

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: P222076

Luminaire Tested: **9004-W2-FL-LED3590-W-BK-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222076
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-LED3590-W-BK-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, WIDE FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3500K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3481.8 lumens
Efficiency: N/A
Efficacy: 86.6 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

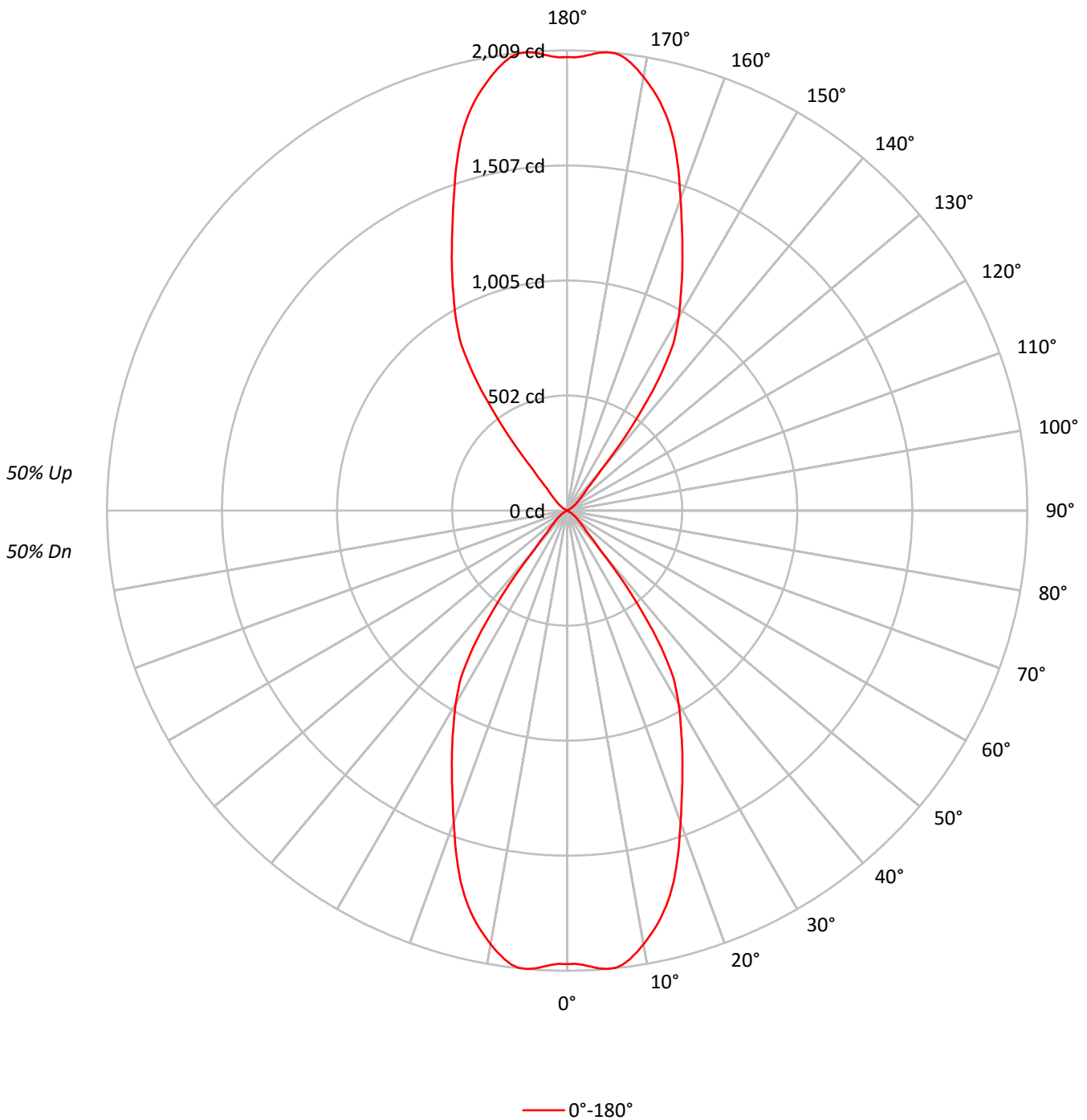
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	244187
5°	248748
10°	240840
15°	221809
20°	190080
25°	162105
30°	138624
35°	103627
40°	36776
45°	17199
50°	11379
55°	7656
60°	3848
65°	905
70°	685
75°	572
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.0	5.4
10°-20°	479.4	13.8
20°-30°	547.3	15.7
30°-40°	401.8	11.5
40°-50°	85.3	2.4
50°-60°	32.3	0.9
60°-70°	4.6	0.1
70°-80°	1.2	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	1.2	0.0
110°-120°	4.6	0.1
120°-130°	32.3	0.9
130°-140°	85.3	2.4
140°-150°	401.8	11.5
150°-160°	547.3	15.7
160°-170°	479.4	13.8
170°-180°	189.0	5.4
0°-30°	1215.8	34.9
0°-40°	1617.5	46.5
0°-60°	1735.1	49.8
0°-90°	1740.9	50.0
90°-120°	5.8	0.2
90°-150°	525.1	15.1
90°-180°	1741.0	50.0
0°-180°	3481.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1980	
5°	2009	189
15°	1737	479
25°	1191	547
35°	688	402
45°	99	85
55°	36	32
65°	3	5
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	3	5
125°	36	32
135°	99	85
145°	688	402
155°	1191	547
165°	1737	479
175°	2009	189
180°	1980	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1979.7
1°	1979.1
2°	1984.1
3°	1994.1
4°	2003.4
5°	2009.0
6°	2007.8
7°	1997.2
8°	1976.6
9°	1951.0
10°	1922.9
11°	1891.1
12°	1858.7
13°	1821.9
14°	1781.9
15°	1737.0
16°	1685.8
17°	1629.1
18°	1570.4
19°	1508.7
20°	1448.1
21°	1392.0
22°	1337.7
23°	1286.5
24°	1237.9
25°	1191.1
26°	1145.5
27°	1099.4
28°	1055.1
29°	1013.9
30°	973.3
32.5°	864.1
35°	688.2
37.5°	464.8
40°	228.4
42.5°	128.5
45°	98.6
47.5°	77.4
50°	59.3
52.5°	46.8
55°	35.6
57.5°	25.6
60°	15.6
62.5°	4.4
65°	3.1



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	2.5
70°	1.9
72.5°	1.9
75°	1.2
77.5°	0.6
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°	0.6
105°	1.2
107.5°	1.9
110°	1.9
112.5°	2.5
115°	3.1
117.5°	4.4
120°	15.6
122.5°	25.6
125°	35.6
127.5°	46.8
130°	59.3
132.5°	77.4
135°	98.6
137.5°	128.5
140°	228.4
142.5°	464.8
145°	688.2
147.5°	864.1
150°	973.3
151°	1013.9
152°	1055.1
153°	1099.4
154°	1145.5
155°	1191.1
156°	1237.9
157°	1286.5
158°	1337.7
159°	1392.0
160°	1448.1
161°	1508.7



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CANDELA DISTRIBUTION (continued):

	0°
162°	1570.4
163°	1629.1
164°	1685.8
165°	1737.0
166°	1781.9
167°	1821.9
168°	1858.7
169°	1891.1
170°	1922.9
171°	1951.0
172°	1976.6
173°	1997.2
174°	2007.8
175°	2009.0
176°	2003.4
177°	1994.1
178°	1984.1
179°	1979.1
180°	1979.7

(END OF REPORT)