

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: P221830

Luminaire Tested: **9004-W2-[RW, RI]-LED3590-S-BK-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221830
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]-LED3590-S-BK-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, SPOT OPTIC, BLACK HOUSING.
Light Source: (1) 3500K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3097.0 lumens
Efficiency: N/A
Efficacy: 77.0 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

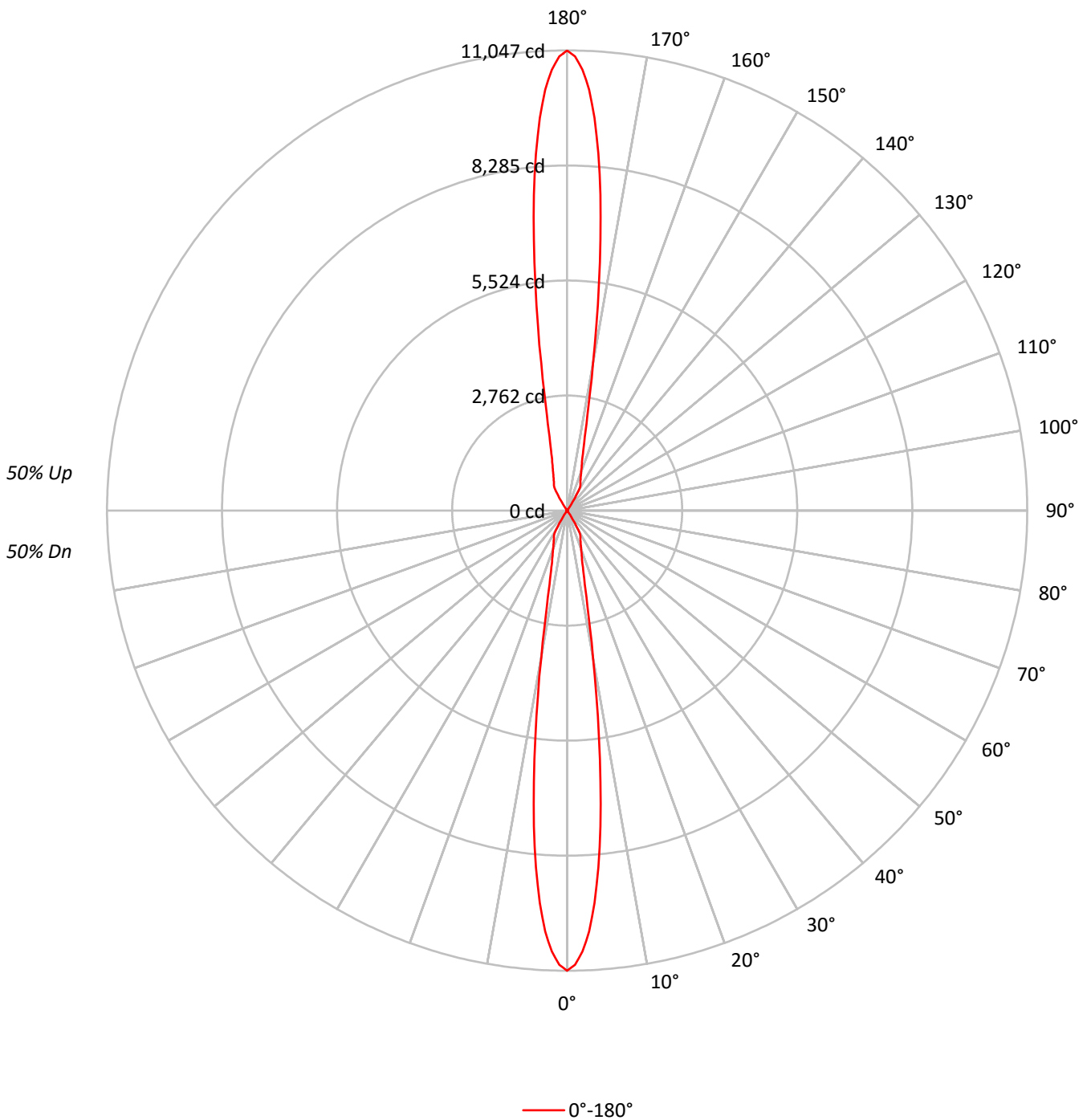
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1362550
5°	1064540
10°	448402
15°	190026
20°	128663
25°	102154
30°	75629
35°	6851
40°	2512
45°	768
50°	595
55°	667
60°	469
65°	350
70°	216
75°	286
80°	426
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	647.2	20.9
10°-20°	457.3	14.8
20°-30°	349.2	11.3
30°-40°	85.6	2.8
40°-50°	4.6	0.1
50°-60°	2.5	0.1
60°-70°	1.2	0.0
70°-80°	0.6	0.0
80°-90°	0.2	0.0
90°-100°	0.4	0.0
100°-110°	0.6	0.0
110°-120°	1.2	0.0
120°-130°	2.5	0.1
130°-140°	4.6	0.1
140°-150°	85.6	2.8
150°-160°	349.2	11.3
160°-170°	457.3	14.8
170°-180°	647.2	20.9
0°-30°	1453.7	46.9
0°-40°	1539.3	49.7
0°-60°	1546.4	49.9
0°-90°	1548.5	50.0
90°-120°	2.3	0.1
90°-150°	95.0	3.1
90°-180°	1549.0	50.0
0°-180°	3097.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11047	
5°	8598	647
15°	1488	457
25°	751	349
35°	46	86
45°	4	5
55°	3	3
65°	1	1
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	1	1
125°	3	3
135°	4	5
145°	46	86
155°	751	349
165°	1488	457
175°	8598	647
180°	11047	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	11046.6
1°	10905.0
2°	10593.0
3°	10114.4
4°	9444.3
5°	8597.7
6°	7624.4
7°	6555.0
8°	5478.1
9°	4492.3
10°	3580.1
11°	2857.6
12°	2328.5
13°	1954.1
14°	1687.7
15°	1488.1
16°	1334.6
17°	1222.9
18°	1134.3
19°	1051.3
20°	980.2
22.5°	845.4
25°	750.6
26°	725.0
27°	703.8
28°	682.6
29°	626.4
30°	531.0
32.5°	239.0
35°	45.5
37.5°	25.0
40°	15.6
42.5°	6.9
45°	4.4
47.5°	3.7
50°	3.1
52.5°	3.1
55°	3.1
57.5°	2.5
60°	1.9
62.5°	1.9
65°	1.2
67.5°	0.6
70°	0.6
72.5°	0.6



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CANDELA DISTRIBUTION (continued):

	0°
75°	0.6
77.5°	0.6
80°	0.6
82.5°	0.6
85°	0.0
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.6
100°	0.6
102.5°	0.6
105°	0.6
107.5°	0.6
110°	0.6
112.5°	0.6
115°	1.2
117.5°	1.9
120°	1.9
122.5°	2.5
125°	3.1
127.5°	3.1
130°	3.1
132.5°	3.7
135°	4.4
137.5°	6.9
140°	15.6
142.5°	25.0
145°	45.5
147.5°	239.0
150°	531.0
151°	626.4
152°	682.6
153°	703.8
154°	725.0
155°	750.6
157.5°	845.4
160°	980.2
161°	1051.3
162°	1134.3
163°	1222.9
164°	1334.6
165°	1488.1
166°	1687.7
167°	1954.1



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CANDELA DISTRIBUTION (continued):

	0°
168°	2328.5
169°	2857.6
170°	3580.1
171°	4492.3
172°	5478.1
173°	6555.0
174°	7624.4
175°	8597.7
176°	9444.3
177°	10114.4
178°	10593.0
179°	10905.0
180°	11046.6

(END OF REPORT)