

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: P222120

Luminaire Tested: **9004-W2-FL-LED4080-S-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222120
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29496)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9004-W2-FL-LED4080-S-WT-L1-UNV
Description: LUMIERE LANTERRA 9004 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: 2342.0 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Spacing Criteria (0/90/45): 0.27 / 0.27 / 0.27
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

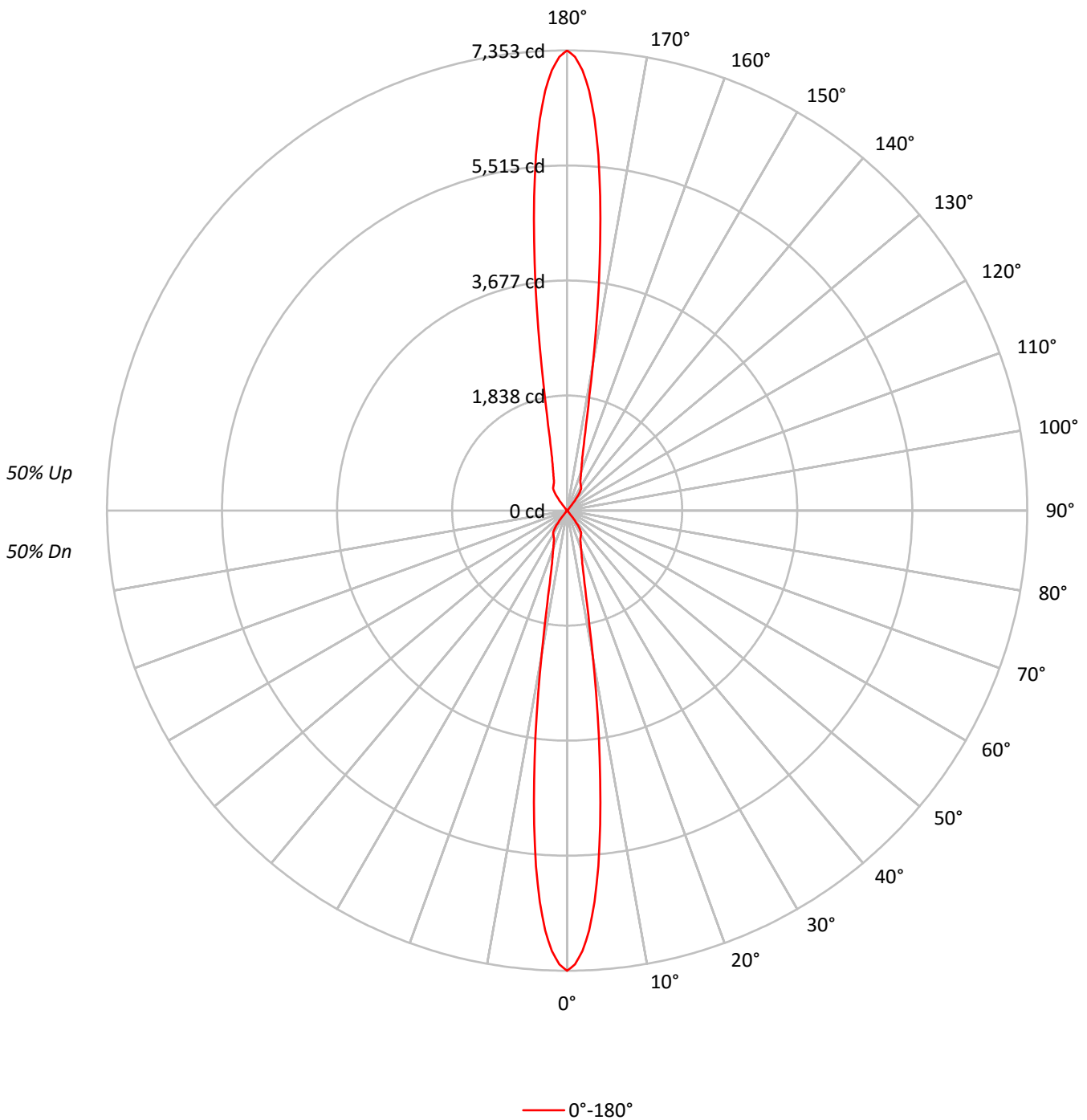
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	97	95	92	93	90	88	86	77	76	74		65	64	63		54	54	53	48
2	95	89	85	81	88	83	80	76	72	69	67		62	60	58		52	51	50	46
3	89	82	77	73	83	77	72	69	67	64	62		58	56	54		50	49	48	44
4	84	76	70	66	78	72	67	63	63	60	57		55	53	51		48	46	45	42
5	79	71	65	60	74	67	62	58	59	56	53		53	50	48		46	44	43	40
6	75	66	60	56	70	63	58	54	56	52	49		50	47	45		44	43	41	39
7	71	62	56	52	67	59	54	50	53	49	47		48	45	43		43	41	40	37
8	68	59	53	49	64	56	51	47	51	47	44		46	43	41		41	39	38	36
9	65	56	50	46	61	53	48	45	48	45	42		44	41	39		40	38	37	35
10	62	53	47	44	59	51	46	42	46	43	40		42	40	38		39	37	35	34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	906997
5°	706016
10°	294046
15°	124326
20°	85333
25°	68103
30°	62939
35°	51497
40°	10836
45°	2477
50°	883
55°	710
60°	419
65°	233
70°	144
75°	191
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.5	18.3
10°-20°	300.3	12.8
20°-30°	236.7	10.1
30°-40°	186.4	8.0
40°-50°	15.1	0.6
50°-60°	2.9	0.1
60°-70°	0.7	0.0
70°-80°	0.4	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.4	0.0
110°-120°	0.7	0.0
120°-130°	2.9	0.1
130°-140°	15.1	0.6
140°-150°	186.4	8.0
150°-160°	236.7	10.1
160°-170°	300.3	12.8
170°-180°	428.5	18.3
0°-30°	965.5	41.2
0°-40°	1151.9	49.2
0°-60°	1169.9	50.0
0°-90°	1171.0	50.0
90°-120°	1.1	0.0
90°-150°	205.5	8.8
90°-180°	1171.0	50.0
0°-180°	2342.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7353	
5°	5702	429
15°	974	300
25°	500	237
35°	342	186
45°	14	15
55°	3	3
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	1	1
125°	3	3
135°	14	15
145°	342	186
155°	500	237
165°	974	300
175°	5702	429
180°	7353	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	7353.3
1°	7252.1
2°	7041.9
3°	6715.8
4°	6269.8
5°	5702.1
6°	5046.6
7°	4338.4
8°	3643.6
9°	2944.3
10°	2347.7
11°	1871.6
12°	1526.3
13°	1281.7
14°	1104.5
15°	973.6
16°	875.4
17°	803.5
18°	748.7
19°	696.5
20°	650.1
21°	611.6
22°	577.3
23°	547.2
24°	520.9
25°	500.4
26°	484.9
27°	473.2
28°	461.9
29°	451.9
30°	441.9
32.5°	416.8
35°	342.0
37.5°	204.0
40°	67.3
42.5°	20.1
45°	14.2
47.5°	10.0
50°	4.6
52.5°	4.2
55°	3.3
57.5°	2.5
60°	1.7
62.5°	0.8
65°	0.8

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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.4
70°	0.4
72.5°	0.4
75°	0.4
77.5°	0.4
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.4
105°	0.4
107.5°	0.4
110°	0.4
112.5°	0.4
115°	0.8
117.5°	0.8
120°	1.7
122.5°	2.5
125°	3.3
127.5°	4.2
130°	4.6
132.5°	10.0
135°	14.2
137.5°	20.1
140°	67.3
142.5°	204.0
145°	342.0
147.5°	416.8
150°	441.9
151°	451.9
152°	461.9
153°	473.2
154°	484.9
155°	500.4
156°	520.9
157°	547.2
158°	577.3
159°	611.6
160°	650.1
161°	696.5



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CANDELA DISTRIBUTION (continued):

	0°
162°	748.7
163°	803.5
164°	875.4
165°	973.6
166°	1104.5
167°	1281.7
168°	1526.3
169°	1871.6
170°	2347.7
171°	2944.3
172°	3643.6
173°	4338.4
174°	5046.6
175°	5702.1
176°	6269.8
177°	6715.8
178°	7041.9
179°	7252.1
180°	7353.3

(END OF REPORT)