

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: P222064

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222064
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29497)
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-M-BK-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH 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: 3526.6 lumens
Efficiency: N/A
Efficacy: 87.7 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

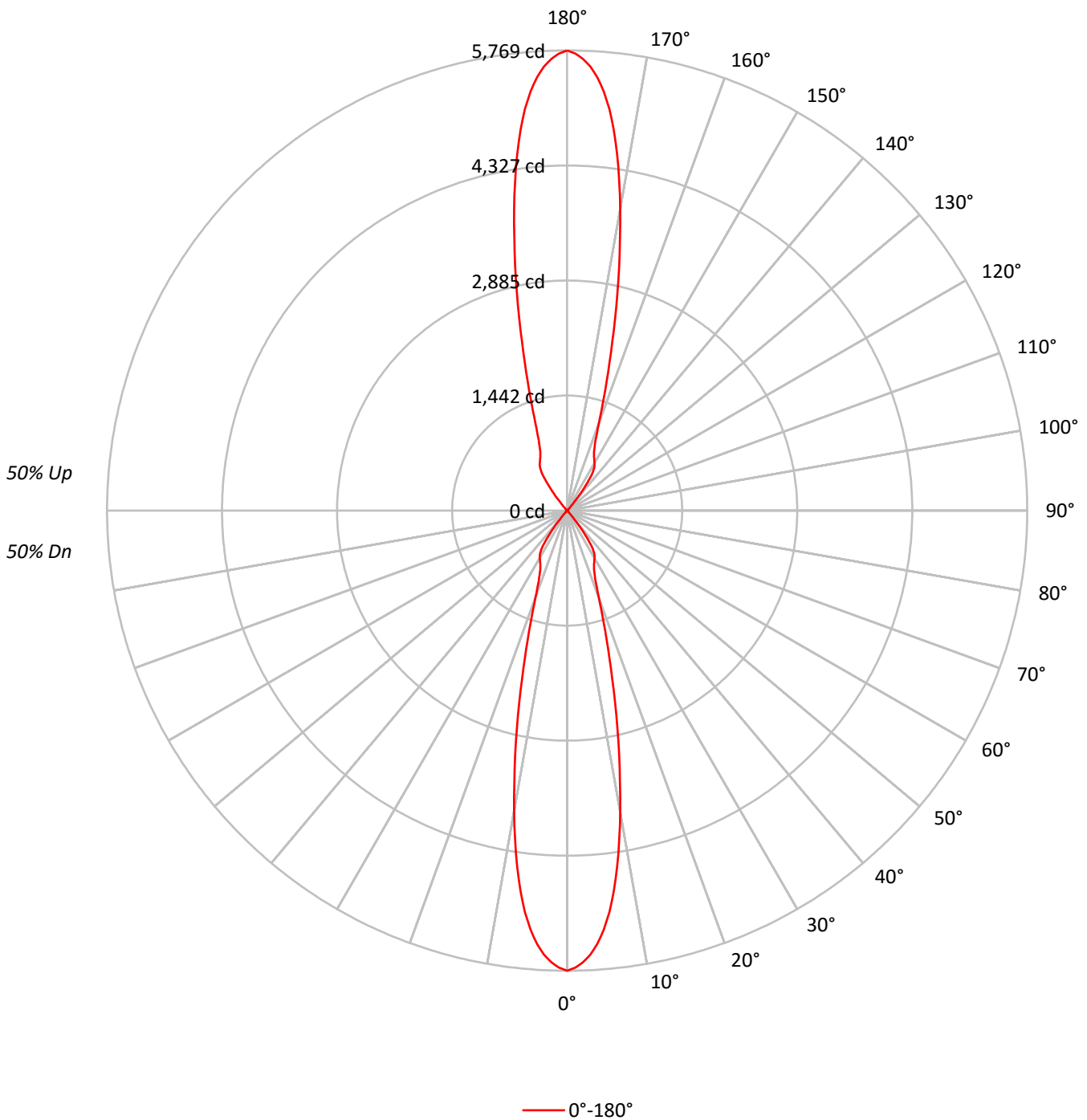
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	94	92	93	90	88	86	77	76	74		65	64	63		54	53	53	48
2	94	89	84	81	87	83	79	76	72	69	67		61	59	58		52	51	50	45
3	89	82	76	72	82	76	72	68	67	63	61		58	56	54		49	48	47	43
4	83	75	69	65	78	71	66	62	62	59	56		55	52	50		47	46	44	41
5	79	70	64	59	73	66	61	57	59	55	52		52	49	47		45	43	42	39
6	74	65	59	55	70	62	56	52	55	51	48		49	46	44		43	41	40	38
7	70	61	55	51	66	58	53	49	52	48	45		47	44	42		42	40	38	36
8	67	57	51	47	63	55	49	46	49	45	42		45	42	39		40	38	36	34
9	64	54	48	44	60	52	46	43	47	43	40		43	40	38		38	36	35	33
10	61	51	45	42	57	49	44	40	45	41	38		41	38	36		37	35	33	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	711630
5°	653010
10°	479814
15°	279337
20°	152329
25°	108265
30°	97577
35°	76855
40°	17084
45°	4675
50°	1554
55°	946
60°	617
65°	350
70°	216
75°	286
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	456.9	13.0
10°-20°	609.7	17.3
20°-30°	381.3	10.8
30°-40°	282.8	8.0
40°-50°	26.3	0.7
50°-60°	4.2	0.1
60°-70°	1.4	0.0
70°-80°	0.6	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.6	0.0
110°-120°	1.4	0.0
120°-130°	4.2	0.1
130°-140°	26.3	0.7
140°-150°	282.8	8.0
150°-160°	381.3	10.8
160°-170°	609.7	17.3
170°-180°	456.9	13.0
0°-30°	1447.9	41.1
0°-40°	1730.8	49.1
0°-60°	1761.3	49.9
0°-90°	1763.3	50.0
90°-120°	2.0	0.1
90°-150°	315.4	8.9
90°-180°	1763.0	50.0
0°-180°	3526.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5769	
5°	5274	457
15°	2188	610
25°	796	381
35°	510	283
45°	27	26
55°	4	4
65°	1	1
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	1	1
125°	4	4
135°	27	26
145°	510	283
155°	796	381
165°	2188	610
175°	5274	457
180°	5769	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5769.4
1°	5731.4
2°	5666.5
3°	5572.9
4°	5444.4
5°	5274.0
6°	5062.5
7°	4807.3
8°	4509.7
9°	4177.8
10°	3830.9
11°	3475.9
12°	3132.1
13°	2797.1
14°	2478.9
15°	2187.5
16°	1922.3
17°	1690.8
18°	1483.1
19°	1307.1
20°	1160.5
21°	1044.5
22°	951.5
23°	882.9
24°	832.3
25°	795.5
26°	768.1
27°	744.3
28°	722.5
29°	703.8
30°	685.1
32.5°	633.3
35°	510.4
37.5°	308.8
40°	106.1
42.5°	36.8
45°	26.8
47.5°	19.3
50°	8.1
52.5°	6.2
55°	4.4
57.5°	3.1
60°	2.5
62.5°	1.9
65°	1.2

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CANDELA DISTRIBUTION (continued):

	0°
67.5°	1.2
70°	0.6
72.5°	0.6
75°	0.6
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°	0.6
107.5°	0.6
110°	0.6
112.5°	1.2
115°	1.2
117.5°	1.9
120°	2.5
122.5°	3.1
125°	4.4
127.5°	6.2
130°	8.1
132.5°	19.3
135°	26.8
137.5°	36.8
140°	106.1
142.5°	308.8
145°	510.4
147.5°	633.3
150°	685.1
151°	703.8
152°	722.5
153°	744.3
154°	768.1
155°	795.5
156°	832.3
157°	882.9
158°	951.5
159°	1044.5
160°	1160.5
161°	1307.1



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CANDELA DISTRIBUTION (continued):

	0°
162°	1483.1
163°	1690.8
164°	1922.3
165°	2187.5
166°	2478.9
167°	2797.1
168°	3132.1
169°	3475.9
170°	3830.9
171°	4177.8
172°	4509.7
173°	4807.3
174°	5062.5
175°	5274.0
176°	5444.4
177°	5572.9
178°	5666.5
179°	5731.4
180°	5769.4

(END OF REPORT)