

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: P221929

Luminaire Tested: **9004-W2-[RW, RI]-LED5080-S-WT-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221929
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29487)
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-S-WT-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, SPOT OPTIC, WHITE HOUSING.
Light Source: (1) 5000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4235.9 lumens
Efficiency: N/A
Efficacy: 105.4 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

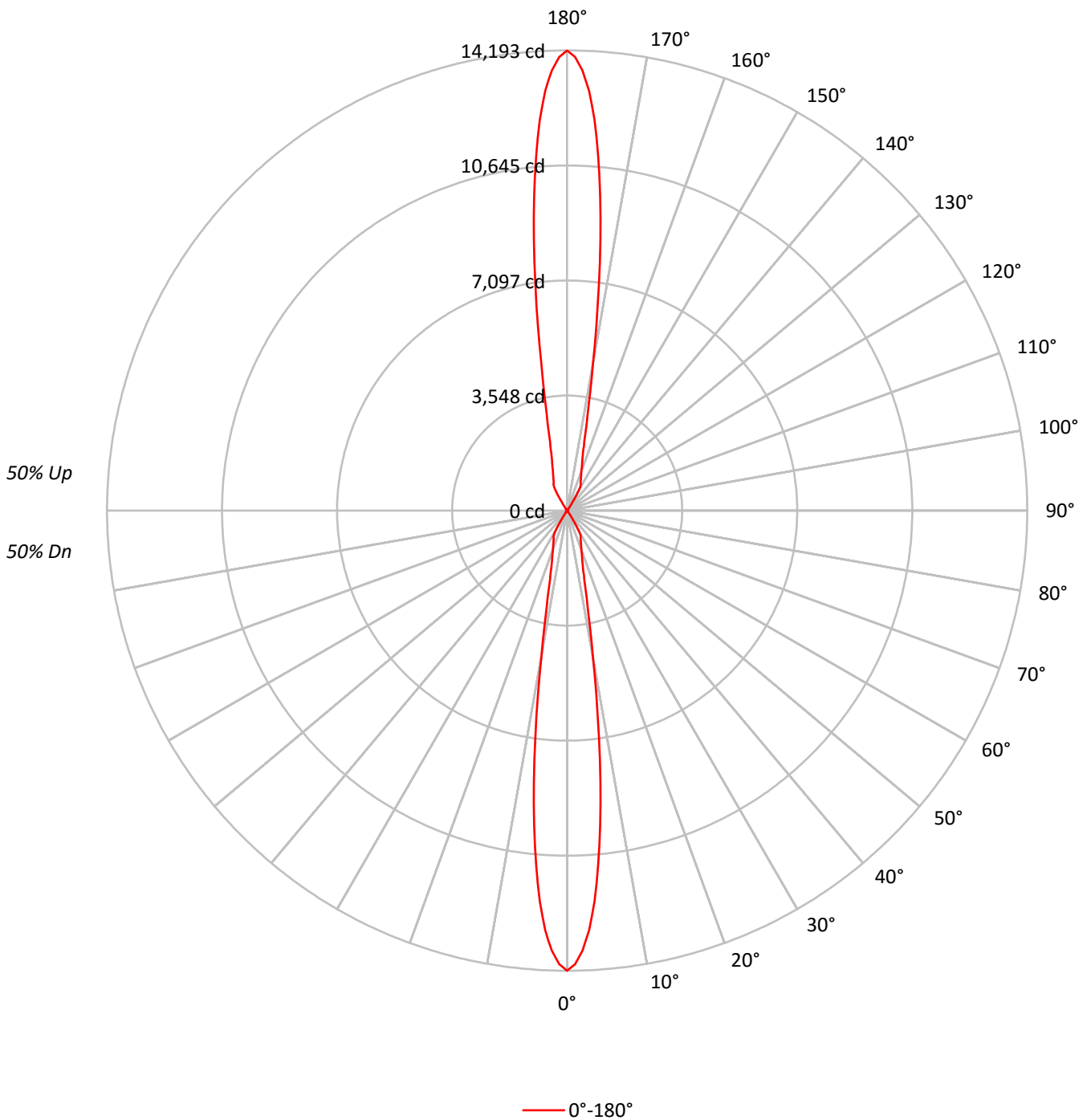
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P221929

CATALOG NUMBER: 9004-W2-[RW, RI]-LED5080-S-WT-L2-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P221929

CATALOG NUMBER: 9004-W2-[RW, RI]-LED5080-S-WT-L2-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	86	77	75	74		65	64	63		54	53	53	48
2	94	89	85	81	87	83	79	76	72	69	67		61	60	58		52	51	50	46
3	89	82	77	72	83	77	72	69	67	64	61		58	56	54		50	48	47	44
4	84	76	70	66	78	72	67	63	63	60	57		55	53	51		48	46	45	42
5	79	71	65	61	74	67	62	58	60	56	53		53	50	48		46	45	43	41
6	75	67	61	56	71	63	58	54	57	53	50		50	48	46		45	43	42	39
7	72	63	57	53	67	60	54	51	54	50	47		48	46	44		43	42	40	38
8	68	59	54	50	65	57	52	48	51	48	45		47	44	42		42	40	39	37
9	66	56	51	47	62	54	49	46	49	46	43		45	42	40		41	39	38	36
10	63	54	48	45	59	52	47	43	47	44	41		43	41	39		40	38	36	35

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1750607
5°	1360363
10°	576468
15°	246455
20°	168304
25°	134123
30°	100269
35°	13281
40°	7101
45°	5181
50°	5546
55°	6043
60°	6735
65°	7734
70°	8980
75°	10723
80°	12502
85°	12454



TEST NUMBER: P221929

CATALOG NUMBER: 9004-W2-[RW, RI]-LED5080-S-WT-L2-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	829.1	19.6
10°-20°	594.1	14.0
20°-30°	458.5	10.8
30°-40°	127.0	3.0
40°-50°	24.7	0.6
50°-60°	25.2	0.6
60°-70°	26.2	0.6
70°-80°	23.4	0.6
80°-90°	9.8	0.2
90°-100°	9.8	0.2
100°-110°	23.4	0.6
110°-120°	26.2	0.6
120°-130°	25.2	0.6
130°-140°	24.7	0.6
140°-150°	127.0	3.0
150°-160°	458.5	10.8
160°-170°	594.1	14.0
170°-180°	829.1	19.6
0°-30°	1881.7	44.4
0°-40°	2008.7	47.4
0°-60°	2058.6	48.6
0°-90°	2118.0	50.0
90°-120°	59.4	1.4
90°-150°	236.3	5.6
90°-180°	2118.0	50.0
0°-180°	4235.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14193	
5°	10987	829
15°	1930	594
25°	986	458
35°	88	127
45°	30	25
55°	28	25
65°	26	26
75°	22	23
85°	9	9
90°	0	1
95°	9	9
105°	22	23
115°	26	26
125°	28	25
135°	30	25
145°	88	127
155°	986	458
165°	1930	594
175°	10987	829
180°	14193	



TEST NUMBER: P221929

CATALOG NUMBER: 9004-W2-[RW, RI]-LED5080-S-WT-L2-UNV

CANDELA DISTRIBUTION (FULL):

	0°
0°	14192.7
1°	13993.8
2°	13581.7
3°	12955.4
4°	12084.6
5°	10986.9
6°	9747.2
7°	8438.6
8°	7021.8
9°	5737.2
10°	4602.6
11°	3708.5
12°	3030.2
13°	2539.4
14°	2192.2
15°	1930.0
16°	1735.2
17°	1589.3
18°	1474.6
19°	1374.4
20°	1282.2
22.5°	1110.6
25°	985.5
26°	953.4
27°	926.1
28°	893.3
29°	821.9
30°	704.0
32.5°	338.4
35°	88.2
37.5°	56.9
40°	44.1
42.5°	32.9
45°	29.7
47.5°	28.9
50°	28.9
52.5°	28.1
55°	28.1
57.5°	28.1
60°	27.3
62.5°	27.3
65°	26.5
67.5°	25.7
70°	24.9
72.5°	24.1



TEST NUMBER: P221929

CATALOG NUMBER: 9004-W2-[RW, RI]-LED5080-S-WT-L2-UNV

CANDELA DISTRIBUTION (continued):

	0°
75°	22.5
77.5°	20.8
80°	17.6
82.5°	14.4
85°	8.8
87.5°	4.0
90°	0.0
92.5°	4.0
95°	8.8
97.5°	14.4
100°	17.6
102.5°	20.8
105°	22.5
107.5°	24.1
110°	24.9
112.5°	25.7
115°	26.5
117.5°	27.3
120°	27.3
122.5°	28.1
125°	28.1
127.5°	28.1
130°	28.9
132.5°	28.9
135°	29.7
137.5°	32.9
140°	44.1
142.5°	56.9
145°	88.2
147.5°	338.4
150°	704.0
151°	821.9
152°	893.3
153°	926.1
154°	953.4
155°	985.5
157.5°	1110.6
160°	1282.2
161°	1374.4
162°	1474.6
163°	1589.3
164°	1735.2
165°	1930.0
166°	2192.2
167°	2539.4



TEST NUMBER: P221929

CATALOG NUMBER: 9004-W2-[RW, RI]-LED5080-S-WT-L2-UNV

CANDELA DISTRIBUTION (continued):

	0°
168°	3030.2
169°	3708.5
170°	4602.6
171°	5737.2
172°	7021.8
173°	8438.6
174°	9747.2
175°	10986.9
176°	12084.6
177°	12955.4
178°	13581.7
179°	13993.8
180°	14192.7

(END OF REPORT)