

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: P221919

Luminaire Tested: **9004-W2-[RW, RI]-LED5080-M-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221919
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29492)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9004-W2-[RW, RI]-LED5080-M-BK-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, MEDIUM FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 5000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2149.4 lumens
Efficiency: N/A
Efficacy: 109.1 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

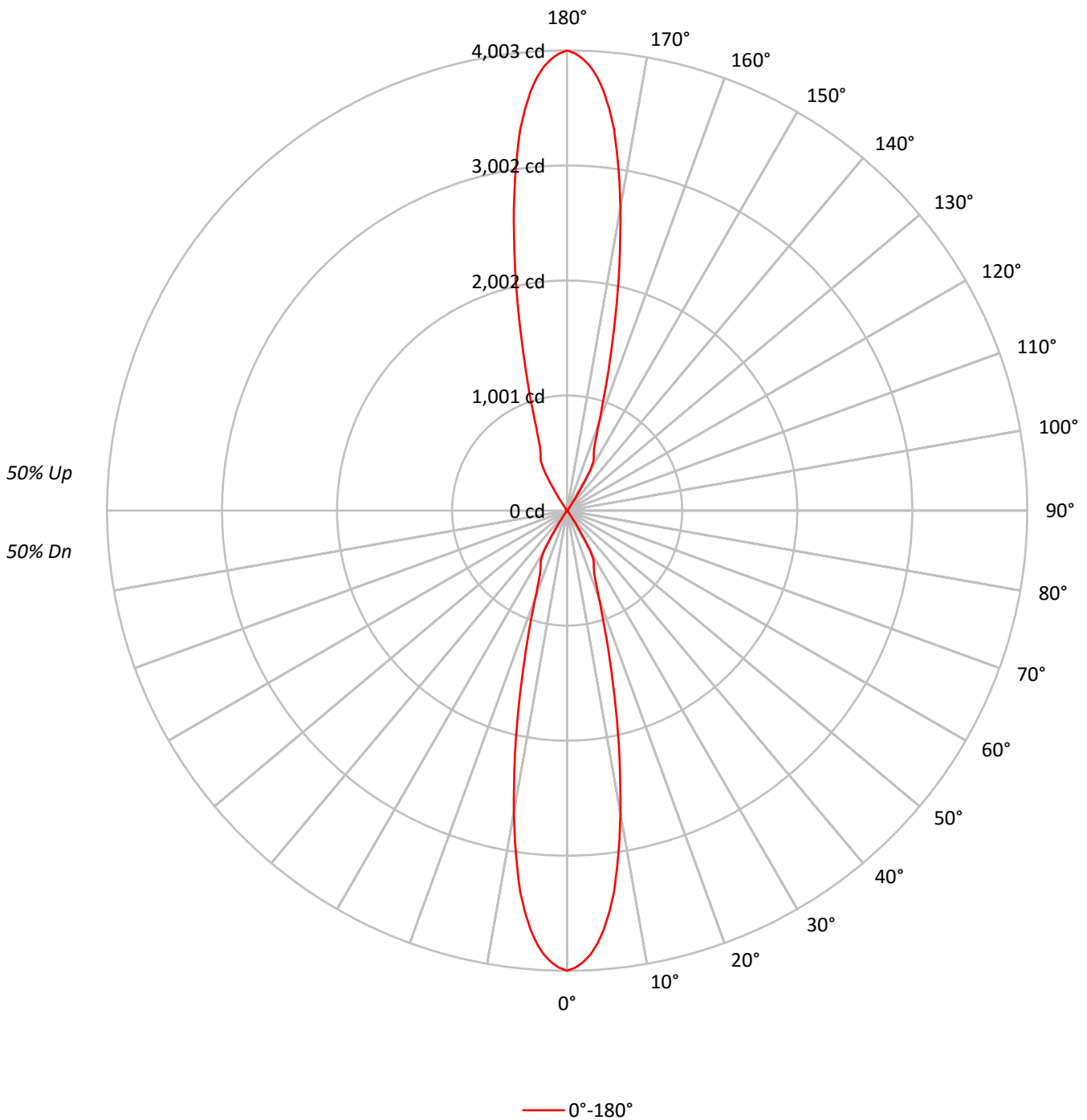
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P221919

CATALOG NUMBER: 9004-W2-[RW, RI]-LED5080-M-BK-L1-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P221919

CATALOG NUMBER: 9004-W2-[RW, RI]-LED5080-M-BK-L1-UNV

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	92	93	91	88	86	77	76	74		65	64	63		54	54	53	48
2	95	89	85	81	88	83	80	77	72	70	67		62	60	59		52	51	50	46
3	89	82	77	73	83	77	73	69	68	64	62		59	57	55		50	49	48	44
4	84	76	71	66	79	72	67	63	64	60	57		56	53	51		48	47	46	43
5	80	71	65	61	75	67	62	58	60	56	53		53	51	49		47	45	44	41
6	76	67	61	57	71	63	58	54	57	53	50		51	48	46		45	43	42	40
7	72	63	57	53	68	60	55	51	54	50	47		49	46	44		43	42	40	38
8	68	59	53	50	64	57	51	48	51	48	45		47	44	42		42	40	39	37
9	65	56	51	47	62	54	49	45	49	45	43		45	42	40		41	39	37	36
10	62	53	48	44	59	51	46	43	47	43	41		43	40	38		39	37	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	493765
5°	453021
10°	334238
15°	195095
20°	105797
25°	74772
30°	54179
35°	6731
40°	2303
45°	907
50°	576
55°	473
60°	321
65°	263
70°	144
75°	191
80°	284
85°	0



TEST NUMBER: P221919

CATALOG NUMBER: 9004-W2-[RW, RI]-LED5080-M-BK-L1-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.2	14.8
10°-20°	425.4	19.8
20°-30°	258.1	12.0
30°-40°	66.0	3.1
40°-50°	4.7	0.2
50°-60°	1.9	0.1
60°-70°	0.8	0.0
70°-80°	0.4	0.0
80°-90°	0.1	0.0
90°-100°	0.1	0.0
100°-110°	0.4	0.0
110°-120°	0.8	0.0
120°-130°	1.9	0.1
130°-140°	4.7	0.2
140°-150°	66.0	3.1
150°-160°	258.1	12.0
160°-170°	425.4	19.8
170°-180°	317.2	14.8
0°-30°	1000.7	46.6
0°-40°	1066.8	49.6
0°-60°	1073.4	49.9
0°-90°	1074.7	50.0
90°-120°	1.3	0.1
90°-150°	74.0	3.4
90°-180°	1075.0	50.0
0°-180°	2149.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4003	
5°	3659	317
15°	1528	425
25°	549	258
35°	45	66
45°	5	5
55°	2	2
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	1	1
125°	2	2
135°	5	5
145°	45	66
155°	549	258
165°	1528	425
175°	3659	317
180°	4003	



TEST NUMBER: P221919

CATALOG NUMBER: 9004-W2-[RW, RI]-LED5080-M-BK-L1-UNV

CANDELA DISTRIBUTION (FULL):

0°	
0°	4003.1
1°	3977.5
2°	3931.9
3°	3866.8
4°	3777.7
5°	3658.8
6°	3510.2
7°	3343.0
8°	3129.4
9°	2901.4
10°	2668.6
11°	2423.7
12°	2183.1
13°	1952.9
14°	1731.9
15°	1527.8
16°	1345.4
17°	1180.8
18°	1034.0
19°	910.2
20°	806.0
21°	723.9
22°	658.8
23°	610.6
24°	576.3
25°	549.4
26°	527.6
27°	509.0
28°	486.8
29°	446.4
30°	380.4
32.5°	181.1
35°	44.7
37.5°	24.3
40°	14.3
42.5°	6.5
45°	5.2
47.5°	4.3
50°	3.0
52.5°	2.6
55°	2.2
57.5°	1.7
60°	1.3
62.5°	1.3
65°	0.9



TEST NUMBER: P221919

CATALOG NUMBER: 9004-W2-[RW, RI]-LED5080-M-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.4
70°	0.4
72.5°	0.4
75°	0.4
77.5°	0.4
80°	0.4
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°	0.4
102.5°	0.4
105°	0.4
107.5°	0.4
110°	0.4
112.5°	0.4
115°	0.9
117.5°	1.3
120°	1.3
122.5°	1.7
125°	2.2
127.5°	2.6
130°	3.0
132.5°	4.3
135°	5.2
137.5°	6.5
140°	14.3
142.5°	24.3
145°	44.7
147.5°	181.1
150°	380.4
151°	446.4
152°	486.8
153°	509.0
154°	527.6
155°	549.4
156°	576.3
157°	610.6
158°	658.8
159°	723.9
160°	806.0
161°	910.2



TEST NUMBER: P221919

CATALOG NUMBER: 9004-W2-[RW, RI]-LED5080-M-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	0°
162°	1034.0
163°	1180.8
164°	1345.4
165°	1527.8
166°	1731.9
167°	1952.9
168°	2183.1
169°	2423.7
170°	2668.6
171°	2901.4
172°	3129.4
173°	3343.0
174°	3510.2
175°	3658.8
176°	3777.7
177°	3866.8
178°	3931.9
179°	3977.5
180°	4003.1

(END OF REPORT)