

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: P221797

Luminaire Tested: **9004-W2-[RW, RI]-LED3097-F-WT-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221797
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]-LED3097-F-WT-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 3000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2940.9 lumens
Efficiency: N/A
Efficacy: 73.2 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

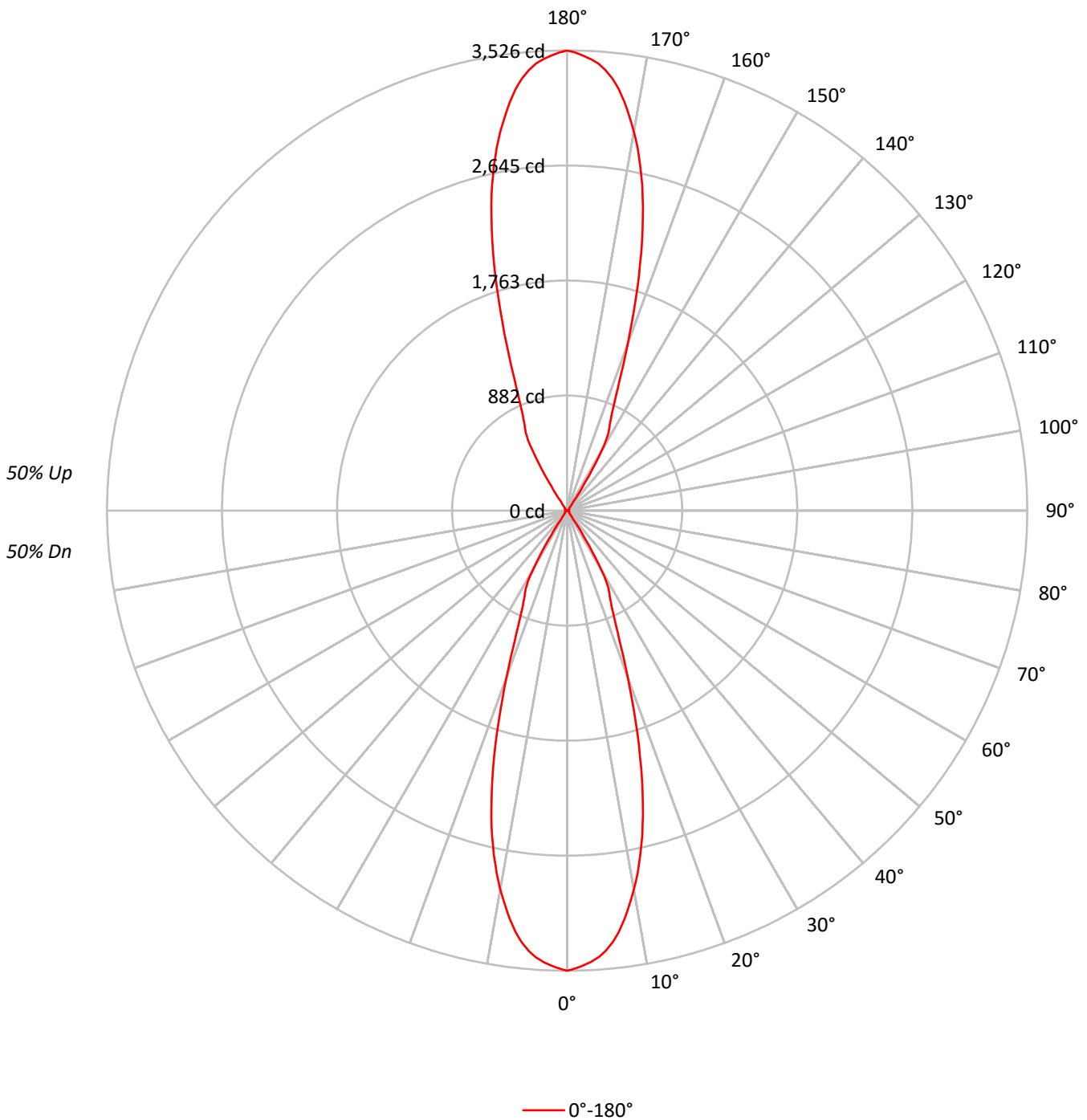
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P221797

CATALOG NUMBER: 9004-W2-[RW, RI]-LED3097-F-WT-L2-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P221797

CATALOG NUMBER: 9004-W2-[RW, RI]-LED3097-F-WT-L2-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°	434855
5°	419318
10°	369232
15°	285109
20°	178004
25°	109585
30°	75116
35°	11820
40°	5346
45°	3611
50°	3761
55°	4107
60°	4564
65°	5078
70°	5878
75°	7292
80°	8524
85°	8491



TEST NUMBER: P221797

CATALOG NUMBER: 9004-W2-[RW, RI]-LED3097-F-WT-L2-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.2	10.5
10°-20°	599.5	20.4
20°-30°	388.2	13.2
30°-40°	99.9	3.4
40°-50°	17.0	0.6
50°-60°	17.2	0.6
60°-70°	17.3	0.6
70°-80°	15.5	0.5
80°-90°	6.5	0.2
90°-100°	6.5	0.2
100°-110°	15.5	0.5
110°-120°	17.3	0.6
120°-130°	17.2	0.6
130°-140°	17.0	0.6
140°-150°	99.9	3.4
150°-160°	388.2	13.2
160°-170°	599.5	20.4
170°-180°	309.2	10.5
0°-30°	1296.9	44.1
0°-40°	1396.8	47.5
0°-60°	1431.1	48.7
0°-90°	1470.4	50.0
90°-120°	39.4	1.3
90°-150°	173.5	5.9
90°-180°	1470.0	50.0
0°-180°	2940.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3526	
5°	3387	309
15°	2233	600
25°	805	388
35°	78	100
45°	21	17
55°	19	17
65°	17	17
75°	15	16
85°	6	6
90°	0	1
95°	6	6
105°	15	16
115°	17	17
125°	19	17
135°	21	17
145°	78	100
155°	805	388
165°	2233	600
175°	3387	309
180°	3526	



TEST NUMBER: P221797

CATALOG NUMBER: 9004-W2-[RW, RI]-LED3097-F-WT-L2-UNV

CANDELA DISTRIBUTION (FULL):

0°	
0°	3525.5
1°	3509.7
2°	3489.0
3°	3464.5
4°	3432.9
5°	3386.6
6°	3327.7
7°	3250.9
8°	3158.9
9°	3056.4
10°	2948.0
11°	2829.2
12°	2698.5
13°	2556.8
14°	2401.6
15°	2232.7
16°	2058.3
17°	1879.1
18°	1699.3
19°	1522.2
20°	1356.1
21°	1204.0
22°	1071.7
23°	960.0
24°	872.3
25°	805.2
26°	752.4
27°	711.5
28°	677.2
29°	617.3
30°	527.4
32.5°	263.7
35°	78.5
37.5°	50.1
40°	33.2
42.5°	21.2
45°	20.7
47.5°	20.2
50°	19.6
52.5°	19.6
55°	19.1
57.5°	19.1
60°	18.5
62.5°	18.0
65°	17.4



TEST NUMBER: P221797

CATALOG NUMBER: 9004-W2-[RW, RI]-LED3097-F-WT-L2-UNV

CANDELA DISTRIBUTION (continued):

	0°
67.5°	16.9
70°	16.3
72.5°	15.8
75°	15.3
77.5°	13.6
80°	12.0
82.5°	9.3
85°	6.0
87.5°	2.7
90°	0.0
92.5°	2.7
95°	6.0
97.5°	9.3
100°	12.0
102.5°	13.6
105°	15.3
107.5°	15.8
110°	16.3
112.5°	16.9
115°	17.4
117.5°	18.0
120°	18.5
122.5°	19.1
125°	19.1
127.5°	19.6
130°	19.6
132.5°	20.2
135°	20.7
137.5°	21.2
140°	33.2
142.5°	50.1
145°	78.5
147.5°	263.7
150°	527.4
151°	617.3
152°	677.2
153°	711.5
154°	752.4
155°	805.2
156°	872.3
157°	960.0
158°	1071.7
159°	1204.0
160°	1356.1
161°	1522.2



TEST NUMBER: P221797

CATALOG NUMBER: 9004-W2-[RW, RI]-LED3097-F-WT-L2-UNV

CANDELA DISTRIBUTION (continued):

	0°
162°	1699.3
163°	1879.1
164°	2058.3
165°	2232.7
166°	2401.6
167°	2556.8
168°	2698.5
169°	2829.2
170°	2948.0
171°	3056.4
172°	3158.9
173°	3250.9
174°	3327.7
175°	3386.6
176°	3432.9
177°	3464.5
178°	3489.0
179°	3509.7
180°	3525.5

(END OF REPORT)