

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: P221860

Luminaire Tested: **9004-W2-[RW, RI]-LED3597-W-BK-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221860
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29494)
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]-LED3597-W-BK-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, WIDE FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3500K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2950.1 lumens
Efficiency: N/A
Efficacy: 73.4 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.83
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

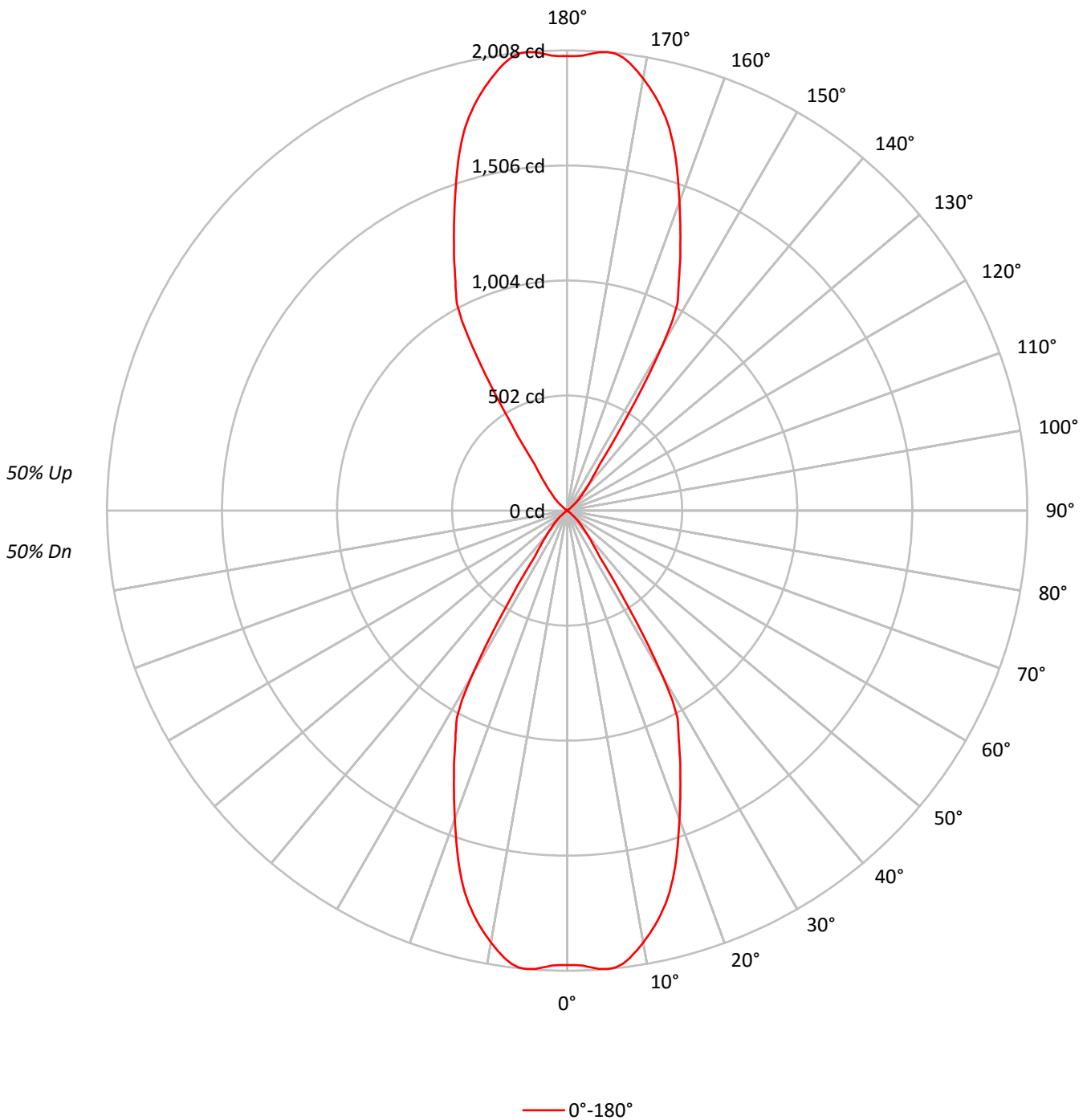
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	97	94	91	93	90	87	85	77	75	74	65	64	63	53	53	52	47
2	94	88	83	79	87	82	78	75	71	68	66	60	59	57	51	50	49	44
3	88	80	75	70	81	75	70	67	65	62	59	56	54	52	48	47	45	42
4	82	74	68	63	76	69	64	60	61	57	54	53	50	48	46	44	42	39
5	77	68	62	57	72	64	58	54	57	52	49	50	47	44	43	41	40	37
6	72	63	56	52	68	59	54	50	53	49	45	47	44	41	41	39	37	35
7	68	58	52	47	64	55	50	46	49	45	42	44	41	38	39	37	35	33
8	64	54	48	44	60	52	46	42	46	42	39	41	38	36	37	35	33	31
9	61	51	45	40	57	48	43	39	44	39	36	39	36	34	35	33	31	29
10	58	48	42	38	54	45	40	36	41	37	34	37	34	32	33	31	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	244681
5°	248674
10°	239713
15°	220328
20°	188111
25°	158036
30°	118300
35°	37132
40°	21995
45°	13362
50°	5565
55°	925
60°	617
65°	350
70°	216
75°	286
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.7	6.4
10°-20°	475.9	16.1
20°-30°	530.0	18.0
30°-40°	211.5	7.2
40°-50°	60.4	2.0
50°-60°	6.7	0.2
60°-70°	1.3	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°	1.3	0.0
120°-130°	6.7	0.2
130°-140°	60.4	2.0
140°-150°	211.5	7.2
150°-160°	530.0	18.0
160°-170°	475.9	16.1
170°-180°	188.7	6.4
0°-30°	1194.6	40.5
0°-40°	1406.1	47.7
0°-60°	1473.2	49.9
0°-90°	1475.1	50.0
90°-120°	1.8	0.1
90°-150°	280.4	9.5
90°-180°	1475.0	50.0
0°-180°	2950.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1984	
5°	2008	189
15°	1725	476
25°	1161	530
35°	247	211
45°	77	60
55°	4	7
65°	1	1
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	1	1
125°	4	7
135°	77	60
145°	247	211
155°	1161	530
165°	1725	476
175°	2008	189
180°	1984	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1983.7
1°	1983.1
2°	1986.8
3°	1996.1
4°	2004.7
5°	2008.4
6°	2005.9
7°	1993.0
8°	1970.7
9°	1943.5
10°	1913.9
11°	1881.7
12°	1848.4
13°	1811.3
14°	1770.5
15°	1725.4
16°	1672.9
17°	1616.6
18°	1555.4
19°	1493.0
20°	1433.1
21°	1375.0
22°	1319.4
23°	1265.0
24°	1213.7
25°	1161.2
26°	1111.7
27°	1069.1
28°	1024.6
29°	946.1
30°	830.6
32.5°	485.7
35°	246.6
37.5°	182.3
40°	136.6
42.5°	101.3
45°	76.6
47.5°	56.9
50°	29.0
52.5°	7.4
55°	4.3
57.5°	3.1
60°	2.5
62.5°	1.9
65°	1.2



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.6
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°	0.6
115°	1.2
117.5°	1.9
120°	2.5
122.5°	3.1
125°	4.3
127.5°	7.4
130°	29.0
132.5°	56.9
135°	76.6
137.5°	101.3
140°	136.6
142.5°	182.3
145°	246.6
147.5°	485.7
150°	830.6
151°	946.1
152°	1024.6
153°	1069.1
154°	1111.7
155°	1161.2
156°	1213.7
157°	1265.0
158°	1319.4
159°	1375.0
160°	1433.1
161°	1493.0



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CANDELA DISTRIBUTION (continued):

	0°
162°	1555.4
163°	1616.6
164°	1672.9
165°	1725.4
166°	1770.5
167°	1811.3
168°	1848.4
169°	1881.7
170°	1913.9
171°	1943.5
172°	1970.7
173°	1993.0
174°	2005.9
175°	2008.4
176°	2004.7
177°	1996.1
178°	1986.8
179°	1983.1
180°	1983.7

(END OF REPORT)