

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: P221856

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221856
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29487)
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-S-WT-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED 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: 1768.0 lumens
Efficiency: N/A
Efficacy: 89.7 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

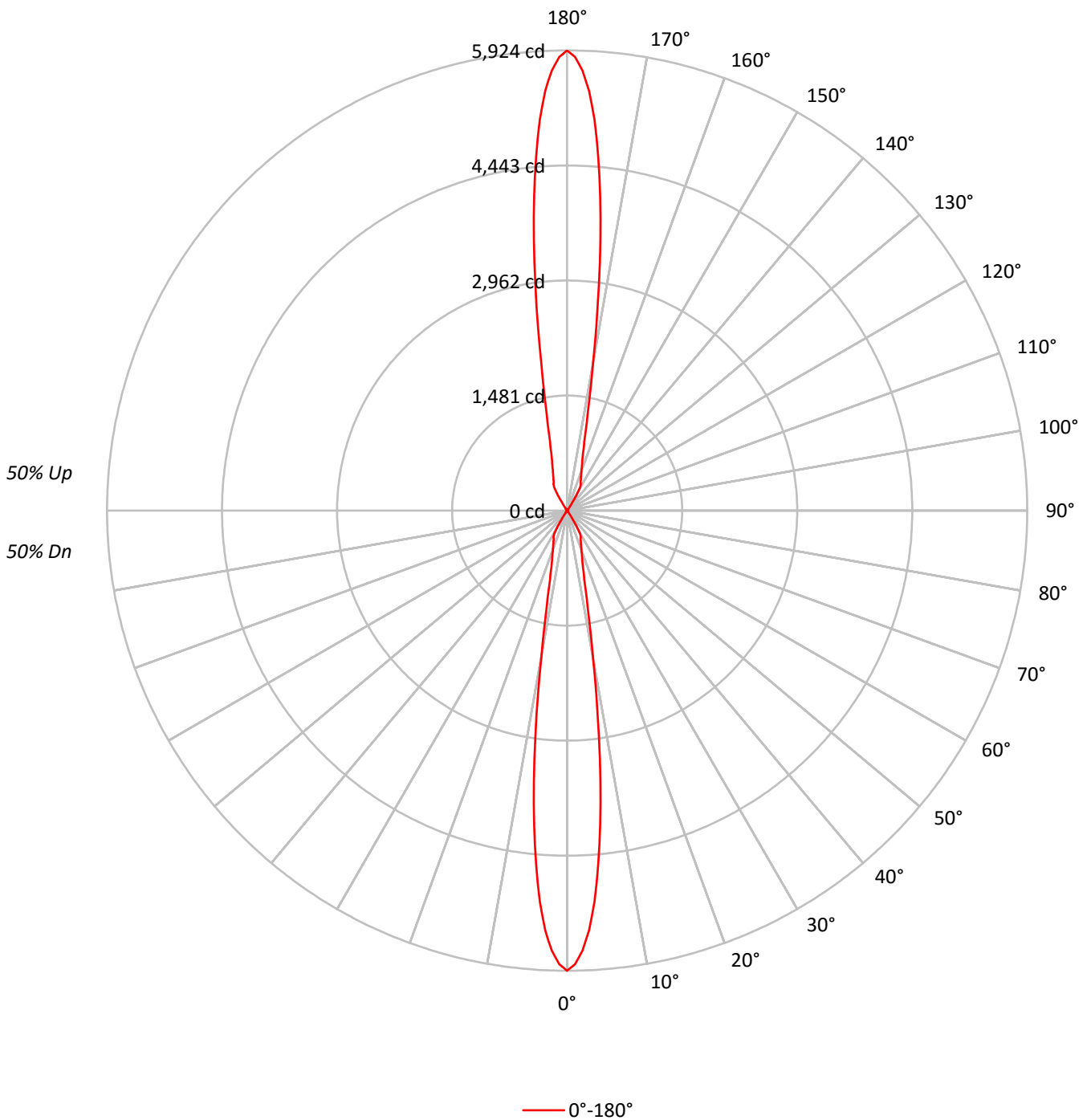
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P221856

CATALOG NUMBER: 9004-W2-[RW, RI]-LED3597-S-WT-L1-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P221856

CATALOG NUMBER: 9004-W2-[RW, RI]-LED3597-S-WT-L1-UNV

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	92	93	90	88	86	77	75	74	65	64	63	54	53	53	48
2	94	89	85	81	87	83	79	76	72	69	67	61	60	58	52	51	50	46
3	89	82	77	72	83	77	72	69	67	64	61	58	56	54	50	48	47	44
4	84	76	70	66	78	72	67	63	63	60	57	55	53	51	48	46	45	42
5	79	71	65	61	74	67	62	58	60	56	53	53	50	48	46	45	43	41
6	75	67	61	56	71	63	58	54	57	53	50	50	48	46	45	43	42	39
7	72	63	57	53	67	60	54	51	54	50	47	48	46	44	43	42	40	38
8	68	59	54	50	65	57	52	48	51	48	45	47	44	42	42	40	39	37
9	66	56	51	47	62	54	49	46	49	46	43	45	42	40	41	39	38	36
10	63	54	48	45	59	52	47	43	47	44	41	43	41	39	40	38	36	35

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	730699
5°	567811
10°	240615
15°	102873
20°	70251
25°	55977
30°	41859
35°	5541
40°	2963
45°	2163
50°	2303
55°	2516
60°	2812
65°	3210
70°	3751
75°	4480
80°	5256
85°	5236



TEST NUMBER: P221856

CATALOG NUMBER: 9004-W2-[RW, RI]-LED3597-S-WT-L1-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.1	19.6
10°-20°	248.0	14.0
20°-30°	191.4	10.8
30°-40°	53.0	3.0
40°-50°	10.3	0.6
50°-60°	10.5	0.6
60°-70°	10.9	0.6
70°-80°	9.8	0.6
80°-90°	4.1	0.2
90°-100°	4.1	0.2
100°-110°	9.8	0.6
110°-120°	10.9	0.6
120°-130°	10.5	0.6
130°-140°	10.3	0.6
140°-150°	53.0	3.0
150°-160°	191.4	10.8
160°-170°	248.0	14.0
170°-180°	346.1	19.6
0°-30°	785.4	44.4
0°-40°	838.4	47.4
0°-60°	859.2	48.6
0°-90°	884.0	50.0
90°-120°	24.8	1.4
90°-150°	98.6	5.6
90°-180°	884.0	50.0
0°-180°	1768.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5924	
5°	4586	346
15°	806	248
25°	411	191
35°	37	53
45°	12	10
55°	12	10
65°	11	11
75°	9	10
85°	4	4
90°	0	0
95°	4	4
105°	9	10
115°	11	11
125°	12	10
135°	12	10
145°	37	53
155°	411	191
165°	806	248
175°	4586	346
180°	5924	



TEST NUMBER: P221856

CATALOG NUMBER: 9004-W2-[RW, RI]-LED3597-S-WT-L1-UNV

CANDELA DISTRIBUTION (FULL):

	0°
0°	5924.0
1°	5841.0
2°	5669.0
3°	5407.6
4°	5044.1
5°	4585.9
6°	4068.5
7°	3522.3
8°	2930.9
9°	2394.7
10°	1921.1
11°	1547.9
12°	1264.8
13°	1060.0
14°	915.0
15°	805.6
16°	724.3
17°	663.4
18°	615.5
19°	573.7
20°	535.2
22.5°	463.5
25°	411.3
26°	397.9
27°	386.6
28°	372.8
29°	343.1
30°	293.9
32.5°	141.2
35°	36.8
37.5°	23.8
40°	18.4
42.5°	13.7
45°	12.4
47.5°	12.0
50°	12.0
52.5°	11.7
55°	11.7
57.5°	11.7
60°	11.4
62.5°	11.4
65°	11.0
67.5°	10.7
70°	10.4
72.5°	10.0



TEST NUMBER: P221856

CATALOG NUMBER: 9004-W2-[RW, RI]-LED3597-S-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

	0°
75°	9.4
77.5°	8.7
80°	7.4
82.5°	6.0
85°	3.7
87.5°	1.7
90°	0.0
92.5°	1.7
95°	3.7
97.5°	6.0
100°	7.4
102.5°	8.7
105°	9.4
107.5°	10.0
110°	10.4
112.5°	10.7
115°	11.0
117.5°	11.4
120°	11.4
122.5°	11.7
125°	11.7
127.5°	11.7
130°	12.0
132.5°	12.0
135°	12.4
137.5°	13.7
140°	18.4
142.5°	23.8
145°	36.8
147.5°	141.2
150°	293.9
151°	343.1
152°	372.8
153°	386.6
154°	397.9
155°	411.3
157.5°	463.5
160°	535.2
161°	573.7
162°	615.5
163°	663.4
164°	724.3
165°	805.6
166°	915.0
167°	1060.0



TEST NUMBER: P221856

CATALOG NUMBER: 9004-W2-[RW, RI]-LED3597-S-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

	0°
168°	1264.8
169°	1547.9
170°	1921.1
171°	2394.7
172°	2930.9
173°	3522.3
174°	4068.5
175°	4585.9
176°	5044.1
177°	5407.6
178°	5669.0
179°	5841.0
180°	5924.0

(END OF REPORT)