

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: P222114

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222114
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29497)
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-M-WT-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, MEDIUM FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 4000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2362.9 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

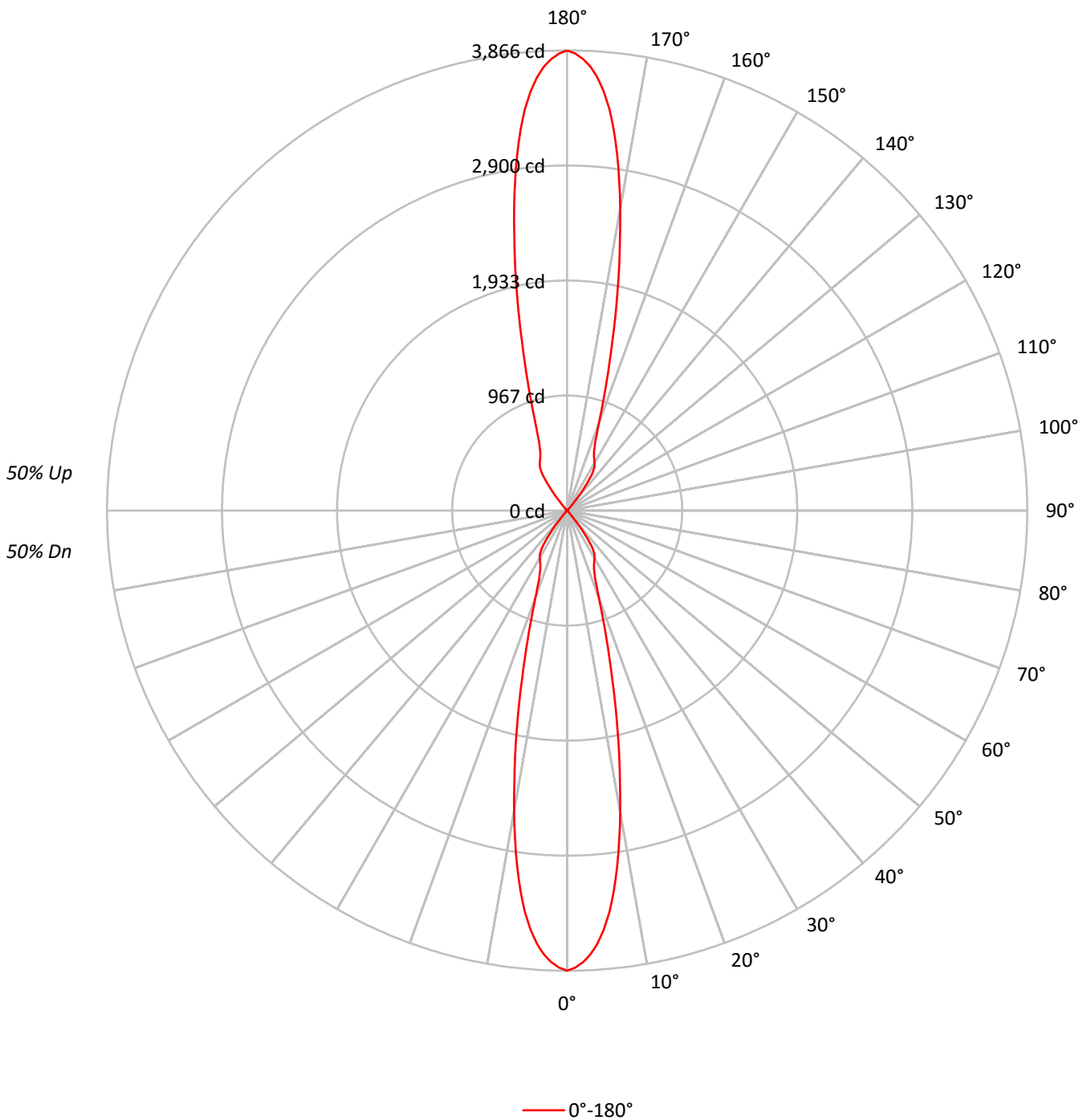
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	92	93	90	88	86	77	76	74		65	64	63		54	53	53	48
2	94	89	84	81	87	83	79	76	72	69	67		61	59	58		52	51	50	45
3	89	82	76	72	82	76	72	68	67	63	61		58	56	54		49	48	47	43
4	83	75	69	65	78	71	66	62	62	59	56		55	52	50		47	46	44	41
5	79	70	64	59	73	66	61	57	59	55	52		52	49	47		45	43	42	39
6	74	65	59	55	70	62	56	52	55	51	48		49	46	44		43	41	40	38
7	70	61	55	51	66	58	53	49	52	48	45		47	44	42		42	40	38	36
8	67	57	51	47	63	55	49	46	49	45	42		45	42	39		40	38	36	34
9	64	54	48	44	60	52	46	43	47	43	40		43	40	38		38	36	35	33
10	61	51	45	42	57	49	44	40	45	41	38		41	38	36		37	35	33	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	476805
5°	437531
10°	321488
15°	187152
20°	102069
25°	72540
30°	65374
35°	51497
40°	11448
45°	3140
50°	1036
55°	624
60°	419
65°	233
70°	144
75°	191
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.1	13.0
10°-20°	408.5	17.3
20°-30°	255.5	10.8
30°-40°	189.5	8.0
40°-50°	17.7	0.7
50°-60°	2.8	0.1
60°-70°	1.0	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°	1.0	0.0
120°-130°	2.8	0.1
130°-140°	17.7	0.7
140°-150°	189.5	8.0
150°-160°	255.5	10.8
160°-170°	408.5	17.3
170°-180°	306.1	13.0
0°-30°	970.1	41.1
0°-40°	1159.6	49.1
0°-60°	1180.1	49.9
0°-90°	1181.5	50.0
90°-120°	1.3	0.1
90°-150°	211.3	8.9
90°-180°	1181.0	50.0
0°-180°	2362.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3866	
5°	3534	306
15°	1466	409
25°	533	255
35°	342	190
45°	18	18
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°	18	18
145°	342	190
155°	533	255
165°	1466	409
175°	3534	306
180°	3866	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3865.6
1°	3840.1
2°	3796.6
3°	3733.9
4°	3647.8
5°	3533.7
6°	3392.0
7°	3221.0
8°	3021.6
9°	2799.2
10°	2566.8
11°	2328.9
12°	2098.6
13°	1874.1
14°	1660.9
15°	1465.6
16°	1288.0
17°	1132.9
18°	993.7
19°	875.8
20°	777.6
21°	699.8
22°	637.5
23°	591.5
24°	557.7
25°	533.0
26°	514.6
27°	498.7
28°	484.1
29°	471.5
30°	459.0
32.5°	424.3
35°	342.0
37.5°	206.9
40°	71.1
42.5°	24.7
45°	18.0
47.5°	13.0
50°	5.4
52.5°	4.2
55°	2.9
57.5°	2.1
60°	1.7
62.5°	1.3
65°	0.8



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.8
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°	0.8
115°	0.8
117.5°	1.3
120°	1.7
122.5°	2.1
125°	2.9
127.5°	4.2
130°	5.4
132.5°	13.0
135°	18.0
137.5°	24.7
140°	71.1
142.5°	206.9
145°	342.0
147.5°	424.3
150°	459.0
151°	471.5
152°	484.1
153°	498.7
154°	514.6
155°	533.0
156°	557.7
157°	591.5
158°	637.5
159°	699.8
160°	777.6
161°	875.8



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CANDELA DISTRIBUTION (continued):

	0°
162°	993.7
163°	1132.9
164°	1288.0
165°	1465.6
166°	1660.9
167°	1874.1
168°	2098.6
169°	2328.9
170°	2566.8
171°	2799.2
172°	3021.6
173°	3221.0
174°	3392.0
175°	3533.7
176°	3647.8
177°	3733.9
178°	3796.6
179°	3840.1
180°	3865.6

(END OF REPORT)