

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: P222099

Luminaire Tested: **9004-W2-FL-LED3597-W-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222099
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29499)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9004-W2-FL-LED3597-W-BK-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH 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: 1867.6 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

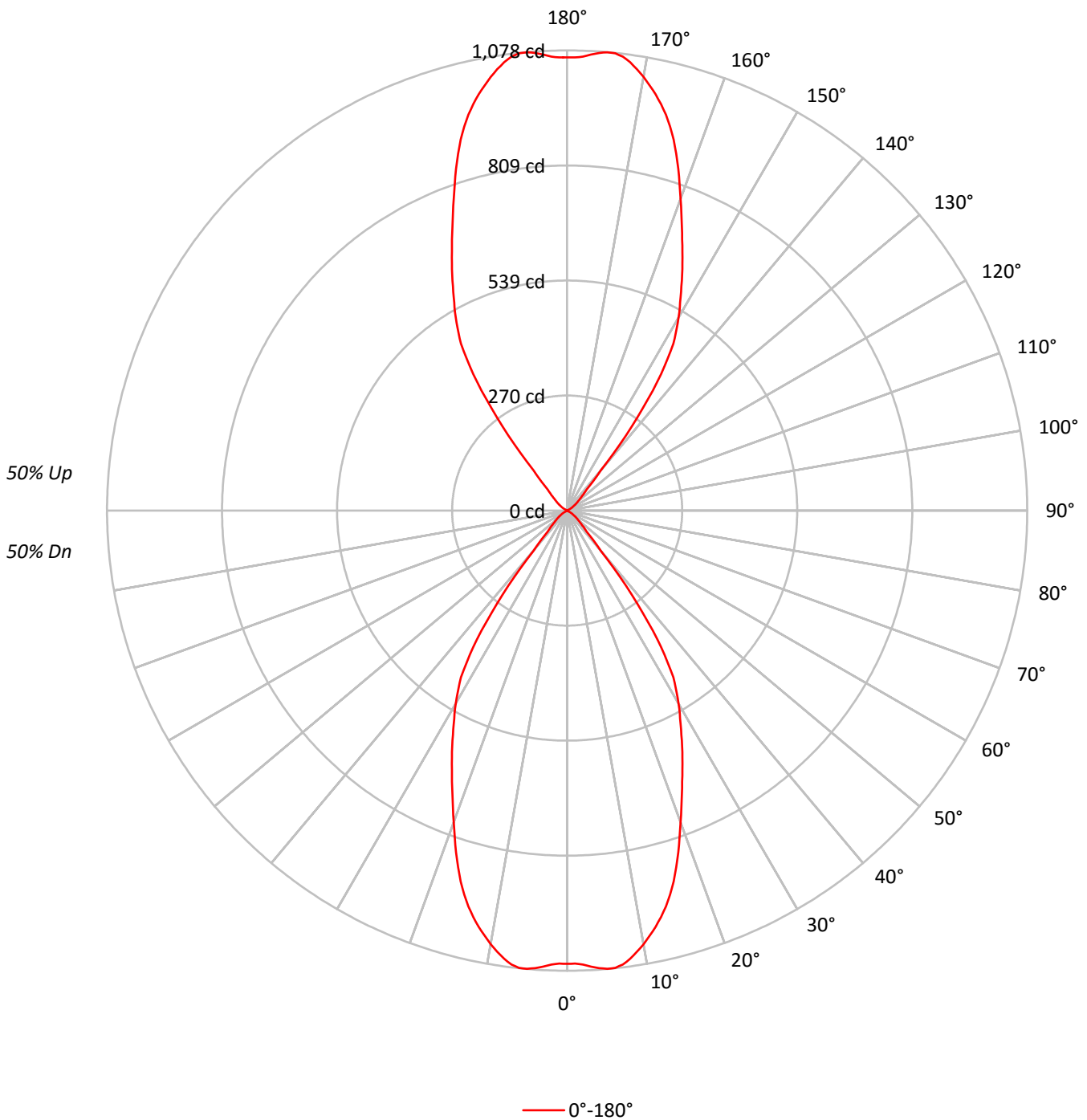
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	91	92	90	87	85	76	75	73		64	63	62		53	53	52	47
2	93	88	83	79	86	81	77	74	70	67	65		60	58	56		50	49	48	43
3	87	80	74	69	81	74	69	65	65	61	58		56	53	51		47	46	44	40
4	81	73	66	61	76	68	63	58	60	56	52		52	49	47		44	42	41	38
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	43		45	42	39		39	37	35	33
7	67	57	50	45	62	54	48	44	48	43	40		42	39	36		37	35	33	31
8	63	52	46	41	59	50	44	40	45	40	37		40	36	34		35	33	31	29
9	59	49	42	38	56	46	41	37	42	37	34		37	34	31		33	31	29	27
10	56	46	39	35	52	43	38	34	39	35	32		35	32	29		31	29	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	130993
5°	133437
10°	129194
15°	118988
20°	101964
25°	86952
30°	74361
35°	55593
40°	19724
45°	9228
50°	6102
55°	4107
60°	2072
65°	496
70°	361
75°	334
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.4	5.4
10°-20°	257.2	13.8
20°-30°	293.6	15.7
30°-40°	215.5	11.5
40°-50°	45.7	2.4
50°-60°	17.3	0.9
60°-70°	2.4	0.1
70°-80°	0.7	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.7	0.0
110°-120°	2.4	0.1
120°-130°	17.3	0.9
130°-140°	45.7	2.4
140°-150°	215.5	11.5
150°-160°	293.6	15.7
160°-170°	257.2	13.8
170°-180°	101.4	5.4
0°-30°	652.2	34.9
0°-40°	867.7	46.5
0°-60°	930.7	49.8
0°-90°	933.8	50.0
90°-120°	3.1	0.2
90°-150°	281.7	15.1
90°-180°	934.0	50.0
0°-180°	1867.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1062	
5°	1078	101
15°	932	257
25°	639	294
35°	369	216
45°	53	46
55°	19	17
65°	2	2
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	2	2
125°	19	17
135°	53	46
145°	369	216
155°	639	294
165°	932	257
175°	1078	101
180°	1062	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1062.0
1°	1061.6
2°	1064.3
3°	1069.7
4°	1074.7
5°	1077.7
6°	1077.0
7°	1071.3
8°	1060.3
9°	1046.6
10°	1031.5
11°	1014.4
12°	997.0
13°	977.3
14°	955.9
15°	931.8
16°	904.3
17°	873.9
18°	842.4
19°	809.3
20°	776.8
21°	746.7
22°	717.6
23°	690.1
24°	664.0
25°	638.9
26°	614.5
27°	589.7
28°	566.0
29°	543.9
30°	522.1
32.5°	463.5
35°	369.2
37.5°	249.3
40°	122.5
42.5°	68.9
45°	52.9
47.5°	41.5
50°	31.8
52.5°	25.1
55°	19.1
57.5°	13.7
60°	8.4
62.5°	2.3
65°	1.7



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	1.3
70°	1.0
72.5°	1.0
75°	0.7
77.5°	0.3
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°	0.3
105°	0.7
107.5°	1.0
110°	1.0
112.5°	1.3
115°	1.7
117.5°	2.3
120°	8.4
122.5°	13.7
125°	19.1
127.5°	25.1
130°	31.8
132.5°	41.5
135°	52.9
137.5°	68.9
140°	122.5
142.5°	249.3
145°	369.2
147.5°	463.5
150°	522.1
151°	543.9
152°	566.0
153°	589.7
154°	614.5
155°	638.9
156°	664.0
157°	690.1
158°	717.6
159°	746.7
160°	776.8
161°	809.3



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CANDELA DISTRIBUTION (continued):

	0°
162°	842.4
163°	873.9
164°	904.3
165°	931.8
166°	955.9
167°	977.3
168°	997.0
169°	1014.4
170°	1031.5
171°	1046.6
172°	1060.3
173°	1071.3
174°	1077.0
175°	1077.7
176°	1074.7
177°	1069.7
178°	1064.3
179°	1061.6
180°	1062.0

(END OF REPORT)