

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: P221839

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221839
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29490)
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-W-WT-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, WIDE FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 3500K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3241.6 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.84 / 0.83
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

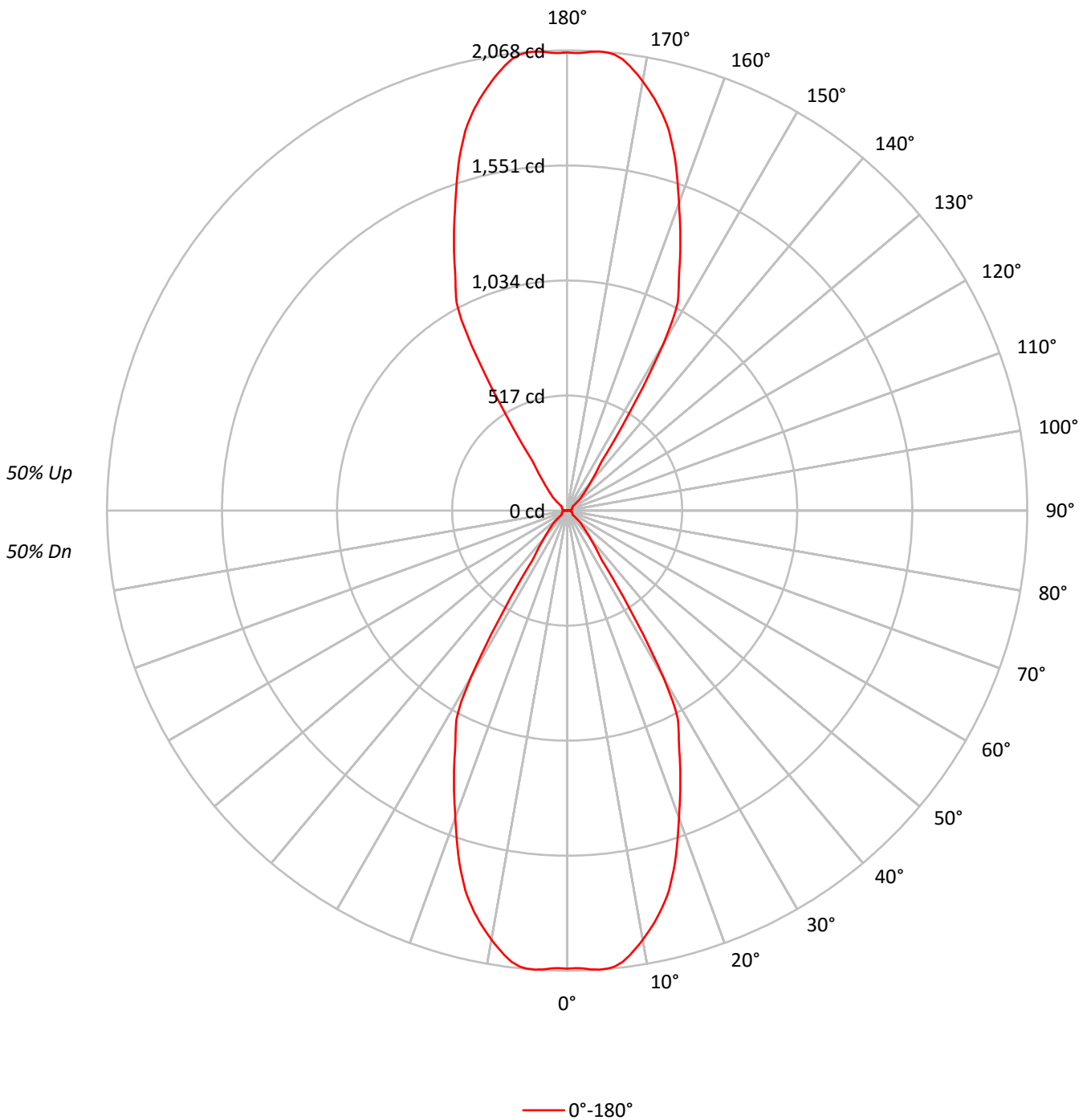
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	93	90	92	89	87	84	76	74	73	64	63	62	53	52	51	46
2	93	87	82	78	86	81	77	73	70	67	64	59	57	56	50	48	47	43
3	87	79	73	69	80	74	69	65	64	61	58	55	53	51	47	45	44	40
4	81	72	66	61	75	68	62	58	59	55	52	51	49	46	44	42	41	37
5	76	67	60	55	71	63	57	53	55	51	48	48	45	43	42	40	38	35
6	71	61	55	50	66	58	52	48	51	47	44	45	42	39	39	37	35	33
7	67	57	50	46	63	54	48	44	48	43	40	42	39	37	37	35	33	31
8	63	53	46	42	59	50	44	40	45	40	37	40	37	34	35	33	31	29
9	60	49	43	39	56	47	41	37	42	38	35	38	34	32	34	31	29	28
10	56	46	40	36	53	44	38	35	40	35	32	36	32	30	32	30	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	253882
5°	255942
10°	245224
15°	225640
20°	192863
25°	162350
30°	122715
35°	40776
40°	25924
45°	17636
50°	10305
55°	6172
60°	6784
65°	7472
70°	8547
75°	10389
80°	12431
85°	12313



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.8	6.0
10°-20°	487.3	15.0
20°-30°	545.9	16.8
30°-40°	228.3	7.0
40°-50°	79.3	2.4
50°-60°	28.8	0.9
60°-70°	25.4	0.8
70°-80°	22.6	0.7
80°-90°	9.5	0.3
90°-100°	9.5	0.3
100°-110°	22.6	0.7
110°-120°	25.4	0.8
120°-130°	28.8	0.9
130°-140°	79.3	2.4
140°-150°	228.3	7.0
150°-160°	545.9	16.8
160°-170°	487.3	15.0
170°-180°	193.8	6.0
0°-30°	1227.0	37.9
0°-40°	1455.2	44.9
0°-60°	1563.3	48.2
0°-90°	1620.8	50.0
90°-120°	57.4	1.8
90°-150°	393.8	12.1
90°-180°	1621.0	50.0
0°-180°	3241.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2058	
5°	2067	194
15°	1767	487
25°	1193	546
35°	271	228
45°	101	79
55°	29	29
65°	26	25
75°	22	23
85°	9	9
90°	0	1
95°	9	9
105°	22	23
115°	26	25
125°	29	29
135°	101	79
145°	271	228
155°	1193	546
165°	1767	487
175°	2067	194
180°	2058	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2058.3
1°	2056.5
2°	2058.3
3°	2064.6
4°	2068.3
5°	2067.1
6°	2059.6
7°	2043.4
8°	2017.8
9°	1989.1
10°	1957.9
11°	1924.8
12°	1891.1
13°	1853.1
14°	1812.5
15°	1767.0
16°	1712.7
17°	1655.9
18°	1594.8
19°	1531.1
20°	1469.3
21°	1411.9
22°	1356.4
23°	1301.5
24°	1247.9
25°	1192.9
26°	1144.9
27°	1102.5
28°	1058.8
29°	978.9
30°	861.6
32.5°	516.6
35°	270.8
37.5°	207.1
40°	161.0
42.5°	125.4
45°	101.1
47.5°	81.1
50°	53.7
52.5°	31.8
55°	28.7
57.5°	28.1
60°	27.5
62.5°	26.8
65°	25.6



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	24.3
70°	23.7
72.5°	23.1
75°	21.8
77.5°	20.0
80°	17.5
82.5°	13.7
85°	8.7
87.5°	3.7
90°	0.0
92.5°	3.7
95°	8.7
97.5°	13.7
100°	17.5
102.5°	20.0
105°	21.8
107.5°	23.1
110°	23.7
112.5°	24.3
115°	25.6
117.5°	26.8
120°	27.5
122.5°	28.1
125°	28.7
127.5°	31.8
130°	53.7
132.5°	81.1
135°	101.1
137.5°	125.4
140°	161.0
142.5°	207.1
145°	270.8
147.5°	516.6
150°	861.6
151°	978.9
152°	1058.8
153°	1102.5
154°	1144.9
155°	1192.9
156°	1247.9
157°	1301.5
158°	1356.4
159°	1411.9
160°	1469.3
161°	1531.1



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CANDELA DISTRIBUTION (continued):

	0°
162°	1594.8
163°	1655.9
164°	1712.7
165°	1767.0
166°	1812.5
167°	1853.1
168°	1891.1
169°	1924.8
170°	1957.9
171°	1989.1
172°	2017.8
173°	2043.4
174°	2059.6
175°	2067.1
176°	2068.3
177°	2064.6
178°	2058.3
179°	2056.5
180°	2058.3

(END OF REPORT)