

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: P221816

Luminaire Tested: **9004-W2-[RW, RI]-LED3097-W-WT-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221816
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29490)
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-W-WT-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, WIDE FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 3000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3667.2 lumens
Efficiency: N/A
Efficacy: 64.3 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.84 / 0.83
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

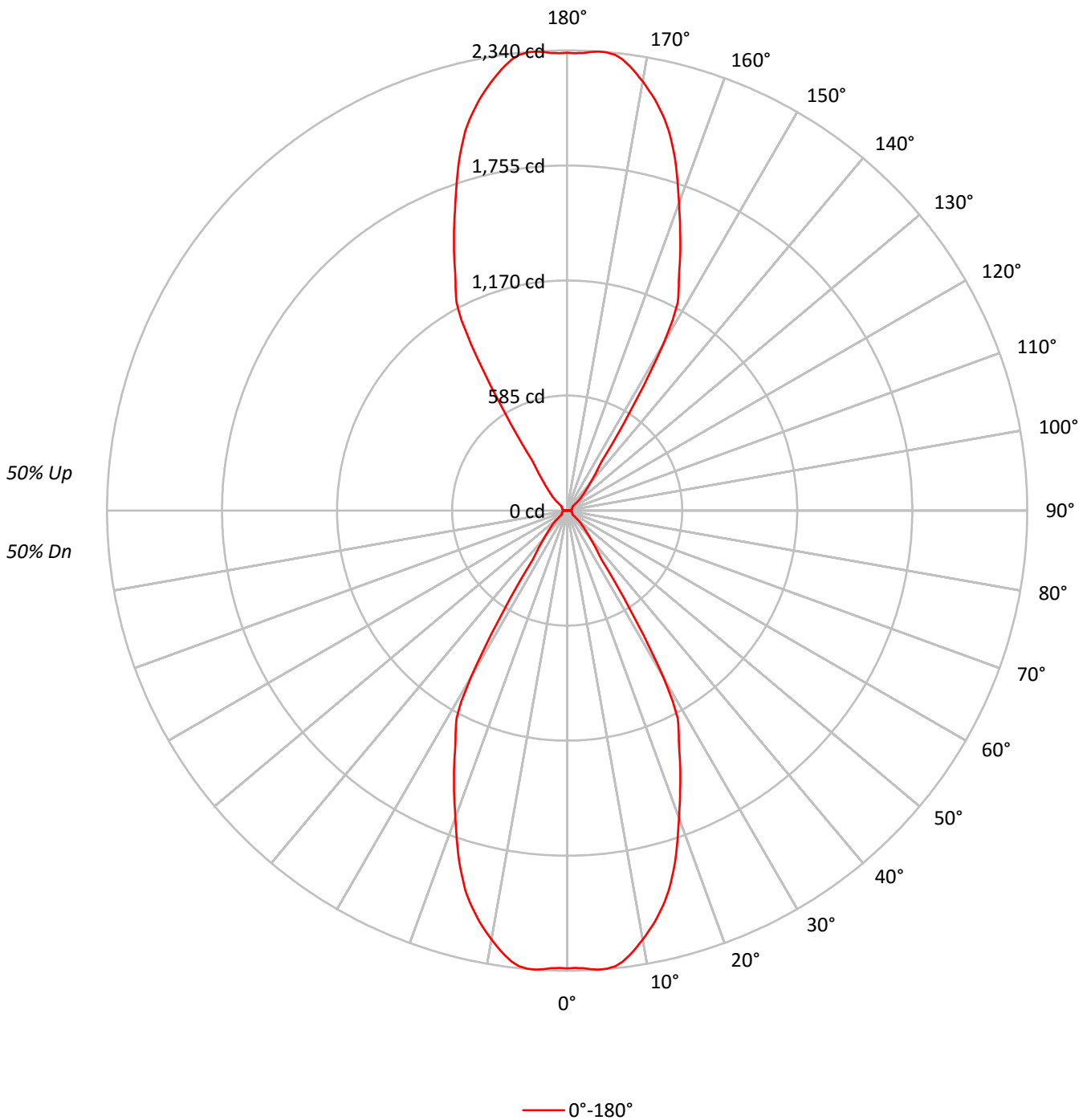
Input Watts (W): 57
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P221816

CATALOG NUMBER: 9004-W2-[RW, RI]-LED3097-W-WT-L3-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P221816

CATALOG NUMBER: 9004-W2-[RW, RI]-LED3097-W-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	96	93	90	92	89	87	84	76	74	73	64	63	62	53	52	51	46
2	93	87	82	78	86	81	77	73	70	67	64	59	57	56	50	48	47	43
3	87	79	73	69	80	74	69	65	64	61	58	55	53	51	47	45	44	40
4	81	72	66	61	75	68	62	58	59	55	52	51	49	46	44	42	41	37
5	76	67	60	55	71	63	57	53	55	51	48	48	45	43	42	40	38	35
6	71	61	55	50	66	58	52	48	51	47	44	45	42	39	39	37	35	33
7	67	57	50	46	63	54	48	44	48	43	40	42	39	37	37	35	33	31
8	63	53	46	42	59	50	44	40	45	40	37	40	37	34	35	33	31	29
9	60	49	43	39	56	47	41	37	42	38	35	38	34	32	34	31	29	28
10	56	46	40	36	53	44	38	35	40	35	32	36	32	30	32	30	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	287223
5°	289533
10°	277413
15°	255253
20°	218196
25°	183676
30°	138838
35°	46122
40°	29321
45°	19938
50°	11648
55°	6989
60°	7672
65°	8435
70°	9665
75°	11771
80°	14064
85°	14011



TEST NUMBER: P221816

CATALOG NUMBER: 9004-W2-[RW, RI]-LED3097-W-WT-L3-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.2	6.0
10°-20°	551.3	15.0
20°-30°	617.5	16.8
30°-40°	258.2	7.0
40°-50°	89.7	2.4
50°-60°	32.6	0.9
60°-70°	28.7	0.8
70°-80°	25.5	0.7
80°-90°	10.7	0.3
90°-100°	10.7	0.3
100°-110°	25.5	0.7
110°-120°	28.7	0.8
120°-130°	32.6	0.9
130°-140°	89.7	2.4
140°-150°	258.2	7.0
150°-160°	617.5	16.8
160°-170°	551.3	15.0
170°-180°	219.2	6.0
0°-30°	1388.1	37.9
0°-40°	1646.3	44.9
0°-60°	1768.6	48.2
0°-90°	1833.6	50.0
90°-120°	65.0	1.8
90°-150°	445.5	12.1
90°-180°	1834.0	50.0
0°-180°	3667.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2329	
5°	2338	219
15°	1999	551
25°	1350	618
35°	306	258
45°	114	90
55°	32	33
65°	29	29
75°	25	26
85°	10	10
90°	0	1
95°	10	10
105°	25	26
115°	29	29
125°	32	33
135°	114	90
145°	306	258
155°	1350	618
165°	1999	551
175°	2338	219
180°	2329	



TEST NUMBER: P221816

CATALOG NUMBER: 9004-W2-[RW, RI]-LED3097-W-WT-L3-UNV

CANDELA DISTRIBUTION (FULL):

0°	
0°	2328.6
1°	2326.4
2°	2328.6
3°	2335.6
4°	2339.9
5°	2338.4
6°	2330.0
7°	2311.6
8°	2282.7
9°	2250.2
10°	2214.9
11°	2177.5
12°	2139.4
13°	2096.3
14°	2050.5
15°	1998.9
16°	1937.5
17°	1873.3
18°	1804.1
19°	1732.1
20°	1662.3
21°	1597.3
22°	1534.5
23°	1472.4
24°	1411.7
25°	1349.6
26°	1295.2
27°	1247.2
28°	1197.8
29°	1107.5
30°	974.8
32.5°	584.4
35°	306.3
37.5°	234.3
40°	182.1
42.5°	141.9
45°	114.3
47.5°	91.8
50°	60.7
52.5°	36.0
55°	32.5
57.5°	31.8
60°	31.1
62.5°	30.4
65°	28.9



TEST NUMBER: P221816

CATALOG NUMBER: 9004-W2-[RW, RI]-LED3097-W-WT-L3-UNV

CANDELA DISTRIBUTION (continued):

	0°
67.5°	27.5
70°	26.8
72.5°	26.1
75°	24.7
77.5°	22.6
80°	19.8
82.5°	15.5
85°	9.9
87.5°	4.2
90°	0.0
92.5°	4.2
95°	9.9
97.5°	15.5
100°	19.8
102.5°	22.6
105°	24.7
107.5°	26.1
110°	26.8
112.5°	27.5
115°	28.9
117.5°	30.4
120°	31.1
122.5°	31.8
125°	32.5
127.5°	36.0
130°	60.7
132.5°	91.8
135°	114.3
137.5°	141.9
140°	182.1
142.5°	234.3
145°	306.3
147.5°	584.4
150°	974.8
151°	1107.5
152°	1197.8
153°	1247.2
154°	1295.2
155°	1349.6
156°	1411.7
157°	1472.4
158°	1534.5
159°	1597.3
160°	1662.3
161°	1732.1



TEST NUMBER: P221816

CATALOG NUMBER: 9004-W2-[RW, RI]-LED3097-W-WT-L3-UNV

CANDELA DISTRIBUTION (continued):

	0°
162°	1804.1
163°	1873.3
164°	1937.5
165°	1998.9
166°	2050.5
167°	2096.3
168°	2139.4
169°	2177.5
170°	2214.9
171°	2250.2
172°	2282.7
173°	2311.6
174°	2330.0
175°	2338.4
176°	2339.9
177°	2335.6
178°	2328.6
179°	2326.4
180°	2328.6

(END OF REPORT)