

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: P221926

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221926
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29491)
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-BK-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, SPOT OPTIC, BLACK HOUSING.
Light Source: (1) 5000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3980.2 lumens
Efficiency: N/A
Efficacy: 99.0 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

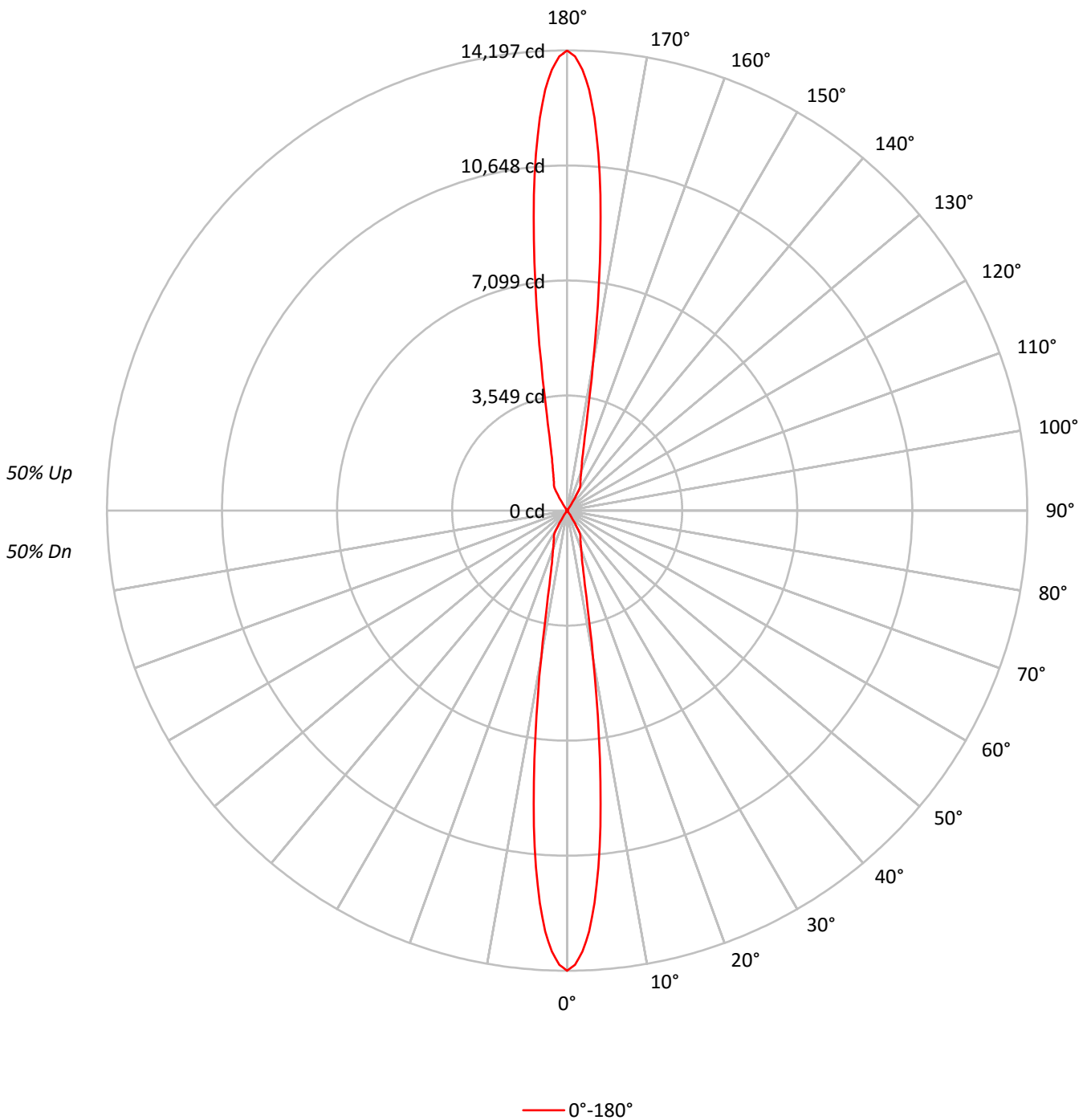
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P221926

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

Luminous Intensity Polar Plot





TEST NUMBER: P221926

CATALOG NUMBER: 9004-W2-[RW, RI]-LED5080-S-BK-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	101	98	95	93	93	91	88	86	78	76	75		65	65	64		54	54	53	48
2	95	90	86	82	88	84	80	77	73	70	68		62	61	59		53	52	51	47
3	90	83	78	74	83	78	74	70	68	65	63		59	57	56		51	50	49	45
4	85	77	72	68	79	73	68	64	64	61	58		57	54	53		49	48	47	44
5	81	72	67	62	75	68	63	60	61	57	55		54	52	50		48	46	45	42
6	77	68	62	58	72	65	60	56	58	54	52		52	49	48		46	45	43	41
7	73	64	58	54	69	61	56	53	55	52	49		50	47	45		45	43	42	40
8	70	61	55	51	66	58	53	50	53	49	47		48	46	44		44	42	41	39
9	67	58	52	49	63	56	51	47	51	47	45		47	44	42		42	41	39	38
10	64	55	50	47	61	53	48	45	49	45	43		45	42	41		41	40	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1751101
5°	1368101
10°	576268
15°	244207
20°	165350
25°	131279
30°	97192
35°	8809
40°	3220
45°	977
50°	768
55°	860
60°	592
65°	467
70°	289
75°	381
80°	568
85°	0



TEST NUMBER: P221926

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	831.8	20.9
10°-20°	587.7	14.8
20°-30°	448.8	11.3
30°-40°	110.0	2.8
40°-50°	5.9	0.1
50°-60°	3.2	0.1
60°-70°	1.6	0.0
70°-80°	0.8	0.0
80°-90°	0.3	0.0
90°-100°	0.5	0.0
100°-110°	0.8	0.0
110°-120°	1.6	0.0
120°-130°	3.2	0.1
130°-140°	5.9	0.1
140°-150°	110.0	2.8
150°-160°	448.8	11.3
160°-170°	587.7	14.8
170°-180°	831.8	20.9
0°-30°	1868.2	46.9
0°-40°	1978.3	49.7
0°-60°	1987.4	49.9
0°-90°	1990.1	50.0
90°-120°	3.0	0.1
90°-150°	122.1	3.1
90°-180°	1990.0	50.0
0°-180°	3980.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14197	
5°	11049	832
15°	1912	588
25°	965	449
35°	58	110
45°	6	6
55°	4	3
65°	2	2
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	2	2
125°	4	3
135°	6	6
145°	58	110
155°	965	449
165°	1912	588
175°	11049	832
180°	14197	



TEST NUMBER: P221926

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

CANDELA DISTRIBUTION (FULL):

	0°
0°	14196.7
1°	14014.7
2°	13613.7
3°	12998.7
4°	12137.5
5°	11049.4
6°	9798.6
7°	8424.2
8°	7040.2
9°	5773.3
10°	4601.0
11°	3672.5
12°	2992.5
13°	2511.4
14°	2169.0
15°	1912.4
16°	1715.1
17°	1571.6
18°	1457.8
19°	1351.1
20°	1259.7
22.5°	1086.5
25°	964.6
26°	931.7
27°	904.5
28°	877.2
29°	805.1
30°	682.4
32.5°	307.1
35°	58.5
37.5°	32.1
40°	20.0
42.5°	8.8
45°	5.6
47.5°	4.8
50°	4.0
52.5°	4.0
55°	4.0
57.5°	3.2
60°	2.4
62.5°	2.4
65°	1.6
67.5°	0.8
70°	0.8
72.5°	0.8



TEST NUMBER: P221926

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

CANDELA DISTRIBUTION (continued):

	0°
75°	0.8
77.5°	0.8
80°	0.8
82.5°	0.8
85°	0.0
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.8
100°	0.8
102.5°	0.8
105°	0.8
107.5°	0.8
110°	0.8
112.5°	0.8
115°	1.6
117.5°	2.4
120°	2.4
122.5°	3.2
125°	4.0
127.5°	4.0
130°	4.0
132.5°	4.8
135°	5.6
137.5°	8.8
140°	20.0
142.5°	32.1
145°	58.5
147.5°	307.1
150°	682.4
151°	805.1
152°	877.2
153°	904.5
154°	931.7
155°	964.6
157.5°	1086.5
160°	1259.7
161°	1351.1
162°	1457.8
163°	1571.6
164°	1715.1
165°	1912.4
166°	2169.0
167°	2511.4



TEST NUMBER: P221926

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

CANDELA DISTRIBUTION (continued):

	0°
168°	2992.5
169°	3672.5
170°	4601.0
171°	5773.3
172°	7040.2
173°	8424.2
174°	9798.6
175°	11049.4
176°	12137.5
177°	12998.7
178°	13613.7
179°	14014.7
180°	14196.7

(END OF REPORT)