

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: P221922

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221922
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29488)
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-WT-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, MEDIUM FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 5000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2299.7 lumens
Efficiency: N/A
Efficacy: 116.7 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

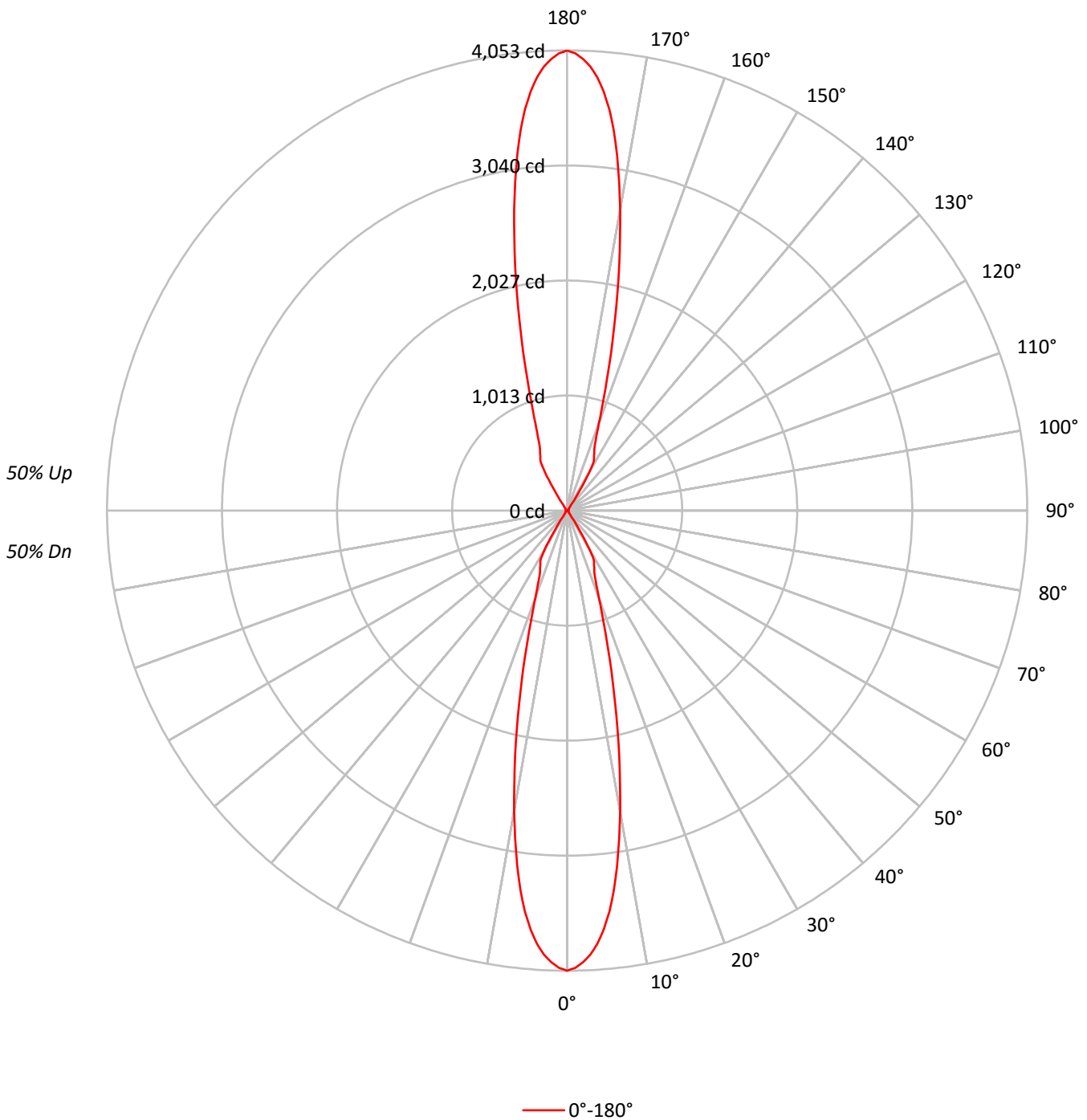
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P221922

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

Luminous Intensity Polar Plot





TEST NUMBER: P221922

CATALOG NUMBER: 9004-W2-[RW, RI]-LED5080-M-WT-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	100	97	94	92	93	90	88	85	77	75	74	65	64	63	54	53	52	47
2	94	89	84	80	87	83	79	75	71	69	66	61	59	58	51	50	49	45
3	88	81	76	72	82	76	72	68	67	63	61	57	55	53	49	48	47	43
4	83	75	69	65	78	71	66	62	62	59	56	54	52	50	47	46	44	41
5	79	70	64	59	73	66	61	57	59	55	52	52	49	47	45	44	42	39
6	75	65	59	55	70	62	57	53	55	51	48	49	46	44	44	42	40	38
7	71	61	55	51	66	58	53	49	53	49	46	47	44	42	42	40	39	36
8	67	58	52	48	63	55	50	46	50	46	43	45	42	40	41	39	37	35
9	64	55	49	45	60	52	47	44	48	44	41	43	40	38	39	37	36	34
10	61	52	46	43	58	50	45	41	46	42	39	42	39	37	38	36	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	499932
5°	458444
10°	336417
15°	197036
20°	107503
25°	76595
30°	56658
35°	8176
40°	4476
45°	3175
50°	3243
55°	3355
60°	3750
65°	4174
70°	4869
75°	6005
80°	7103
85°	6793



TEST NUMBER: P221922

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.5	13.9
10°-20°	429.1	18.7
20°-30°	264.9	11.5
30°-40°	73.8	3.2
40°-50°	14.9	0.6
50°-60°	14.2	0.6
60°-70°	14.3	0.6
70°-80°	12.9	0.6
80°-90°	5.4	0.2
90°-100°	5.4	0.2
100°-110°	12.9	0.6
110°-120°	14.3	0.6
120°-130°	14.2	0.6
130°-140°	14.9	0.6
140°-150°	73.8	3.2
150°-160°	264.9	11.5
160°-170°	429.1	18.7
170°-180°	320.5	13.9
0°-30°	1014.4	44.1
0°-40°	1088.2	47.3
0°-60°	1117.3	48.6
0°-90°	1149.9	50.0
90°-120°	32.6	1.4
90°-150°	135.5	5.9
90°-180°	1150.0	50.0
0°-180°	2299.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4053	
5°	3703	320
15°	1543	429
25°	563	265
35°	54	74
45°	18	15
55°	16	14
65°	14	14
75°	13	13
85°	5	5
90°	0	1
95°	5	5
105°	13	13
115°	14	14
125°	16	14
135°	18	15
145°	54	74
155°	563	265
165°	1543	429
175°	3703	320
180°	4053	



TEST NUMBER: P221922

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

CANDELA DISTRIBUTION (FULL):

0°	
0°	4053.1
1°	4027.9
2°	3981.4
3°	3915.4
4°	3824.6
5°	3702.6
6°	3551.5
7°	3371.7
8°	3157.2
9°	2926.6
10°	2686.0
11°	2441.0
12°	2199.2
13°	1963.3
14°	1744.5
15°	1543.0
16°	1357.5
17°	1191.2
18°	1045.3
19°	920.7
20°	819.0
21°	735.2
22°	672.3
23°	624.5
24°	588.9
25°	562.8
26°	541.5
27°	522.9
28°	505.1
29°	465.1
30°	397.8
32.5°	192.8
35°	54.3
37.5°	37.3
40°	27.8
42.5°	19.5
45°	18.2
47.5°	17.4
50°	16.9
52.5°	16.1
55°	15.6
57.5°	15.6
60°	15.2
62.5°	15.2
65°	14.3



TEST NUMBER: P221922

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

CANDELA DISTRIBUTION (continued):

	0°
67.5°	13.9
70°	13.5
72.5°	13.0
75°	12.6
77.5°	11.3
80°	10.0
82.5°	7.8
85°	4.8
87.5°	2.2
90°	0.0
92.5°	2.2
95°	4.8
97.5°	7.8
100°	10.0
102.5°	11.3
105°	12.6
107.5°	13.0
110°	13.5
112.5°	13.9
115°	14.3
117.5°	15.2
120°	15.2
122.5°	15.6
125°	15.6
127.5°	16.1
130°	16.9
132.5°	17.4
135°	18.2
137.5°	19.5
140°	27.8
142.5°	37.3
145°	54.3
147.5°	192.8
150°	397.8
151°	465.1
152°	505.1
153°	522.9
154°	541.5
155°	562.8
156°	588.9
157°	624.5
158°	672.3
159°	735.2
160°	819.0
161°	920.7



TEST NUMBER: P221922

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

CANDELA DISTRIBUTION (continued):

	0°
162°	1045.3
163°	1191.2
164°	1357.5
165°	1543.0
166°	1744.5
167°	1963.3
168°	2199.2
169°	2441.0
170°	2686.0
171°	2926.6
172°	3157.2
173°	3371.7
174°	3551.5
175°	3702.6
176°	3824.6
177°	3915.4
178°	3981.4
179°	4027.9
180°	4053.1

(END OF REPORT)