

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: P221827

Luminaire Tested: **9004-W2-[RW, RI]-LED3590-M-WT-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221827
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-L2-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: 3304.1 lumens
Efficiency: N/A
Efficacy: 82.2 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

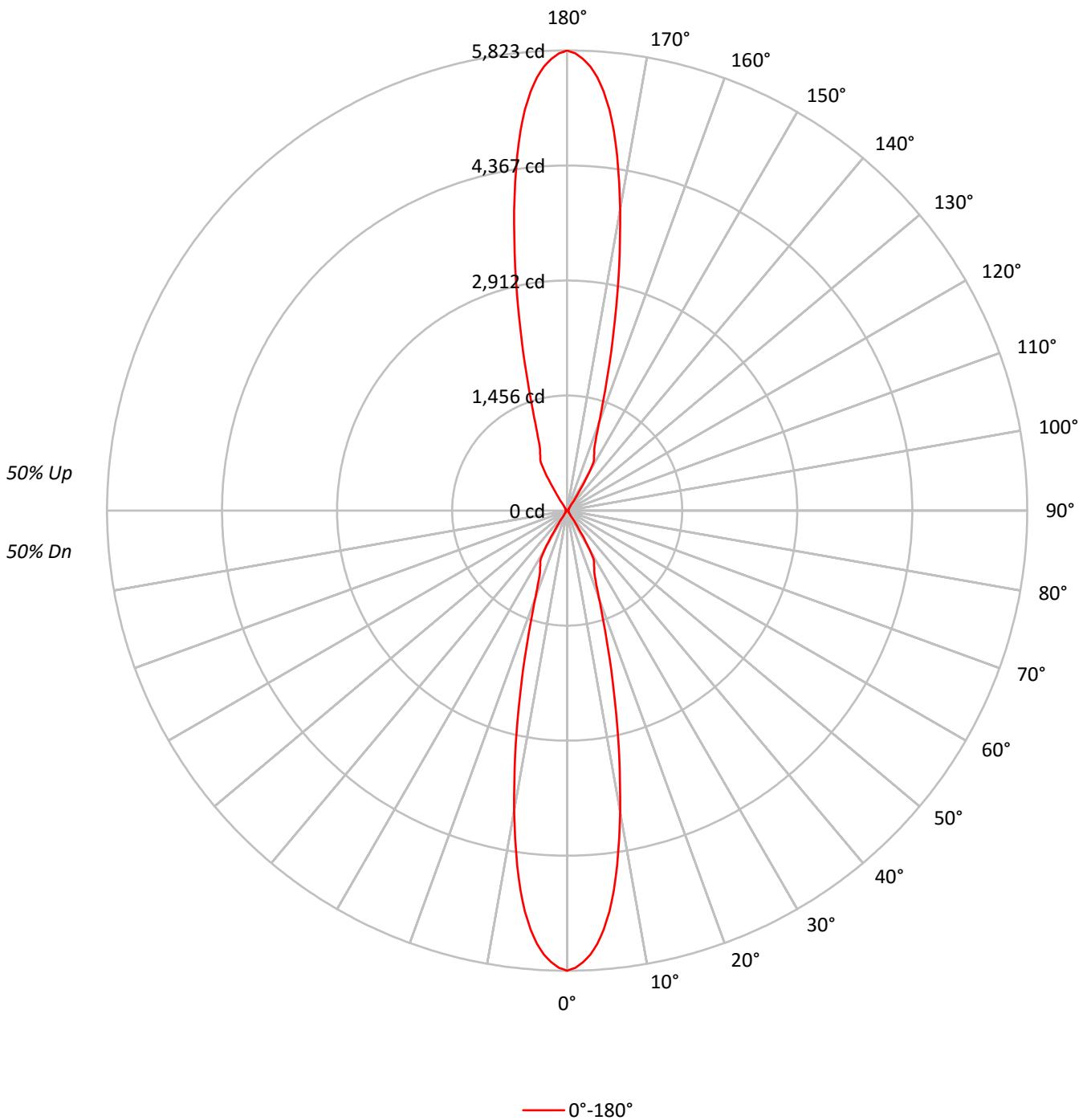
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	718254
5°	658656
10°	483334
15°	283078
20°	154456
25°	110048
30°	81397
35°	11745
40°	6425
45°	4570
50°	4663
55°	4839
60°	5378
65°	6012
70°	6960
75°	8626
80°	10229
85°	9765



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	460.4	13.9
10°-20°	616.4	18.7
20°-30°	380.5	11.5
30°-40°	106.1	3.2
40°-50°	21.4	0.6
50°-60°	20.4	0.6
60°-70°	20.6	0.6
70°-80°	18.5	0.6
80°-90°	7.7	0.2
90°-100°	7.7	0.2
100°-110°	18.5	0.6
110°-120°	20.6	0.6
120°-130°	20.4	0.6
130°-140°	21.4	0.6
140°-150°	106.1	3.2
150°-160°	380.5	11.5
160°-170°	616.4	18.7
170°-180°	460.4	13.9
0°-30°	1457.4	44.1
0°-40°	1563.4	47.3
0°-60°	1605.3	48.6
0°-90°	1652.0	50.0
90°-120°	46.7	1.4
90°-150°	194.7	5.9
90°-180°	1652.0	50.0
0°-180°	3304.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5823	
5°	5320	460
15°	2217	616
25°	809	381
35°	78	106
45°	26	21
55°	22	20
65°	21	21
75°	18	18
85°	7	7
90°	0	1
95°	7	7
105°	18	18
115°	21	21
125°	22	20
135°	26	21
145°	78	106
155°	809	381
165°	2217	616
175°	5320	460
180°	5823	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5823.1
1°	5786.9
2°	5720.1
3°	5625.3
4°	5494.9
5°	5319.6
6°	5102.5
7°	4844.2
8°	4535.9
9°	4204.6
10°	3859.0
11°	3507.1
12°	3159.6
13°	2820.8
14°	2506.3
15°	2216.8
16°	1950.4
17°	1711.4
18°	1501.8
19°	1322.7
20°	1176.7
21°	1056.3
22°	965.8
23°	897.2
24°	846.0
25°	808.6
26°	778.0
27°	751.2
28°	725.6
29°	668.2
30°	571.5
32.5°	277.0
35°	78.0
37.5°	53.7
40°	39.9
42.5°	28.1
45°	26.2
47.5°	25.0
50°	24.3
52.5°	23.1
55°	22.5
57.5°	22.5
60°	21.8
62.5°	21.8
65°	20.6



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	20.0
70°	19.3
72.5°	18.7
75°	18.1
77.5°	16.2
80°	14.4
82.5°	11.2
85°	6.9
87.5°	3.1
90°	0.0
92.5°	3.1
95°	6.9
97.5°	11.2
100°	14.4
102.5°	16.2
105°	18.1
107.5°	18.7
110°	19.3
112.5°	20.0
115°	20.6
117.5°	21.8
120°	21.8
122.5°	22.5
125°	22.5
127.5°	23.1
130°	24.3
132.5°	25.0
135°	26.2
137.5°	28.1
140°	39.9
142.5°	53.7
145°	78.0
147.5°	277.0
150°	571.5
151°	668.2
152°	725.6
153°	751.2
154°	778.0
155°	808.6
156°	846.0
157°	897.2
158°	965.8
159°	1056.3
160°	1176.7
161°	1322.7



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CANDELA DISTRIBUTION (continued):

	0°
162°	1501.8
163°	1711.4
164°	1950.4
165°	2216.8
166°	2506.3
167°	2820.8
168°	3159.6
169°	3507.1
170°	3859.0
171°	4204.6
172°	4535.9
173°	4844.2
174°	5102.5
175°	5319.6
176°	5494.9
177°	5625.3
178°	5720.1
179°	5786.9
180°	5823.1

(END OF REPORT)