

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: P222123

Luminaire Tested: **9004-W2-FL-LED4080-W-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222123
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29499)
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-W-BK-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, WIDE FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 4000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2332.8 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

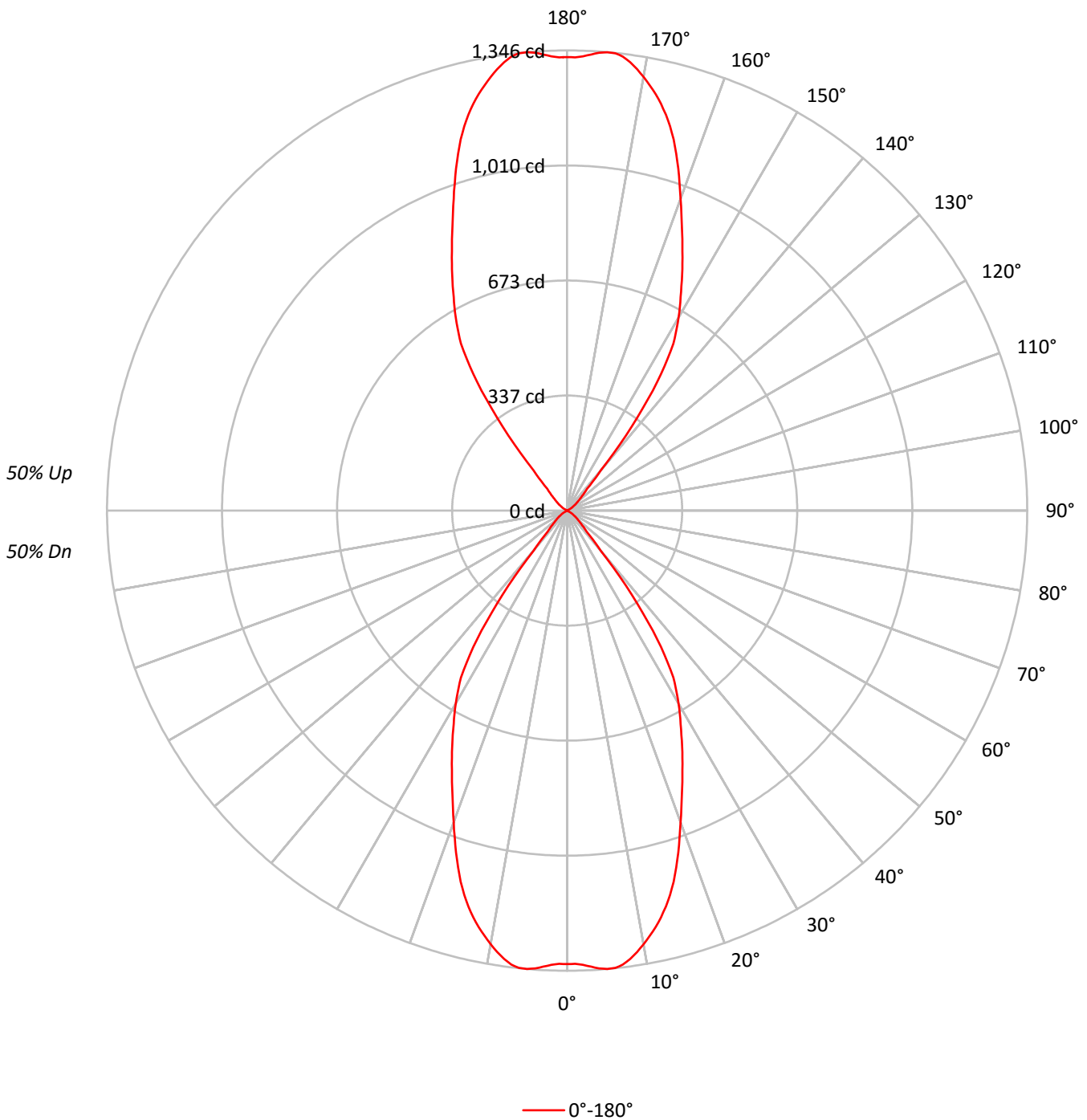
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	97	94	91	92	90	87	85	76	75	73		64	63	62		53	53	52	47
2	93	88	83	79	86	81	77	74	70	67	65		60	58	56		50	49	48	43
3	87	80	74	69	81	74	69	65	65	61	58		56	53	51		47	46	44	40
4	81	73	66	61	76	68	63	58	60	56	52		52	49	47		44	42	41	38
5	76	67	60	55	71	63	57	53	55	51	48		48	45	43		42	40	38	35
6	71	61	55	50	66	58	52	48	51	47	43		45	42	39		39	37	35	33
7	67	57	50	45	62	54	48	44	48	43	40		42	39	36		37	35	33	31
8	63	52	46	41	59	50	44	40	45	40	37		40	36	34		35	33	31	29
9	59	49	42	38	56	46	41	37	42	37	34		37	34	31		33	31	29	27
10	56	46	39	35	52	43	38	34	39	35	32		35	32	29		31	29	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	163606
5°	166670
10°	161370
15°	148614
20°	127363
25°	108605
30°	92877
35°	69431
40°	24635
45°	11530
50°	7618
55°	5118
60°	2590
65°	613
70°	469
75°	381
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.7	5.4
10°-20°	321.2	13.8
20°-30°	366.7	15.7
30°-40°	269.2	11.5
40°-50°	57.1	2.4
50°-60°	21.6	0.9
60°-70°	3.1	0.1
70°-80°	0.8	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.8	0.0
110°-120°	3.1	0.1
120°-130°	21.6	0.9
130°-140°	57.1	2.4
140°-150°	269.2	11.5
150°-160°	366.7	15.7
160°-170°	321.2	13.8
170°-180°	126.7	5.4
0°-30°	814.6	34.9
0°-40°	1083.8	46.5
0°-60°	1162.5	49.8
0°-90°	1166.4	50.0
90°-120°	3.9	0.2
90°-150°	351.8	15.1
90°-180°	1166.0	50.0
0°-180°	2332.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1326	
5°	1346	127
15°	1164	321
25°	798	367
35°	461	269
45°	66	57
55°	24	22
65°	2	3
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	2	3
125°	24	22
135°	66	57
145°	461	269
155°	798	367
165°	1164	321
175°	1346	127
180°	1326	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1326.4
1°	1326.0
2°	1329.4
3°	1336.1
4°	1342.3
5°	1346.1
6°	1345.3
7°	1338.1
8°	1324.3
9°	1307.2
10°	1288.4
11°	1267.1
12°	1245.3
13°	1220.7
14°	1193.9
15°	1163.8
16°	1129.5
17°	1091.5
18°	1052.2
19°	1010.8
20°	970.3
21°	932.6
22°	896.3
23°	862.0
24°	829.4
25°	798.0
26°	767.5
27°	736.6
28°	706.9
29°	679.3
30°	652.1
32.5°	579.0
35°	461.1
37.5°	311.4
40°	153.0
42.5°	86.1
45°	66.1
47.5°	51.8
50°	39.7
52.5°	31.4
55°	23.8
57.5°	17.1
60°	10.5
62.5°	2.9
65°	2.1



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	1.7
70°	1.3
72.5°	1.3
75°	0.8
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°	0.8
107.5°	1.3
110°	1.3
112.5°	1.7
115°	2.1
117.5°	2.9
120°	10.5
122.5°	17.1
125°	23.8
127.5°	31.4
130°	39.7
132.5°	51.8
135°	66.1
137.5°	86.1
140°	153.0
142.5°	311.4
145°	461.1
147.5°	579.0
150°	652.1
151°	679.3
152°	706.9
153°	736.6
154°	767.5
155°	798.0
156°	829.4
157°	862.0
158°	896.3
159°	932.6
160°	970.3
161°	1010.8



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CANDELA DISTRIBUTION (continued):

	0°
162°	1052.2
163°	1091.5
164°	1129.5
165°	1163.8
166°	1193.9
167°	1220.7
168°	1245.3
169°	1267.1
170°	1288.4
171°	1307.2
172°	1324.3
173°	1338.1
174°	1345.3
175°	1346.1
176°	1342.3
177°	1336.1
178°	1329.4
179°	1326.0
180°	1326.4

(END OF REPORT)