

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: P221354

Luminaire Tested: **9002-W2-FL-LED4080-S-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221354
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29417)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9002-W2-FL-LED4080-S-WT-L1-UNV
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, FLUSH LENS, SPOT OPTIC, WHITE HOUSING.
Light Source: (1) 4000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 951.1 lumens
Efficiency: N/A
Efficacy: 47.6 lumens/watt
Spacing Criteria (0/90/45): 0.25 / 0.25 / 0.25
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: General Diffuse

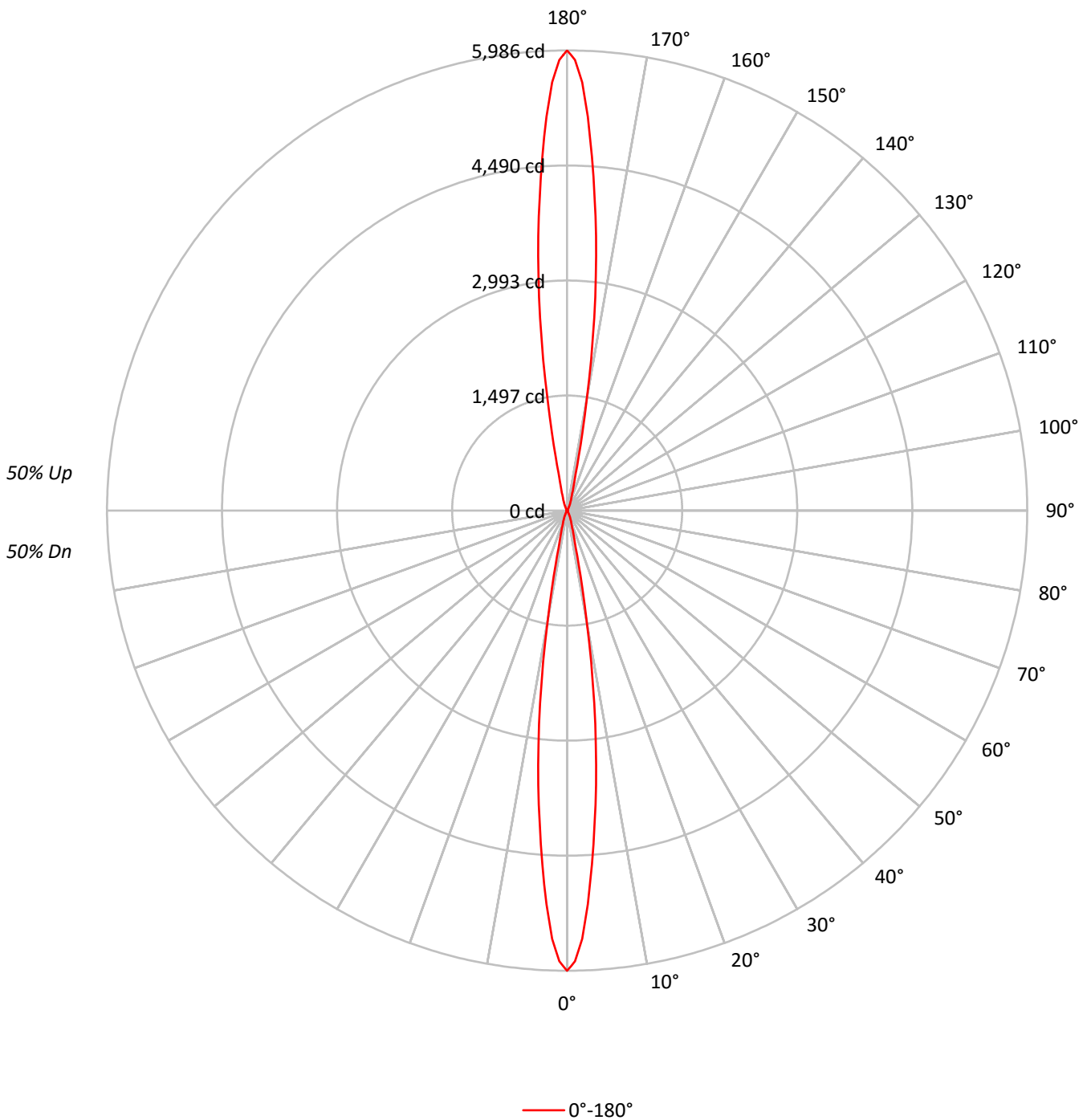
Input Watts (W): 20
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	91	89	87	78	77	75		66	65	64		55	54	54	49
2	96	91	87	83	89	85	81	78	73	71	69		63	62	60		53	53	52	48
3	91	84	79	76	84	79	75	72	70	67	64		61	59	57		52	51	50	47
4	86	79	74	70	81	75	70	67	66	63	61		58	56	55		51	50	49	46
5	82	75	69	65	77	71	66	63	63	60	58		57	54	53		50	49	48	45
6	79	71	65	61	74	67	63	59	61	58	55		55	53	51		49	48	47	45
7	76	67	62	58	71	64	60	57	59	55	53		53	51	49		48	47	46	44
8	73	65	59	56	69	62	57	54	57	54	51		52	50	48		48	46	45	43
9	70	62	57	54	67	60	55	52	55	52	50		51	49	47		47	45	44	43
10	68	60	55	52	65	58	54	51	54	51	48		50	48	46		46	45	44	42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2953370
5°	2029593
10°	739963
15°	152214
20°	73506
25°	36474
30°	13673
35°	7228
40°	5797
45°	4186
50°	3838
55°	3441
60°	3947
65°	4670
70°	4328
75°	3813
80°	2841
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.6	32.3
10°-20°	112.7	11.8
20°-30°	32.2	3.4
30°-40°	8.4	0.9
40°-50°	5.0	0.5
50°-60°	3.9	0.4
60°-70°	3.6	0.4
70°-80°	2.1	0.2
80°-90°	0.1	0.0
90°-100°	0.1	0.0
100°-110°	2.1	0.2
110°-120°	3.6	0.4
120°-130°	3.9	0.4
130°-140°	5.0	0.5
140°-150°	8.4	0.9
150°-160°	32.2	3.4
160°-170°	112.7	11.8
170°-180°	307.6	32.3
0°-30°	452.4	47.6
0°-40°	460.8	48.4
0°-60°	469.7	49.4
0°-90°	475.6	50.0
90°-120°	5.8	0.6
90°-150°	23.1	2.4
90°-180°	476.0	50.0
0°-180°	951.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5986	
5°	4098	308
15°	298	113
25°	67	32
35°	12	8
45°	6	5
55°	4	4
65°	4	4
75°	2	2
85°	0	0
90°	0	0
95°	0	0
105°	2	2
115°	4	4
125°	4	4
135°	6	5
145°	12	8
155°	67	32
165°	298	113
175°	4098	308
180°	5986	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5986
1°	5864
2°	5574
3°	5129
4°	4614
5°	4098
6°	3588
7°	3070
8°	2530
9°	1989
10°	1477
11°	1036
12°	713
13°	502
14°	375
15°	298
17.5°	194
20°	140
22.5°	103
25°	67
27.5°	40
30°	24
32.5°	16
35°	12
37.5°	10
40°	9
42.5°	7
45°	6
47.5°	6
50°	5
52.5°	5
55°	4
57.5°	4
60°	4
62.5°	4
65°	4
67.5°	3
70°	3
72.5°	3
75°	2
77.5°	1
80°	1
82.5°	0
85°	0
87.5°	0



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CANDELA DISTRIBUTION (continued):

	0°
90°	0
92.5°	0
95°	0
97.5°	0
100°	1
102.5°	1
105°	2
107.5°	3
110°	3
112.5°	3
115°	4
117.5°	4
120°	4
122.5°	4
125°	4
127.5°	5
130°	5
132.5°	6
135°	6
137.5°	7
140°	9
142.5°	10
145°	12
147.5°	16
150°	24
152.5°	40
155°	67
157.5°	103
160°	140
162.5°	194
165°	298
166°	375
167°	502
168°	713
169°	1036
170°	1477
171°	1989
172°	2530
173°	3070
174°	3588
175°	4098
176°	4614
177°	5129
178°	5574
179°	5864



TEST NUMBER: P221354

CATALOG NUMBER: 9002-W2-FL-LED4080-S-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

180° | $\frac{0^\circ}{5986}$

(END OF REPORT)