

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: P221862

Luminaire Tested: **9004-W2-[RW, RI]-LED3597-W-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221862
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]-LED3597-W-WT-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, WIDE FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 3500K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1738.9 lumens
Efficiency: N/A
Efficacy: 88.3 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

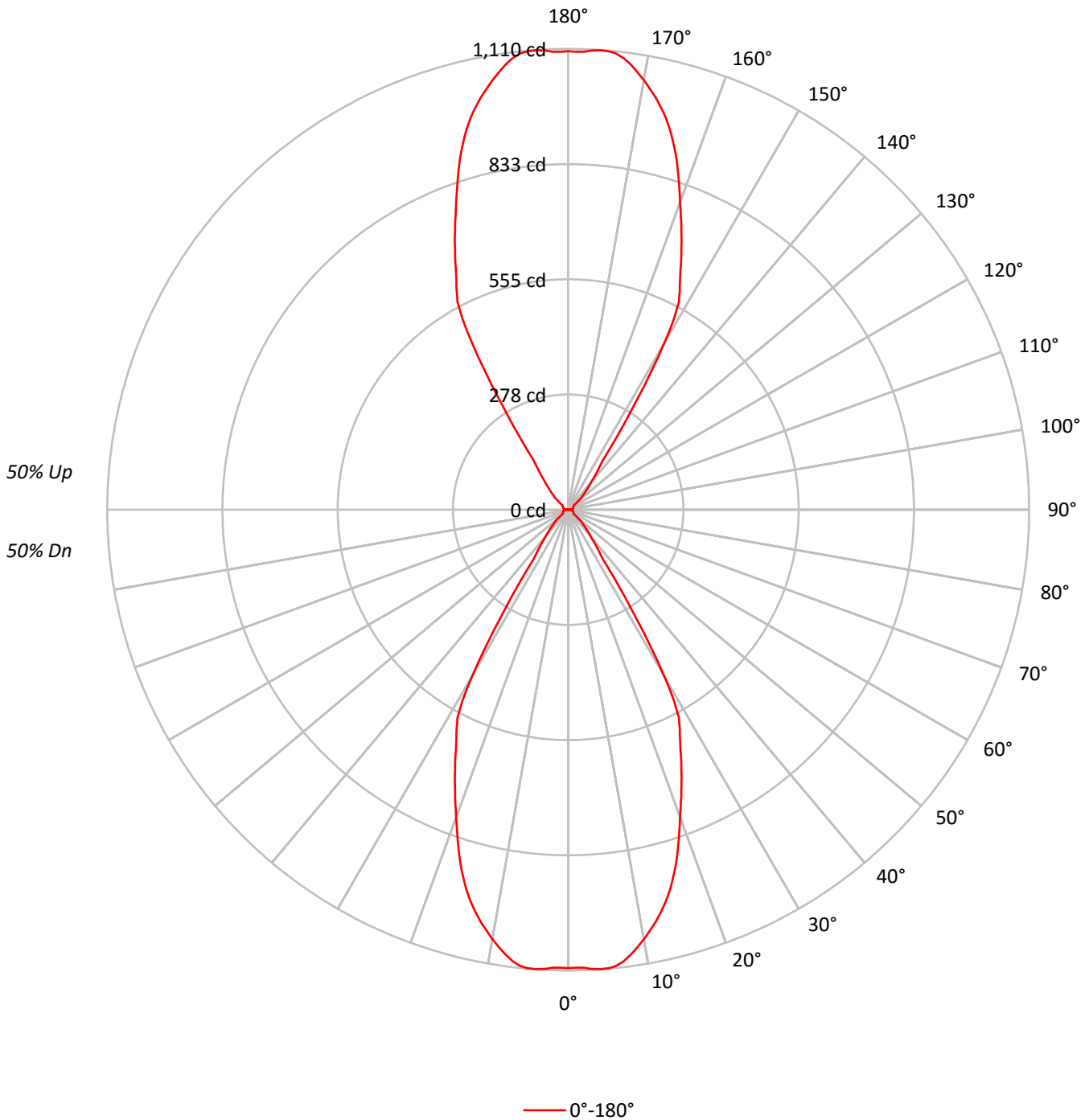
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	52	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°	136186
5°	137288
10°	131548
15°	121031
20°	103460
25°	87088
30°	65830
35°	21879
40°	13896
45°	9454
50°	5526
55°	3312
60°	3626
65°	3998
70°	4580
75°	5576
80°	6677
85°	6652



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.9	6.0
10°-20°	261.4	15.0
20°-30°	292.8	16.8
30°-40°	122.5	7.0
40°-50°	42.5	2.4
50°-60°	15.5	0.9
60°-70°	13.6	0.8
70°-80°	12.1	0.7
80°-90°	5.1	0.3
90°-100°	5.1	0.3
100°-110°	12.1	0.7
110°-120°	13.6	0.8
120°-130°	15.5	0.9
130°-140°	42.5	2.4
140°-150°	122.5	7.0
150°-160°	292.8	16.8
160°-170°	261.4	15.0
170°-180°	103.9	6.0
0°-30°	658.2	37.9
0°-40°	780.6	44.9
0°-60°	838.6	48.2
0°-90°	869.5	50.0
90°-120°	30.8	1.8
90°-150°	211.3	12.1
90°-180°	869.0	50.0
0°-180°	1738.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1104	
5°	1109	104
15°	948	261
25°	640	293
35°	145	122
45°	54	43
55°	15	15
65°	14	14
75°	12	12
85°	5	5
90°	0	1
95°	5	5
105°	12	12
115°	14	14
125°	15	15
135°	54	43
145°	145	122
155°	640	293
165°	948	261
175°	1109	104
180°	1104	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1104.1
1°	1103.1
2°	1104.1
3°	1107.5
4°	1109.5
5°	1108.8
6°	1104.8
7°	1096.1
8°	1082.4
9°	1067.0
10°	1050.3
11°	1032.5
12°	1014.4
13°	994.0
14°	972.3
15°	947.8
16°	918.7
17°	888.3
18°	855.5
19°	821.3
20°	788.2
21°	757.4
22°	727.6
23°	698.2
24°	669.4
25°	639.9
26°	614.2
27°	591.4
28°	568.0
29°	525.1
30°	462.2
32.5°	277.1
35°	145.3
37.5°	111.1
40°	86.3
42.5°	67.3
45°	54.2
47.5°	43.5
50°	28.8
52.5°	17.1
55°	15.4
57.5°	15.1
60°	14.7
62.5°	14.4
65°	13.7



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	13.1
70°	12.7
72.5°	12.4
75°	11.7
77.5°	10.7
80°	9.4
82.5°	7.4
85°	4.7
87.5°	2.0
90°	0.0
92.5°	2.0
95°	4.7
97.5°	7.4
100°	9.4
102.5°	10.7
105°	11.7
107.5°	12.4
110°	12.7
112.5°	13.1
115°	13.7
117.5°	14.4
120°	14.7
122.5°	15.1
125°	15.4
127.5°	17.1
130°	28.8
132.5°	43.5
135°	54.2
137.5°	67.3
140°	86.3
142.5°	111.1
145°	145.3
147.5°	277.1
150°	462.2
151°	525.1
152°	568.0
153°	591.4
154°	614.2
155°	639.9
156°	669.4
157°	698.2
158°	727.6
159°	757.4
160°	788.2
161°	821.3



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CANDELA DISTRIBUTION (continued):

	0°
162°	855.5
163°	888.3
164°	918.7
165°	947.8
166°	972.3
167°	994.0
168°	1014.4
169°	1032.5
170°	1050.3
171°	1067.0
172°	1082.4
173°	1096.1
174°	1104.8
175°	1108.8
176°	1109.5
177°	1107.5
178°	1104.1
179°	1103.1
180°	1104.1

(END OF REPORT)