

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: P221275

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221275
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29414)
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-BK-L1-UNV
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, RECESSED 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: 1593.1 lumens
Efficiency: N/A
Efficacy: 79.7 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

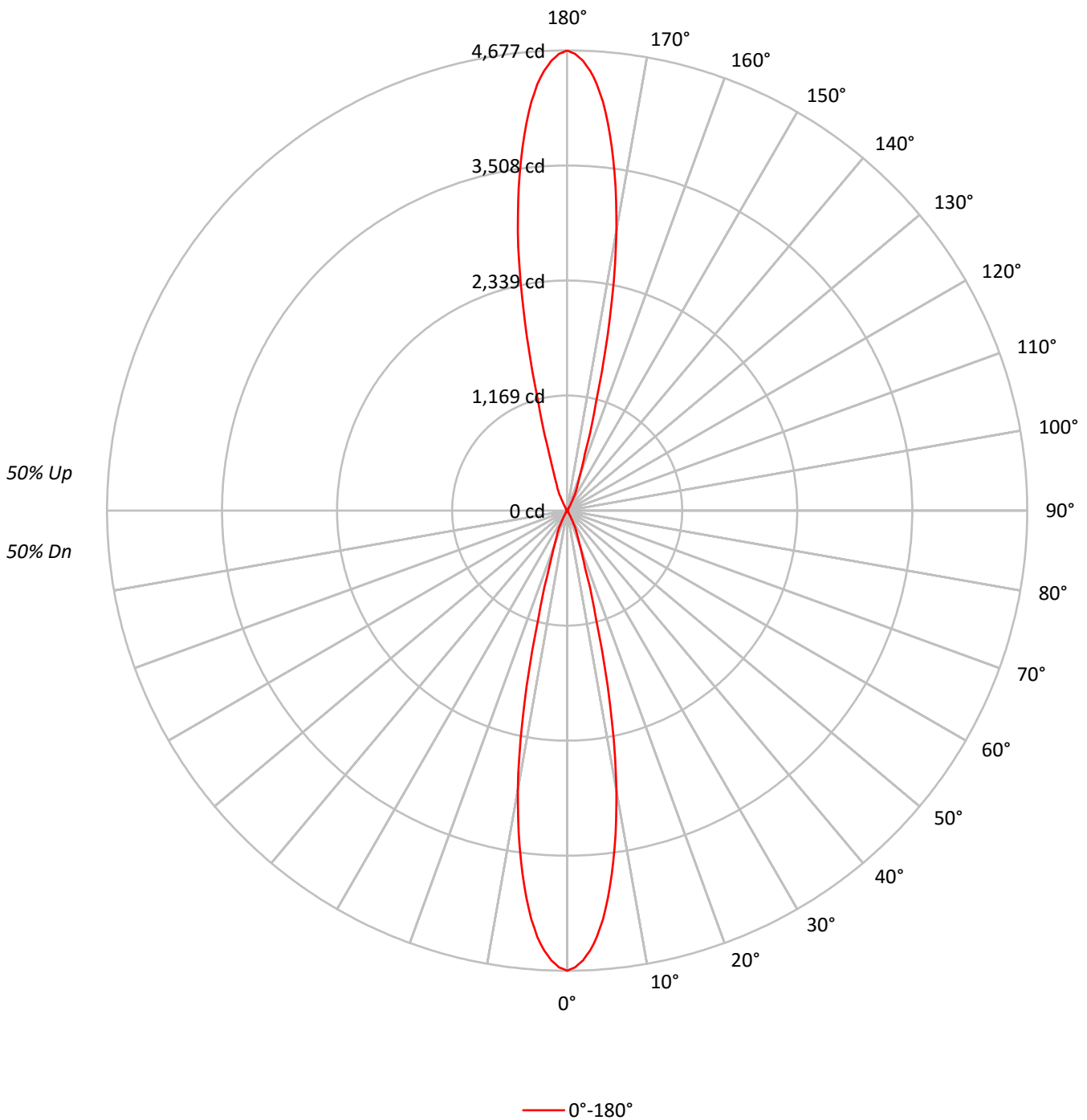
Input Watts (W): 20
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	93	91	89	87	78	76	75	66	65	64	55	54	54	49
2	95	90	86	83	89	84	81	78	73	71	69	63	61	60	53	52	52	47
3	90	84	79	75	84	79	75	71	69	66	64	60	58	57	52	51	50	46
4	86	78	73	69	80	74	69	66	66	62	60	58	56	54	50	49	48	45
5	82	74	68	64	76	70	65	61	62	59	56	56	53	51	49	48	47	44
6	78	70	64	60	73	66	61	58	60	56	54	54	51	49	48	46	45	43
7	74	66	60	57	70	63	58	55	57	54	51	52	49	48	47	45	44	42
8	71	63	57	54	67	60	55	52	55	52	49	50	48	46	46	44	43	41
9	69	60	55	51	65	58	53	50	53	50	47	49	46	45	45	43	42	40
10	66	58	53	49	63	55	51	48	51	48	46	47	45	43	44	42	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2307437
5°	2065004
10°	1446160
15°	575705
20°	196839
25°	108387
30°	23244
35°	10058
40°	5346
45°	2303
50°	1305
55°	688
60°	789
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.2	22.4
10°-20°	340.8	21.4
20°-30°	83.8	5.3
30°-40°	11.7	0.7
40°-50°	3.1	0.2
50°-60°	0.8	0.1
60°-70°	0.1	0.0
70°-80°	0.0	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.1	0.0
120°-130°	0.8	0.1
130°-140°	3.1	0.2
140°-150°	11.7	0.7
150°-160°	83.8	5.3
160°-170°	340.8	21.4
170°-180°	356.2	22.4
0°-30°	780.8	49.0
0°-40°	792.5	49.7
0°-60°	796.5	50.0
0°-90°	796.6	50.0
90°-120°	0.1	0.0
90°-150°	15.8	1.0
90°-180°	797.0	50.0
0°-180°	1593.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4677	
5°	4170	356
15°	1127	341
25°	199	84
35°	17	12
45°	3	3
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	0	0
125°	1	1
135°	3	3
145°	17	12
155°	199	84
165°	1127	341
175°	4170	356
180°	4677	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4676.8
1°	4642.7
2°	4574.4
3°	4476.9
4°	4343.6
5°	4169.5
6°	3960.4
7°	3726.3
8°	3462.2
9°	3185.6
10°	2886.6
11°	2558.3
12°	2196.8
13°	1826.1
14°	1457.9
15°	1127.1
17.5°	599.0
20°	374.9
22.5°	270.7
25°	199.1
27.5°	87.5
30°	40.8
32.5°	25.0
35°	16.7
37.5°	10.8
40°	8.3
42.5°	5.8
45°	3.3
47.5°	2.5
50°	1.7
52.5°	0.8
55°	0.8
57.5°	0.8
60°	0.8
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
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°	0.0
100°	0.0
102.5°	0.0
105°	0.0
107.5°	0.0
110°	0.0
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.8
122.5°	0.8
125°	0.8
127.5°	0.8
130°	1.7
132.5°	2.5
135°	3.3
137.5°	5.8
140°	8.3
142.5°	10.8
145°	16.7
147.5°	25.0
150°	40.8
152.5°	87.5
155°	199.1
157.5°	270.7
160°	374.9
162.5°	599.0
165°	1127.1
166°	1457.9
167°	1826.1
168°	2196.8
169°	2558.3
170°	2886.6
171°	3185.6
172°	3462.2
173°	3726.3
174°	3960.4
175°	4169.5
176°	4343.6
177°	4476.9
178°	4574.4
179°	4642.7



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CANDELA DISTRIBUTION (continued):

180° $\overbrace{\hspace{1.5cm}}^{0^\circ}$
4676.8

(END OF REPORT)