

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: P221826

Luminaire Tested: **9004-W2-[RW, RI]-LED3590-M-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221826
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29488)
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-M-WT-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, MEDIUM FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 3500K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1789.5 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

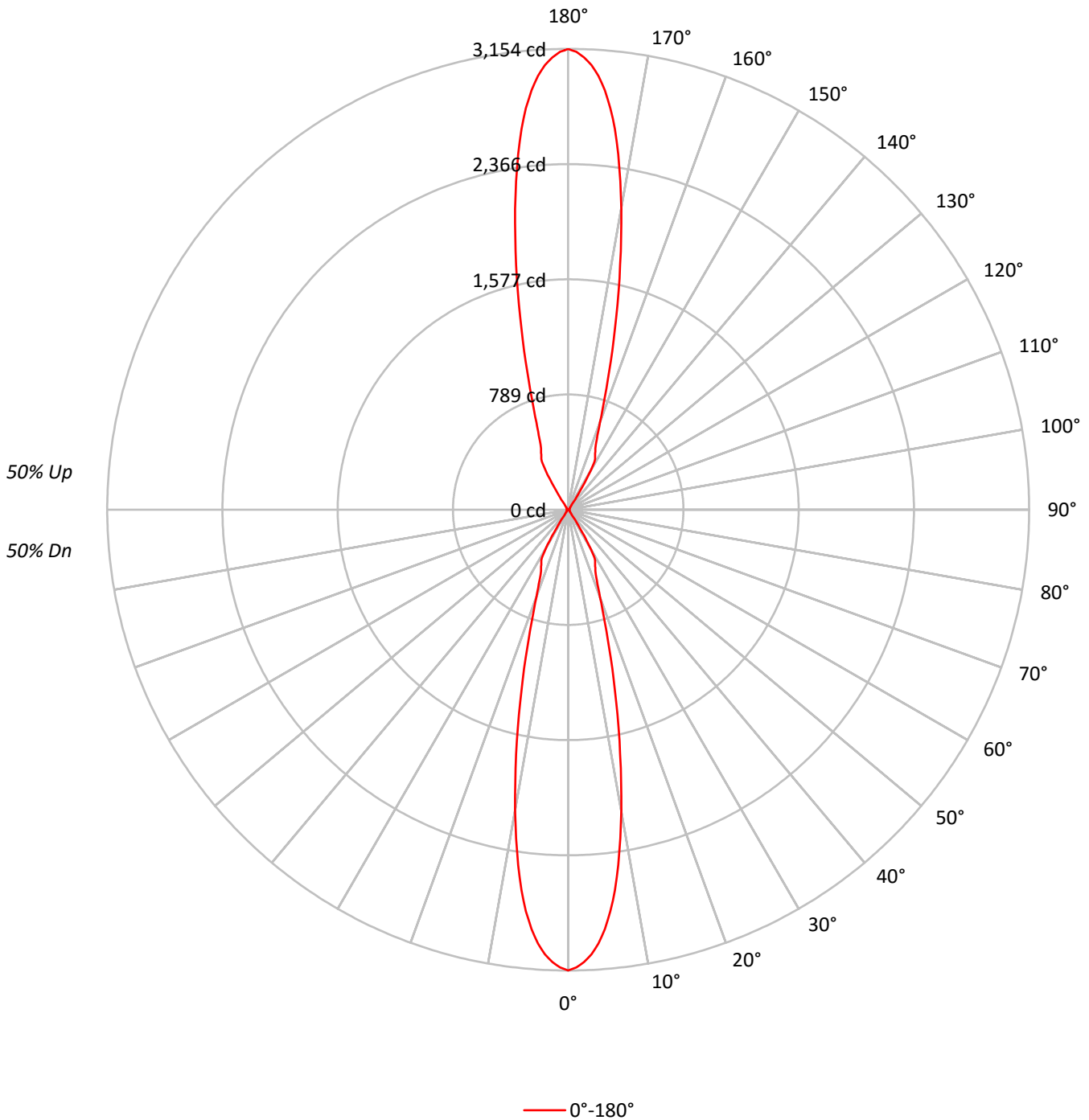
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	92	93	90	88	85	77	75	74		65	64	63		54	53	52	47
2	94	89	84	80	87	83	79	75	71	69	66		61	59	58		51	50	49	45
3	88	81	76	72	82	76	72	68	67	63	61		57	55	53		49	48	47	43
4	83	75	69	65	78	71	66	62	62	59	56		54	52	50		47	46	44	41
5	79	70	64	59	73	66	61	57	59	55	52		52	49	47		45	44	42	39
6	75	65	59	55	70	62	57	53	55	51	48		49	46	44		44	42	40	38
7	71	61	55	51	66	58	53	49	53	49	46		47	44	42		42	40	39	36
8	67	58	52	48	63	55	50	46	50	46	43		45	42	40		41	39	37	35
9	64	55	49	45	60	52	47	44	48	44	41		43	40	38		39	37	36	34
10	61	52	46	43	58	50	45	41	46	42	39		42	39	37		38	36	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	388995
5°	356716
10°	261769
15°	153313
20°	83653
25°	59597
30°	44081
35°	6354
40°	3478
45°	2477
50°	2533
55°	2624
60°	2911
65°	3269
70°	3787
75°	4670
80°	5540
85°	5236



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.3	13.9
10°-20°	333.9	18.7
20°-30°	206.1	11.5
30°-40°	57.4	3.2
40°-50°	11.6	0.6
50°-60°	11.1	0.6
60°-70°	11.1	0.6
70°-80°	10.0	0.6
80°-90°	4.2	0.2
90°-100°	4.2	0.2
100°-110°	10.0	0.6
110°-120°	11.1	0.6
120°-130°	11.1	0.6
130°-140°	11.6	0.6
140°-150°	57.4	3.2
150°-160°	206.1	11.5
160°-170°	333.9	18.7
170°-180°	249.3	13.9
0°-30°	789.3	44.1
0°-40°	846.7	47.3
0°-60°	869.4	48.6
0°-90°	894.7	50.0
90°-120°	25.3	1.4
90°-150°	105.5	5.9
90°-180°	895.0	50.0
0°-180°	1789.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3154	
5°	2881	249
15°	1201	334
25°	438	206
35°	42	57
45°	14	12
55°	12	11
65°	11	11
75°	10	10
85°	4	4
90°	0	0
95°	4	4
105°	10	10
115°	11	11
125°	12	11
135°	14	12
145°	42	57
155°	438	206
165°	1201	334
175°	2881	249
180°	3154	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3153.7
1°	3134.1
2°	3098.0
3°	3046.6
4°	2976.0
5°	2881.0
6°	2763.4
7°	2623.6
8°	2456.6
9°	2277.2
10°	2090.0
11°	1899.4
12°	1711.2
13°	1527.7
14°	1357.4
15°	1200.6
16°	1056.3
17°	926.9
18°	813.4
19°	716.4
20°	637.3
21°	572.1
22°	523.1
23°	485.9
24°	458.2
25°	437.9
26°	421.4
27°	406.8
28°	393.0
29°	361.9
30°	309.5
32.5°	150.0
35°	42.2
37.5°	29.1
40°	21.6
42.5°	15.2
45°	14.2
47.5°	13.5
50°	13.2
52.5°	12.5
55°	12.2
57.5°	12.2
60°	11.8
62.5°	11.8
65°	11.2



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	10.8
70°	10.5
72.5°	10.1
75°	9.8
77.5°	8.8
80°	7.8
82.5°	6.1
85°	3.7
87.5°	1.7
90°	0.0
92.5°	1.7
95°	3.7
97.5°	6.1
100°	7.8
102.5°	8.8
105°	9.8
107.5°	10.1
110°	10.5
112.5°	10.8
115°	11.2
117.5°	11.8
120°	11.8
122.5°	12.2
125°	12.2
127.5°	12.5
130°	13.2
132.5°	13.5
135°	14.2
137.5°	15.2
140°	21.6
142.5°	29.1
145°	42.2
147.5°	150.0
150°	309.5
151°	361.9
152°	393.0
153°	406.8
154°	421.4
155°	437.9
156°	458.2
157°	485.9
158°	523.1
159°	572.1
160°	637.3
161°	716.4



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CANDELA DISTRIBUTION (continued):

	0°
162°	813.4
163°	926.9
164°	1056.3
165°	1200.6
166°	1357.4
167°	1527.7
168°	1711.2
169°	1899.4
170°	2090.0
171°	2277.2
172°	2456.6
173°	2623.6
174°	2763.4
175°	2881.0
176°	2976.0
177°	3046.6
178°	3098.0
179°	3134.1
180°	3153.7

(END OF REPORT)