

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: P221846

Luminaire Tested: **9004-W2-[RW, RI]-LED3597-F-WT-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221846
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29489)
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-F-WT-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 3500K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4321.5 lumens
Efficiency: N/A
Efficacy: 75.8 lumens/watt
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.57
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

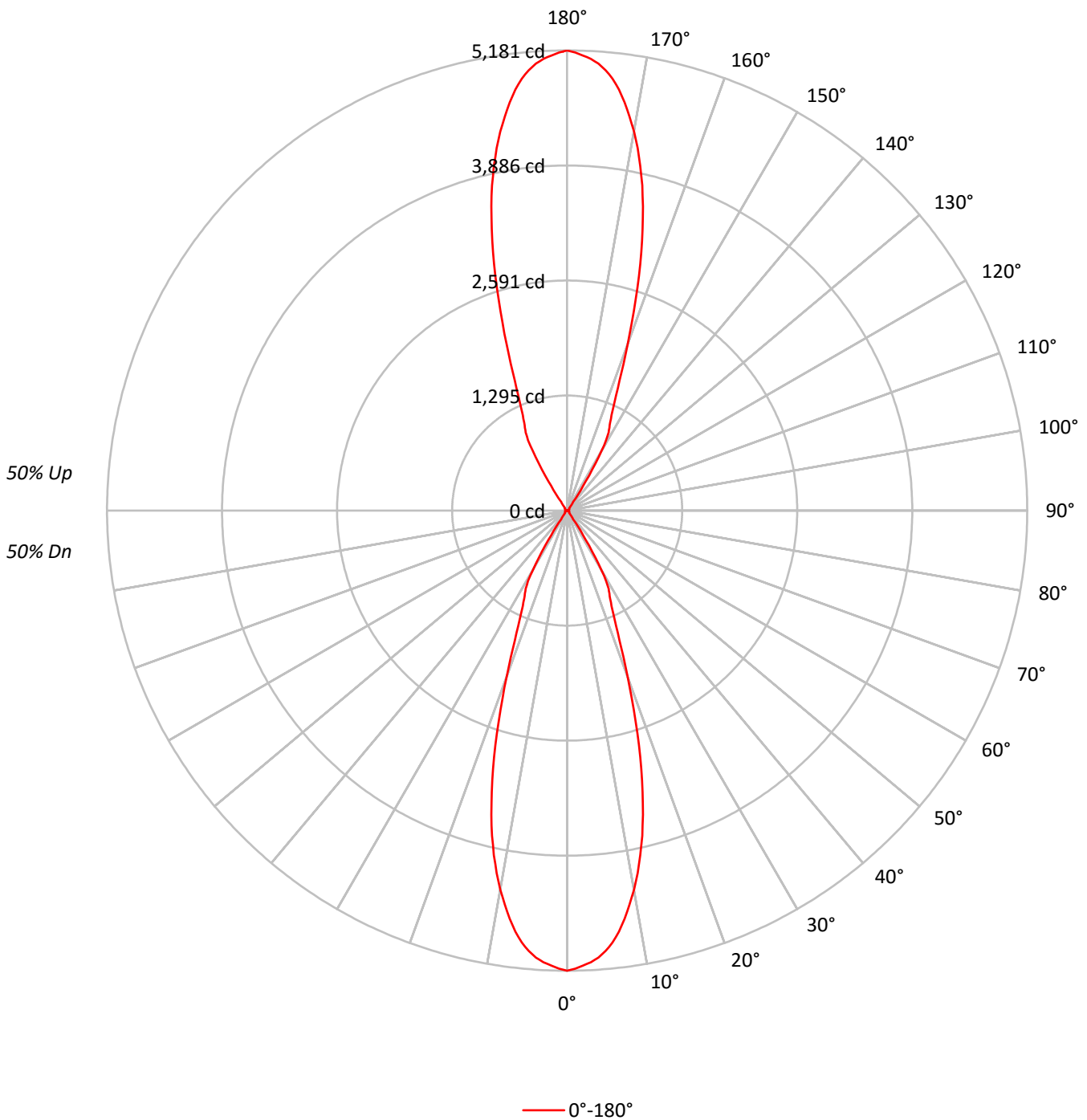
Input Watts (W): 57
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P221846

CATALOG NUMBER: 9004-W2-[RW, RI]-LED3597-F-WT-L3-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P221846

CATALOG NUMBER: 9004-W2-[RW, RI]-LED3597-F-WT-L3-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	91	93	90	87	85	77	75	74	65	64	63	53	53	52	47
2	94	88	84	80	87	82	78	75	71	68	66	61	59	57	51	50	49	45
3	88	81	76	71	82	76	71	67	66	63	60	57	55	53	49	47	46	42
4	83	75	69	64	77	70	65	61	62	58	55	54	51	49	47	45	44	40
5	78	69	63	59	73	65	60	56	58	54	51	51	48	46	45	43	41	39
6	74	65	58	54	69	61	56	52	55	51	48	49	46	43	43	41	39	37
7	70	60	54	50	66	57	52	48	52	48	45	46	43	41	41	39	38	35
8	66	57	51	47	62	54	49	45	49	45	42	44	41	39	39	37	36	34
9	63	54	48	44	60	51	46	42	46	42	40	42	39	37	38	36	34	33
10	60	51	45	41	57	48	43	40	44	40	38	40	37	35	37	34	33	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	639029
5°	616187
10°	542589
15°	418960
20°	261565
25°	161043
30°	110381
35°	17362
40°	7858
45°	5303
50°	5526
55°	6021
60°	6710
65°	7472
70°	8655
75°	10675
80°	12502
85°	12454



TEST NUMBER: P221846

CATALOG NUMBER: 9004-W2-[RW, RI]-LED3597-F-WT-L3-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	454.3	10.5
10°-20°	881.0	20.4
20°-30°	570.5	13.2
30°-40°	146.8	3.4
40°-50°	25.0	0.6
50°-60°	25.3	0.6
60°-70°	25.4	0.6
70°-80°	22.8	0.5
80°-90°	9.6	0.2
90°-100°	9.6	0.2
100°-110°	22.8	0.5
110°-120°	25.4	0.6
120°-130°	25.3	0.6
130°-140°	25.0	0.6
140°-150°	146.8	3.4
150°-160°	570.5	13.2
160°-170°	881.0	20.4
170°-180°	454.3	10.5
0°-30°	1905.9	44.1
0°-40°	2052.6	47.5
0°-60°	2103.0	48.7
0°-90°	2160.7	50.0
90°-120°	57.8	1.3
90°-150°	254.9	5.9
90°-180°	2161.0	50.0
0°-180°	4321.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5181	
5°	4977	454
15°	3281	881
25°	1183	571
35°	115	147
45°	30	25
55°	28	25
65°	26	25
75°	22	23
85°	9	9
90°	0	1
95°	9	9
105°	22	23
115°	26	25
125°	28	25
135°	30	25
145°	115	147
155°	1183	571
165°	3281	881
175°	4977	454
180°	5181	



TEST NUMBER: P221846

CATALOG NUMBER: 9004-W2-[RW, RI]-LED3597-F-WT-L3-UNV

CANDELA DISTRIBUTION (FULL):

0°	
0°	5180.8
1°	5157.6
2°	5127.1
3°	5091.1
4°	5044.7
5°	4976.6
6°	4890.2
7°	4777.3
8°	4642.0
9°	4491.5
10°	4332.1
11°	4157.6
12°	3965.5
13°	3757.3
14°	3529.1
15°	3280.9
16°	3024.7
17°	2761.3
18°	2497.1
19°	2236.9
20°	1992.7
21°	1769.4
22°	1574.8
23°	1410.7
24°	1281.8
25°	1183.3
26°	1105.7
27°	1045.6
28°	995.2
29°	907.1
30°	775.0
32.5°	387.5
35°	115.3
37.5°	73.7
40°	48.8
42.5°	31.2
45°	30.4
47.5°	29.6
50°	28.8
52.5°	28.8
55°	28.0
57.5°	28.0
60°	27.2
62.5°	26.4
65°	25.6



TEST NUMBER: P221846

CATALOG NUMBER: 9004-W2-[RW, RI]-LED3597-F-WT-L3-UNV

CANDELA DISTRIBUTION (continued):

	0°
67.5°	24.8
70°	24.0
72.5°	23.2
75°	22.4
77.5°	20.0
80°	17.6
82.5°	13.6
85°	8.8
87.5°	4.0
90°	0.0
92.5°	4.0
95°	8.8
97.5°	13.6
100°	17.6
102.5°	20.0
105°	22.4
107.5°	23.2
110°	24.0
112.5°	24.8
115°	25.6
117.5°	26.4
120°	27.2
122.5°	28.0
125°	28.0
127.5°	28.8
130°	28.8
132.5°	29.6
135°	30.4
137.5°	31.2
140°	48.8
142.5°	73.7
145°	115.3
147.5°	387.5
150°	775.0
151°	907.1
152°	995.2
153°	1045.6
154°	1105.7
155°	1183.3
156°	1281.8
157°	1410.7
158°	1574.8
159°	1769.4
160°	1992.7
161°	2236.9



TEST NUMBER: P221846

CATALOG NUMBER: 9004-W2-[RW, RI]-LED3597-F-WT-L3-UNV

CANDELA DISTRIBUTION (continued):

	0°
162°	2497.1
163°	2761.3
164°	3024.7
165°	3280.9
166°	3529.1
167°	3757.3
168°	3965.5
169°	4157.6
170°	4332.1
171°	4491.5
172°	4642.0
173°	4777.3
174°	4890.2
175°	4976.6
176°	5044.7
177°	5091.1
178°	5127.1
179°	5157.6
180°	5180.8

(END OF REPORT)