

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: P221243

Luminaire Tested: **9002-W2-[RW, RI]-LED3097-M-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221243
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]-LED3097-M-BK-L1-UNV
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, RECESSED LENS, MEDIUM FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1477.6 lumens
Efficiency: N/A
Efficacy: 73.9 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

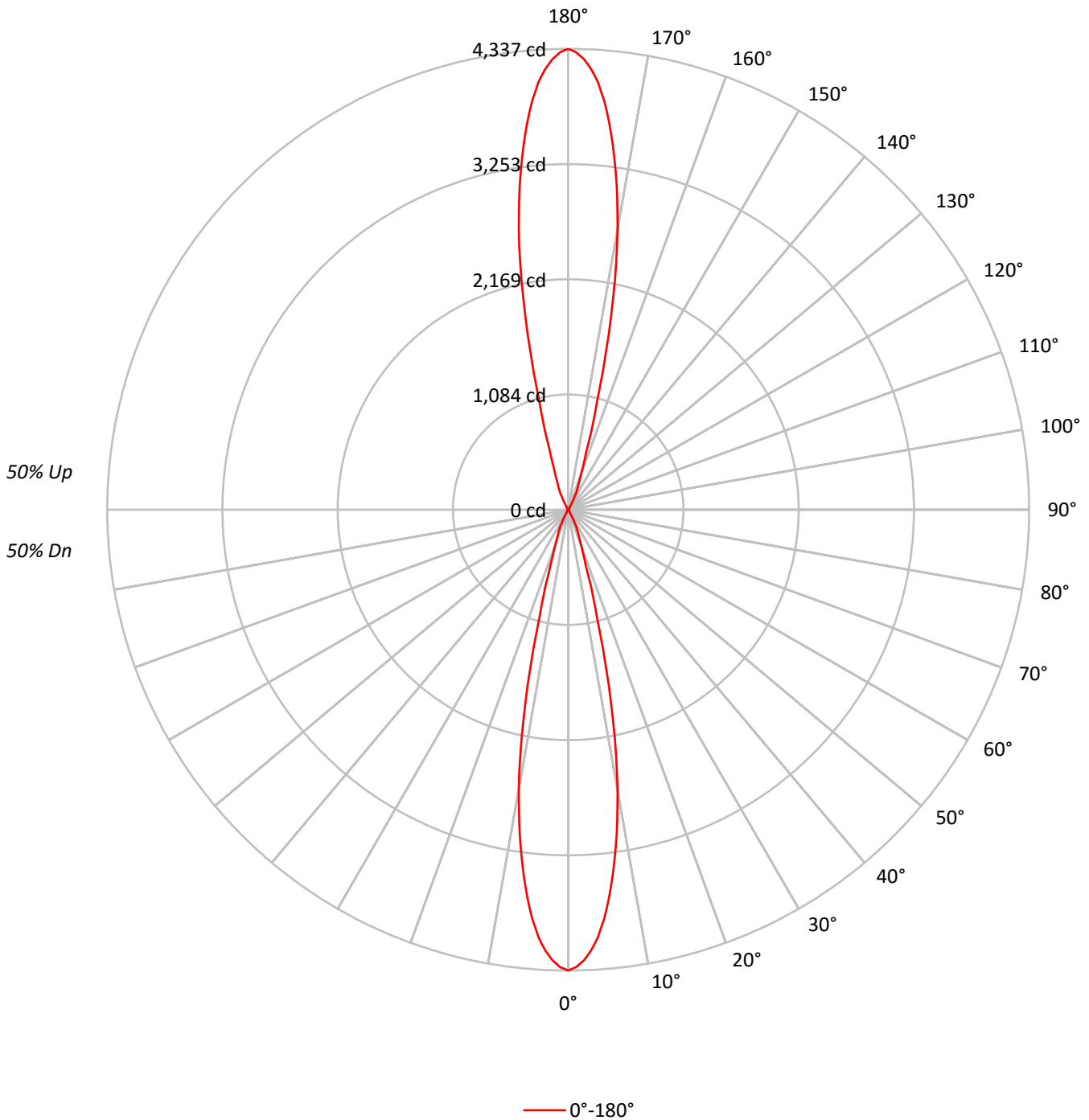
Input Watts (W): 20
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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°	2139886
5°	1915038
10°	1341152
15°	533923
20°	182558
25°	100493
30°	21592
35°	9336
40°	4959
45°	2163
50°	1151
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°	330.3	22.4
10°-20°	316.0	21.4
20°-30°	77.8	5.3
30°-40°	10.9	0.7
40°-50°	2.9	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°	2.9	0.2
140°-150°	10.9	0.7
150°-160°	77.8	5.3
160°-170°	316.0	21.4
170°-180°	330.3	22.4
0°-30°	724.1	49.0
0°-40°	735.0	49.7
0°-60°	738.7	50.0
0°-90°	738.8	50.0
90°-120°	0.1	0.0
90°-150°	14.7	1.0
90°-180°	739.0	50.0
0°-180°	1477.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4337	
5°	3867	330
15°	1045	316
25°	185	78
35°	16	11
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°	16	11
155°	185	78
165°	1045	316
175°	3867	330
180°	4337	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4337.2
1°	4305.5
2°	4242.2
3°	4151.8
4°	4028.2
5°	3866.7
6°	3672.8
7°	3455.7
8°	3210.8
9°	2954.3
10°	2677.0
11°	2372.6
12°	2037.3
13°	1693.5
14°	1352.0
15°	1045.3
17.5°	555.5
20°	347.7
22.5°	251.1
25°	184.6
27.5°	81.1
30°	37.9
32.5°	23.2
35°	15.5
37.5°	10.0
40°	7.7
42.5°	5.4
45°	3.1
47.5°	2.3
50°	1.5
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°	1.5
132.5°	2.3
135°	3.1
137.5°	5.4
140°	7.7
142.5°	10.0
145°	15.5
147.5°	23.2
150°	37.9
152.5°	81.1
155°	184.6
157.5°	251.1
160°	347.7
162.5°	555.5
165°	1045.3
166°	1352.0
167°	1693.5
168°	2037.3
169°	2372.6
170°	2677.0
171°	2954.3
172°	3210.8
173°	3455.7
174°	3672.8
175°	3866.7
176°	4028.2
177°	4151.8
178°	4242.2
179°	4305.5



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CANDELA DISTRIBUTION (continued):

180° $\overbrace{\quad\quad\quad}^{0^\circ}$
4337.2

(END OF REPORT)