

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: P221847

Luminaire Tested: **9004-W2-[RW, RI]-LED3597-M-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221847
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29492)
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-M-BK-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, MEDIUM FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3500K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1656.5 lumens
Efficiency: N/A
Efficacy: 84.1 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

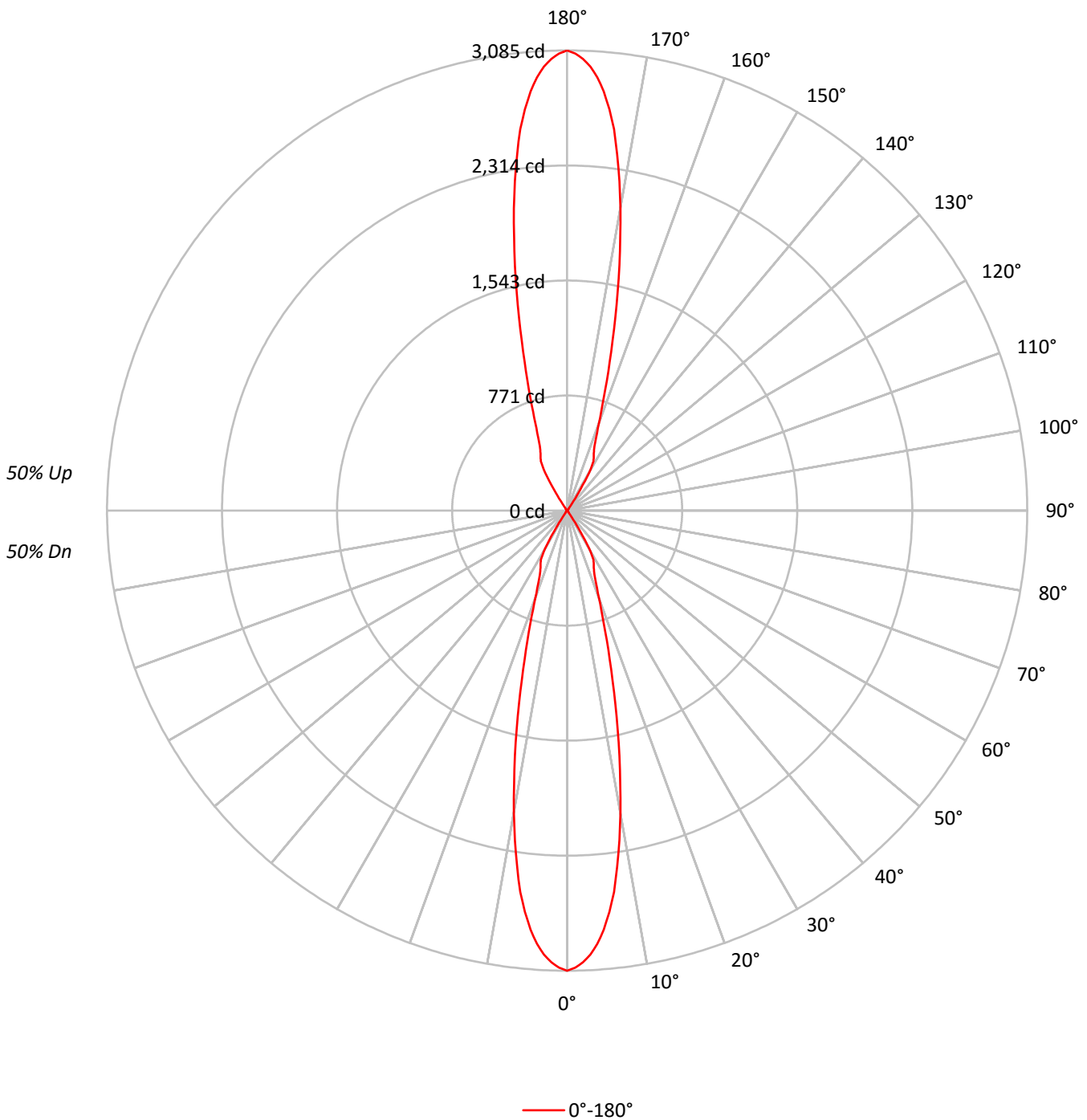
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	98	95	92	93	91	88	86	77	76	74	65	64	63	54	54	53	48				
2	95	89	85	81	88	83	80	77	72	70	67	62	60	59	52	51	50	46				
3	89	82	77	73	83	77	73	69	68	64	62	59	57	55	50	49	48	44				
4	84	76	71	66	79	72	67	63	64	60	57	56	53	51	48	47	46	43				
5	80	71	65	61	75	67	62	58	60	56	53	53	51	49	47	45	44	41				
6	76	67	61	57	71	63	58	54	57	53	50	51	48	46	45	43	42	40				
7	72	63	57	53	68	60	55	51	54	50	47	49	46	44	43	42	40	38				
8	68	59	53	50	64	57	51	48	51	48	45	47	44	42	42	40	39	37				
9	65	56	51	47	62	54	49	45	49	45	43	45	42	40	41	39	37	36				
10	62	53	48	44	59	51	46	43	47	43	41	43	40	38	39	37	36	34				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	380546
5°	349139
10°	257598
15°	150350
20°	81540
25°	57623
30°	41760
35°	5195
40°	1771
45°	698
50°	441
55°	366
60°	247
65°	204
70°	108
75°	143
80°	213
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.5	14.8
10°-20°	327.9	19.8
20°-30°	198.9	12.0
30°-40°	50.9	3.1
40°-50°	3.6	0.2
50°-60°	1.5	0.1
60°-70°	0.7	0.0
70°-80°	0.3	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.3	0.0
110°-120°	0.7	0.0
120°-130°	1.5	0.1
130°-140°	3.6	0.2
140°-150°	50.9	3.1
150°-160°	198.9	12.0
160°-170°	327.9	19.8
170°-180°	244.5	14.8
0°-30°	771.3	46.6
0°-40°	822.1	49.6
0°-60°	827.2	49.9
0°-90°	828.2	50.0
90°-120°	1.0	0.1
90°-150°	57.0	3.4
90°-180°	828.0	50.0
0°-180°	1656.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3085	
5°	2820	244
15°	1177	328
25°	423	199
35°	34	51
45°	4	4
55°	2	1
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	1	1
125°	2	1
135°	4	4
145°	34	51
155°	423	199
165°	1177	328
175°	2820	244
180°	3085	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3085.2
1°	3065.4
2°	3030.3
3°	2980.1
4°	2911.5
5°	2819.8
6°	2705.3
7°	2576.4
8°	2411.8
9°	2236.1
10°	2056.7
11°	1867.9
12°	1682.5
13°	1505.1
14°	1334.7
15°	1177.4
16°	1036.9
17°	910.0
18°	796.9
19°	701.5
20°	621.2
21°	557.9
22°	507.7
23°	470.6
24°	444.1
25°	423.4
26°	406.6
27°	392.3
28°	375.2
29°	344.1
30°	293.2
32.5°	139.6
35°	34.5
37.5°	18.7
40°	11.0
42.5°	5.0
45°	4.0
47.5°	3.3
50°	2.3
52.5°	2.0
55°	1.7
57.5°	1.3
60°	1.0
62.5°	1.0
65°	0.7



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.3
70°	0.3
72.5°	0.3
75°	0.3
77.5°	0.3
80°	0.3
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°	0.3
102.5°	0.3
105°	0.3
107.5°	0.3
110°	0.3
112.5°	0.3
115°	0.7
117.5°	1.0
120°	1.0
122.5°	1.3
125°	1.7
127.5°	2.0
130°	2.3
132.5°	3.3
135°	4.0
137.5°	5.0
140°	11.0
142.5°	18.7
145°	34.5
147.5°	139.6
150°	293.2
151°	344.1
152°	375.2
153°	392.3
154°	406.6
155°	423.4
156°	444.1
157°	470.6
158°	507.7
159°	557.9
160°	621.2
161°	701.5



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CANDELA DISTRIBUTION (continued):

	0°
162°	796.9
163°	910.0
164°	1036.9
165°	1177.4
166°	1334.7
167°	1505.1
168°	1682.5
169°	1867.9
170°	2056.7
171°	2236.1
172°	2411.8
173°	2576.4
174°	2705.3
175°	2819.8
176°	2911.5
177°	2980.1
178°	3030.3
179°	3065.4
180°	3085.2

(END OF REPORT)