

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: P221747

Luminaire Tested: **9004-W2-[RW, RI]-LED2797-F-BK-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221747
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29493)
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]-LED2797-F-BK-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 2700K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3512.4 lumens
Efficiency: N/A
Efficacy: 61.4 lumens/watt
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.56
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

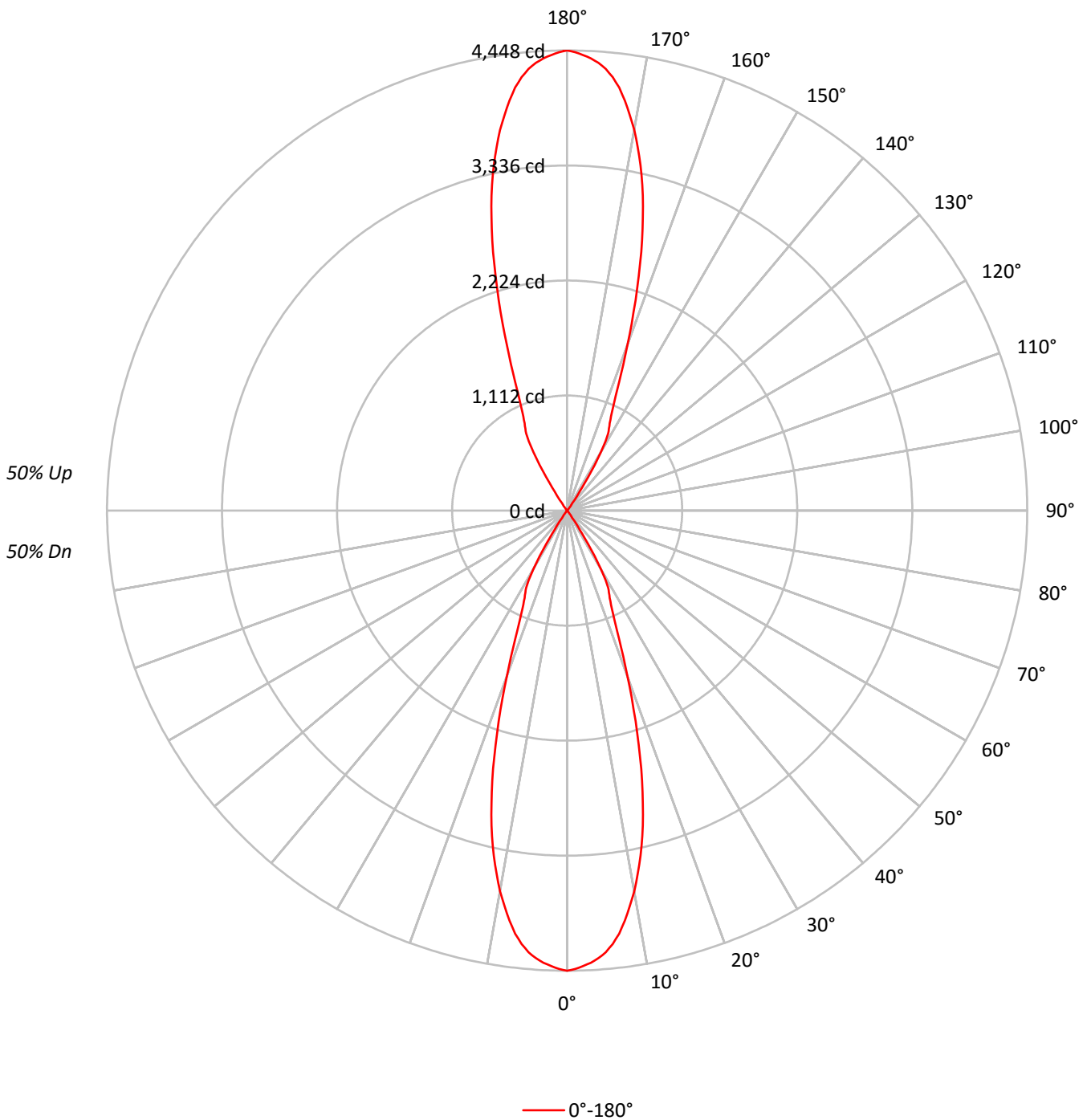
Input Watts (W): 57.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P221747

CATALOG NUMBER: 9004-W2-[RW, RI]-LED2797-F-BK-L3-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P221747

CATALOG NUMBER: 9004-W2-[RW, RI]-LED2797-F-BK-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	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	53	53	48				
2	95	89	85	81	88	83	79	76	72	69	67	61	60	58	52	51	50	46				
3	89	82	77	73	83	77	72	69	67	64	61	58	56	54	50	49	47	44				
4	84	76	70	66	78	71	66	63	63	59	57	55	53	51	48	46	45	42				
5	79	71	65	60	74	67	61	58	59	55	53	52	50	48	46	44	43	40				
6	75	66	60	55	70	62	57	53	56	52	49	50	47	45	44	42	41	38				
7	71	62	56	52	67	59	53	50	53	49	46	48	45	43	42	41	39	37				
8	68	58	52	48	64	55	50	47	50	46	44	45	43	40	41	39	37	35				
9	64	55	49	45	61	52	47	44	48	44	41	43	41	39	39	37	36	34				
10	61	52	46	43	58	50	45	41	46	42	39	42	39	37	38	36	35	33				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	548629
5°	530468
10°	467765
15°	360118
20°	223407
25°	136655
30°	93019
35°	12317
40°	3494
45°	855
50°	672
55°	452
60°	345
65°	409
70°	252
75°	0
80°	0
85°	0



TEST NUMBER: P221747

CATALOG NUMBER: 9004-W2-[RW, RI]-LED2797-F-BK-L3-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.4	11.1
10°-20°	756.5	21.5
20°-30°	485.1	13.8
30°-40°	114.3	3.3
40°-50°	5.4	0.2
50°-60°	2.1	0.1
60°-70°	1.1	0.0
70°-80°	0.3	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.5	0.0
110°-120°	1.1	0.0
120°-130°	2.1	0.1
130°-140°	5.4	0.2
140°-150°	114.3	3.3
150°-160°	485.1	13.8
160°-170°	756.5	21.5
170°-180°	391.4	11.1
0°-30°	1632.9	46.5
0°-40°	1747.3	49.7
0°-60°	1754.8	50.0
0°-90°	1756.2	50.0
90°-120°	1.6	0.0
90°-150°	123.4	3.5
90°-180°	1756.0	50.0
0°-180°	3512.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4448	
5°	4284	391
15°	2820	757
25°	1004	485
35°	82	114
45°	5	5
55°	2	2
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	1	1
125°	2	2
135°	5	5
145°	82	114
155°	1004	485
165°	2820	757
175°	4284	391
180°	4448	



TEST NUMBER: P221747

CATALOG NUMBER: 9004-W2-[RW, RI]-LED2797-F-BK-L3-UNV

CANDELA DISTRIBUTION (FULL):

0°	
0°	4447.9
1°	4431.8
2°	4406.0
3°	4376.6
4°	4338.1
5°	4284.3
6°	4212.3
7°	4120.7
8°	4001.8
9°	3872.4
10°	3734.7
11°	3578.7
12°	3411.6
13°	3230.5
14°	3029.8
15°	2820.1
16°	2597.7
17°	2367.6
18°	2138.3
19°	1915.9
20°	1702.0
21°	1511.8
22°	1341.9
23°	1199.2
24°	1090.8
25°	1004.1
26°	939.1
27°	888.7
28°	844.0
29°	767.8
30°	653.1
32.5°	311.9
35°	81.8
37.5°	43.4
40°	21.7
42.5°	7.0
45°	4.9
47.5°	4.2
50°	3.5
52.5°	2.8
55°	2.1
57.5°	2.1
60°	1.4
62.5°	1.4
65°	1.4



TEST NUMBER: P221747

CATALOG NUMBER: 9004-W2-[RW, RI]-LED2797-F-BK-L3-UNV

CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.7
70°	0.7
72.5°	0.7
75°	0.0
77.5°	0.0
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°	0.0
105°	0.0
107.5°	0.7
110°	0.7
112.5°	0.7
115°	1.4
117.5°	1.4
120°	1.4
122.5°	2.1
125°	2.1
127.5°	2.8
130°	3.5
132.5°	4.2
135°	4.9
137.5°	7.0
140°	21.7
142.5°	43.4
145°	81.8
147.5°	311.9
150°	653.1
151°	767.8
152°	844.0
153°	888.7
154°	939.1
155°	1004.1
156°	1090.8
157°	1199.2
158°	1341.9
159°	1511.8
160°	1702.0
161°	1915.9



TEST NUMBER: P221747

CATALOG NUMBER: 9004-W2-[RW, RI]-LED2797-F-BK-L3-UNV

CANDELA DISTRIBUTION (continued):

	0°
162°	2138.3
163°	2367.6
164°	2597.7
165°	2820.1
166°	3029.8
167°	3230.5
168°	3411.6
169°	3578.7
170°	3734.7
171°	3872.4
172°	4001.8
173°	4120.7
174°	4212.3
175°	4284.3
176°	4338.1
177°	4376.6
178°	4406.0
179°	4431.8
180°	4447.9

(END OF REPORT)