

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: P222097

Luminaire Tested: **9004-W2-FL-LED3597-S-WT-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222097
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29496)
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-S-WT-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, SPOT OPTIC, WHITE HOUSING.
Light Source: (1) 3500K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3462.1 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Spacing Criteria (0/90/45): 0.27 / 0.27 / 0.27
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

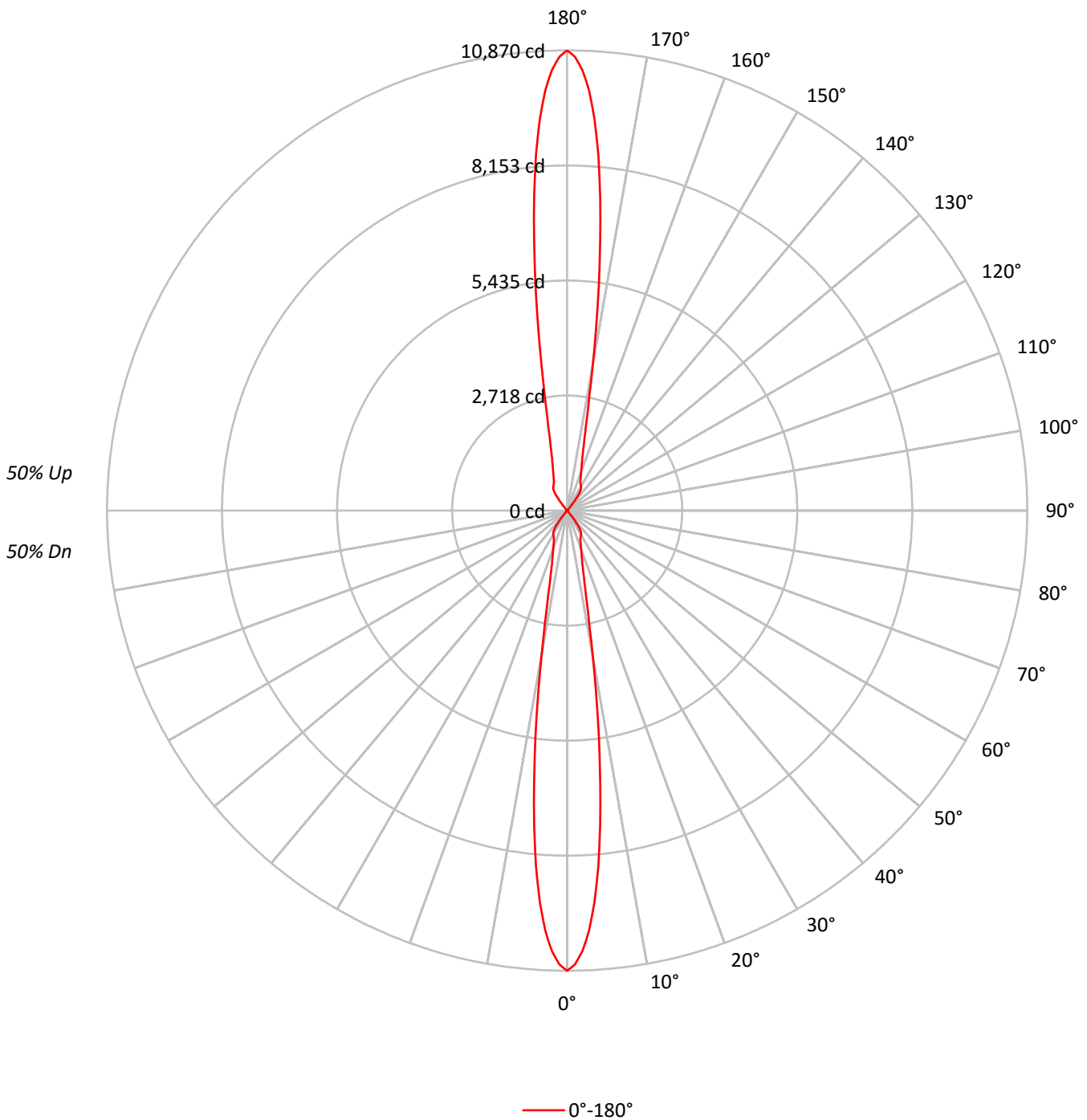
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	95	92	93	90	88	86	77	76	74		65	64	63		54	54	53	48
2	95	89	85	81	88	83	80	76	72	69	67		62	60	58		52	51	50	46
3	89	82	77	73	83	77	72	69	67	64	62		58	56	54		50	49	48	44
4	84	76	70	66	78	72	67	63	63	60	57		55	53	51		48	46	45	42
5	79	71	65	60	74	67	62	58	59	56	53		53	50	48		46	44	43	40
6	75	66	60	56	70	63	58	54	56	52	49		50	47	45		44	43	41	39
7	71	62	56	52	67	59	54	50	53	49	47		48	45	43		43	41	40	37
8	68	59	53	49	64	56	51	47	51	47	44		46	43	41		41	39	38	36
9	65	56	50	46	61	53	48	45	48	45	42		44	41	39		40	38	37	35
10	62	53	47	44	59	51	46	42	46	43	40		42	40	38		39	37	35	34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1340779
5°	1043664
10°	434675
15°	183794
20°	126129
25°	100671
30°	93033
35°	76117
40°	16021
45°	3663
50°	1305
55°	1054
60°	617
65°	350
70°	216
75°	286
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	633.5	18.3
10°-20°	443.9	12.8
20°-30°	349.9	10.1
30°-40°	275.5	8.0
40°-50°	22.3	0.6
50°-60°	4.3	0.1
60°-70°	1.1	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°	1.1	0.0
120°-130°	4.3	0.1
130°-140°	22.3	0.6
140°-150°	275.5	8.0
150°-160°	349.9	10.1
160°-170°	443.9	12.8
170°-180°	633.5	18.3
0°-30°	1427.3	41.2
0°-40°	1702.8	49.2
0°-60°	1729.4	50.0
0°-90°	1731.1	50.0
90°-120°	1.7	0.0
90°-150°	303.7	8.8
90°-180°	1731.0	50.0
0°-180°	3462.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10870	
5°	8429	633
15°	1439	444
25°	740	350
35°	506	275
45°	21	22
55°	5	4
65°	1	1
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	1	1
125°	5	4
135°	21	22
145°	506	275
155°	740	350
165°	1439	444
175°	8429	633
180°	10870	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	10870.1
1°	10720.6
2°	10409.7
3°	9927.7
4°	9268.3
5°	8429.1
6°	7460.2
7°	6413.3
8°	5386.2
9°	4352.4
10°	3470.5
11°	2766.7
12°	2256.2
13°	1894.7
14°	1632.7
15°	1439.3
16°	1294.0
17°	1187.7
18°	1106.8
19°	1029.5
20°	960.9
21°	904.1
22°	853.4
23°	808.9
24°	770.0
25°	739.7
26°	716.8
27°	699.5
28°	682.9
29°	668.0
30°	653.2
32.5°	616.1
35°	505.5
37.5°	301.6
40°	99.5
42.5°	29.7
45°	21.0
47.5°	14.8
50°	6.8
52.5°	6.2
55°	4.9
57.5°	3.7
60°	2.5
62.5°	1.2
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°	1.2
120°	2.5
122.5°	3.7
125°	4.9
127.5°	6.2
130°	6.8
132.5°	14.8
135°	21.0
137.5°	29.7
140°	99.5
142.5°	301.6
145°	505.5
147.5°	616.1
150°	653.2
151°	668.0
152°	682.9
153°	699.5
154°	716.8
155°	739.7
156°	770.0
157°	808.9
158°	853.4
159°	904.1
160°	960.9
161°	1029.5



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CANDELA DISTRIBUTION (continued):

	0°
162°	1106.8
163°	1187.7
164°	1294.0
165°	1439.3
166°	1632.7
167°	1894.7
168°	2256.2
169°	2766.7
170°	3470.5
171°	4352.4
172°	5386.2
173°	6413.3
174°	7460.2
175°	8429.1
176°	9268.3
177°	9927.7
178°	10409.7
179°	10720.6
180°	10870.1

(END OF REPORT)