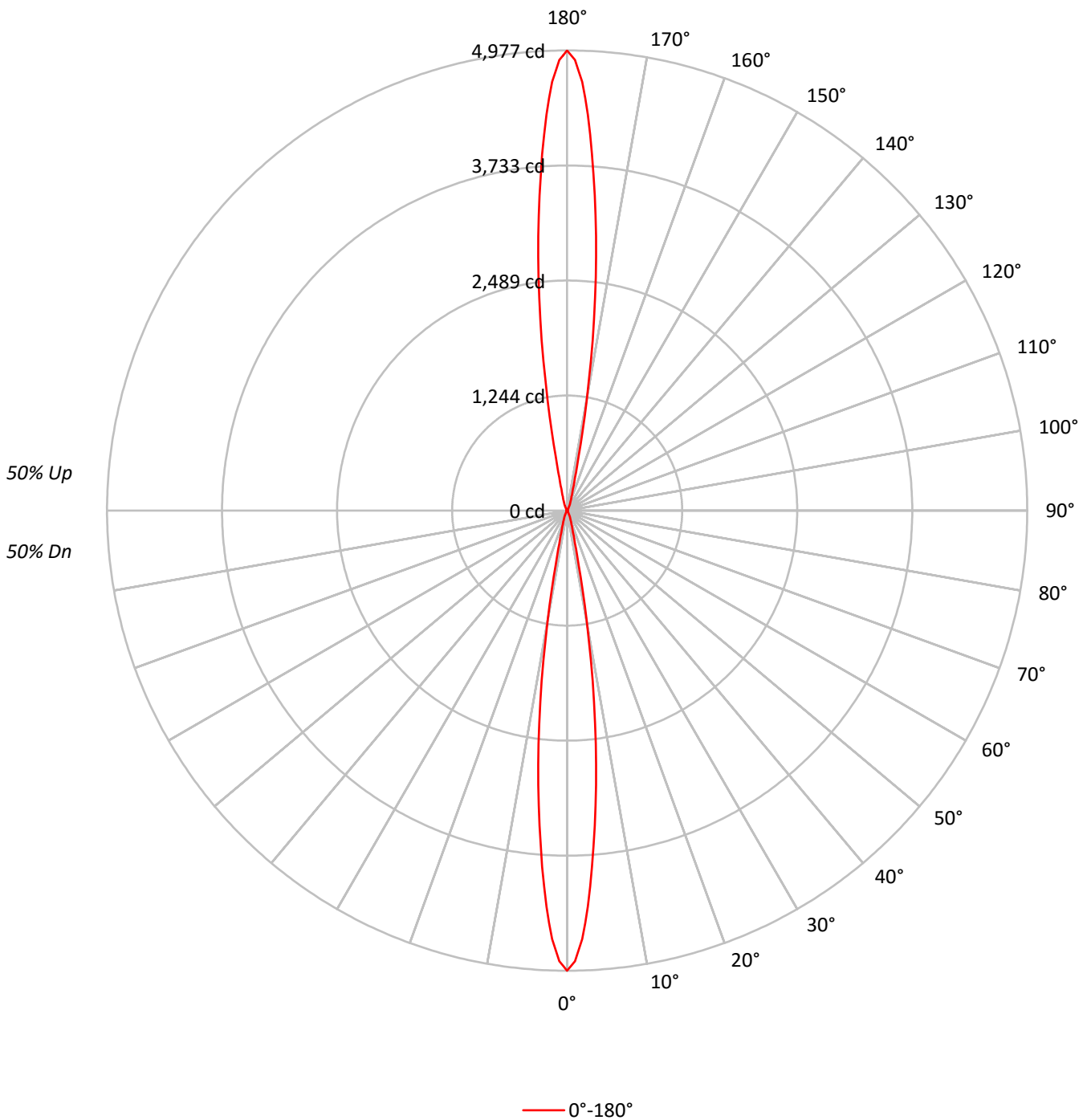
Input Watts (W): 20
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	96	93	94	91	89	87	78	77	75		66	65	64		55	54	54	49
2	96	91	87	83	89	85	81	79	74	71	69		63	62	61		54	53	52	48
3	91	85	80	76	85	79	75	72	70	67	65		61	59	58		52	51	51	47
4	86	79	74	70	81	75	70	67	66	63	61		59	57	55		51	50	49	46
5	83	75	69	66	77	71	66	63	64	60	58		57	55	53		50	49	48	46
6	79	71	66	62	74	68	63	60	61	58	55		55	53	51		49	48	47	45
7	76	68	62	59	72	65	60	57	59	56	53		54	51	50		49	47	46	44
8	73	65	60	56	69	62	58	55	57	54	52		52	50	48		48	46	45	44
9	71	62	57	54	67	60	56	53	55	52	50		51	49	47		47	46	45	43
10	68	60	55	52	65	58	54	51	54	51	49		50	48	46		46	45	44	43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2455402
5°	1695339
10°	611008
15°	124682
20°	59067
25°	29016
30°	10426
35°	5541
40°	3736
45°	3489
50°	3224
55°	2839
60°	2467
65°	1985
70°	2452
75°	1525
80°	2273
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.6	32.8
10°-20°	93.1	11.9
20°-30°	25.5	3.3
30°-40°	6.2	0.8
40°-50°	3.7	0.5
50°-60°	3.0	0.4
60°-70°	1.8	0.2
70°-80°	1.0	0.1
80°-90°	0.3	0.0
90°-100°	0.5	0.1
100°-110°	1.0	0.1
110°-120°	1.8	0.2
120°-130°	3.0	0.4
130°-140°	3.7	0.5
140°-150°	6.2	0.8
150°-160°	25.5	3.3
160°-170°	93.1	11.9
170°-180°	255.6	32.8
0°-30°	374.3	48.0
0°-40°	380.5	48.8
0°-60°	387.2	49.6
0°-90°	390.2	50.0
90°-120°	3.3	0.4
90°-150°	16.2	2.1
90°-180°	390.0	50.0
0°-180°	780.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4977	
5°	3423	256
15°	244	93
25°	53	26
35°	9	6
45°	5	4
55°	3	3
65°	2	2
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	2	2
125°	3	3
135°	5	4
145°	9	6
155°	53	26
165°	244	93
175°	3423	256
180°	4977	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4976.7
1°	4874.3
2°	4639.3
3°	4288.6
4°	3863.8
5°	3423.1
6°	2984.9
7°	2543.3
8°	2090.2
9°	1640.3
10°	1219.6
11°	862.2
12°	599.0
13°	422.4
14°	313.2
15°	244.1
17.5°	155.8
20°	112.5
22.5°	82.5
25°	53.3
27.5°	30.8
30°	18.3
32.5°	11.7
35°	9.2
37.5°	7.5
40°	5.8
42.5°	5.0
45°	5.0
47.5°	4.2
50°	4.2
52.5°	4.2
55°	3.3
57.5°	2.5
60°	2.5
62.5°	1.7
65°	1.7
67.5°	1.7
70°	1.7
72.5°	0.8
75°	0.8
77.5°	0.8
80°	0.8
82.5°	0.8
85°	0.0
87.5°	0.0



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CANDELA DISTRIBUTION (continued):

	0°
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.8
100°	0.8
102.5°	0.8
105°	0.8
107.5°	0.8
110°	1.7
112.5°	1.7
115°	1.7
117.5°	1.7
120°	2.5
122.5°	2.5
125°	3.3
127.5°	4.2
130°	4.2
132.5°	4.2
135°	5.0
137.5°	5.0
140°	5.8
142.5°	7.5
145°	9.2
147.5°	11.7
150°	18.3
152.5°	30.8
155°	53.3
157.5°	82.5
160°	112.5
162.5°	155.8
165°	244.1
166°	313.2
167°	422.4
168°	599.0
169°	862.2
170°	1219.6
171°	1640.3
172°	2090.2
173°	2543.3
174°	2984.9
175°	3423.1
176°	3863.8
177°	4288.6
178°	4639.3
179°	4874.3



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CANDELA DISTRIBUTION (continued):

180° $\overbrace{\hspace{1.5cm}}^{0^\circ}$
4976.7

(END OF REPORT)