

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: P221454

Luminaire Tested: **9003-W2-[RW, RI]-LED3590-M-BK-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221454
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29473)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9003-W2-[RW, RI]-LED3590-M-BK-L2-UNV
Description: LUMIERE LANTERRA 9003 LED WALL LUMINAIRE, RECESSED LENS, MEDIUM FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3500K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2331.9 lumens
Efficiency: N/A
Efficacy: 58.0 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.4
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: General Diffuse

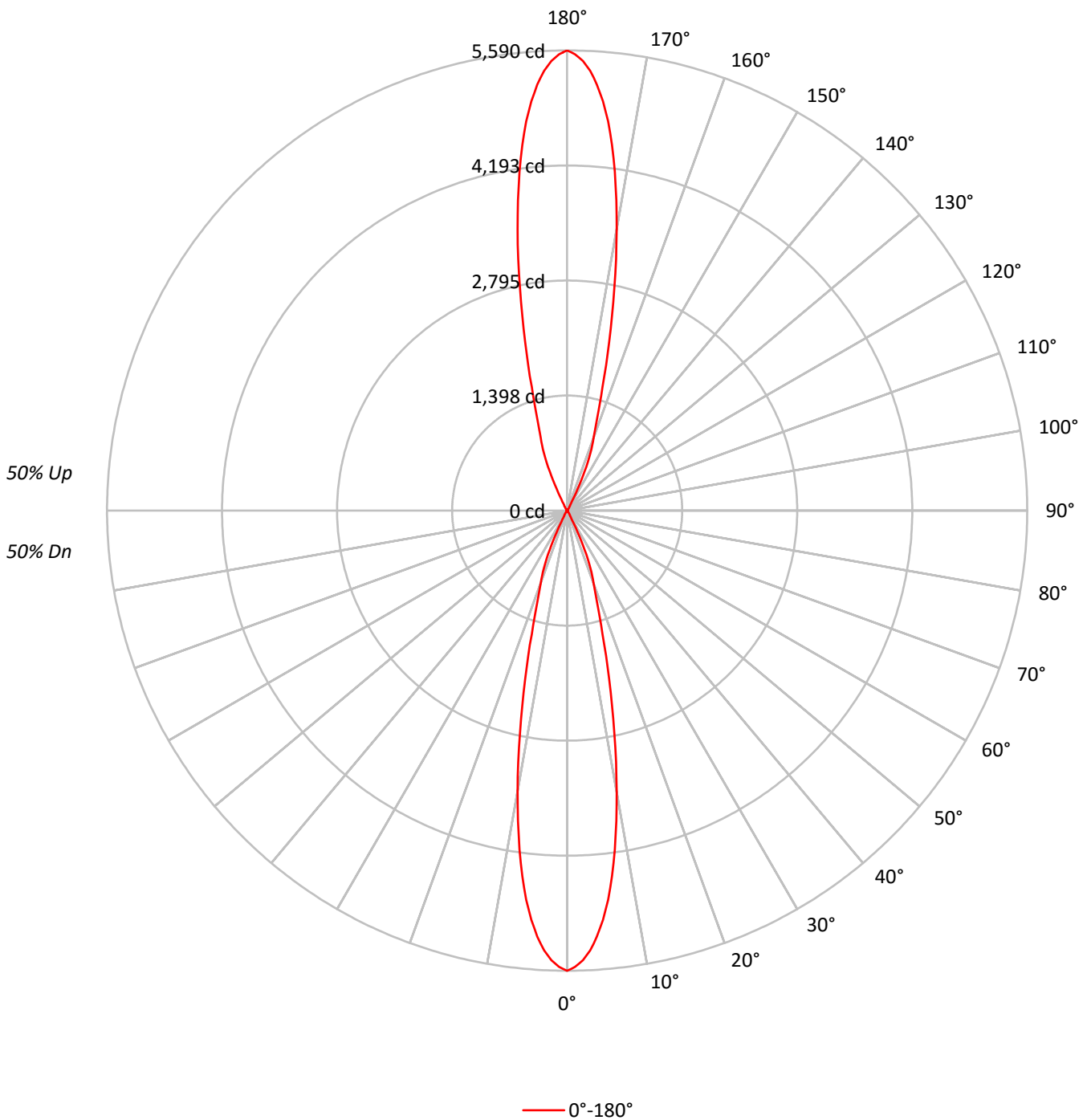
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	89	86	78	76	75	66	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	84	78	74	70	68	65	63	59	57	56	51	50	49	45
4	85	78	72	68	79	73	68	65	65	61	59	57	55	53	49	48	47	44
5	81	73	67	63	76	69	64	60	61	58	55	54	52	50	48	47	45	43
6	77	68	62	58	72	65	60	56	58	55	52	52	50	48	47	45	44	41
7	73	65	59	55	69	61	57	53	56	52	49	50	48	46	45	44	42	40
8	70	61	56	52	66	59	54	50	53	50	47	49	46	44	44	42	41	39
9	67	58	53	49	63	56	51	48	51	48	45	47	44	42	43	41	40	38
10	64	56	50	47	61	53	49	46	49	46	43	45	43	41	42	40	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1225867
5°	1098522
10°	771774
15°	414168
20°	217859
25°	97385
30°	18838
35°	6933
40°	3922
45°	3256
50°	2763
55°	2179
60°	1754
65°	1245
70°	513
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.0	18.3
10°-20°	514.6	22.1
20°-30°	187.7	8.1
30°-40°	20.8	0.9
40°-50°	8.1	0.3
50°-60°	5.1	0.2
60°-70°	2.4	0.1
70°-80°	0.3	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.5	0.0
110°-120°	2.4	0.1
120°-130°	5.1	0.2
130°-140°	8.1	0.3
140°-150°	20.8	0.9
150°-160°	187.7	8.1
160°-170°	514.6	22.1
170°-180°	427.0	18.3
0°-30°	1129.3	48.4
0°-40°	1150.0	49.3
0°-60°	1163.3	49.9
0°-90°	1166.0	50.0
90°-120°	2.9	0.1
90°-150°	36.9	1.6
90°-180°	1166.0	50.0
0°-180°	2331.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5590	
5°	4991	427
15°	1824	515
25°	402	188
35°	26	21
45°	10	8
55°	6	5
65°	2	2
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	1
115°	2	2
125°	6	5
135°	10	8
145°	26	21
155°	402	188
165°	1824	515
175°	4991	427
180°	5590	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5590.4
1°	5545.1
2°	5465.9
3°	5349.5
4°	5188.7
5°	4990.6
6°	4753.8
7°	4475.7
8°	4160.5
9°	3818.5
10°	3466.1
11°	3111.3
12°	2759.6
13°	2427.4
14°	2110.5
15°	1824.4
16°	1561.7
17°	1347.5
18°	1173.7
19°	1036.3
20°	933.6
21°	849.6
22°	753.4
23°	639.4
24°	520.6
25°	402.5
26°	290.2
27°	190.0
28°	119.6
29°	87.3
30°	74.4
32.5°	50.1
35°	25.9
37.5°	17.0
40°	13.7
42.5°	12.1
45°	10.5
47.5°	8.9
50°	8.1
52.5°	6.5
55°	5.7
57.5°	4.8
60°	4.0
62.5°	3.2
65°	2.4



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	1.6
70°	0.8
72.5°	0.8
75°	0.0
77.5°	0.0
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°	0.0
105°	0.0
107.5°	0.8
110°	0.8
112.5°	1.6
115°	2.4
117.5°	3.2
120°	4.0
122.5°	4.8
125°	5.7
127.5°	6.5
130°	8.1
132.5°	8.9
135°	10.5
137.5°	12.1
140°	13.7
142.5°	17.0
145°	25.9
147.5°	50.1
150°	74.4
151°	87.3
152°	119.6
153°	190.0
154°	290.2
155°	402.5
156°	520.6
157°	639.4
158°	753.4
159°	849.6
160°	933.6
161°	1036.3



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CANDELA DISTRIBUTION (continued):

	0°
162°	1173.7
163°	1347.5
164°	1561.7
165°	1824.4
166°	2110.5
167°	2427.4
168°	2759.6
169°	3111.3
170°	3466.1
171°	3818.5
172°	4160.5
173°	4475.7
174°	4753.8
175°	4990.6
176°	5188.7
177°	5349.5
178°	5465.9
179°	5545.1
180°	5590.4

(END OF REPORT)