

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: P221766

Luminaire Tested: **9004-W2-[RW, RI]-LED2797-W-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221766
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]-LED2797-W-WT-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, WIDE FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 2700K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1518.8 lumens
Efficiency: N/A
Efficacy: 77.1 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

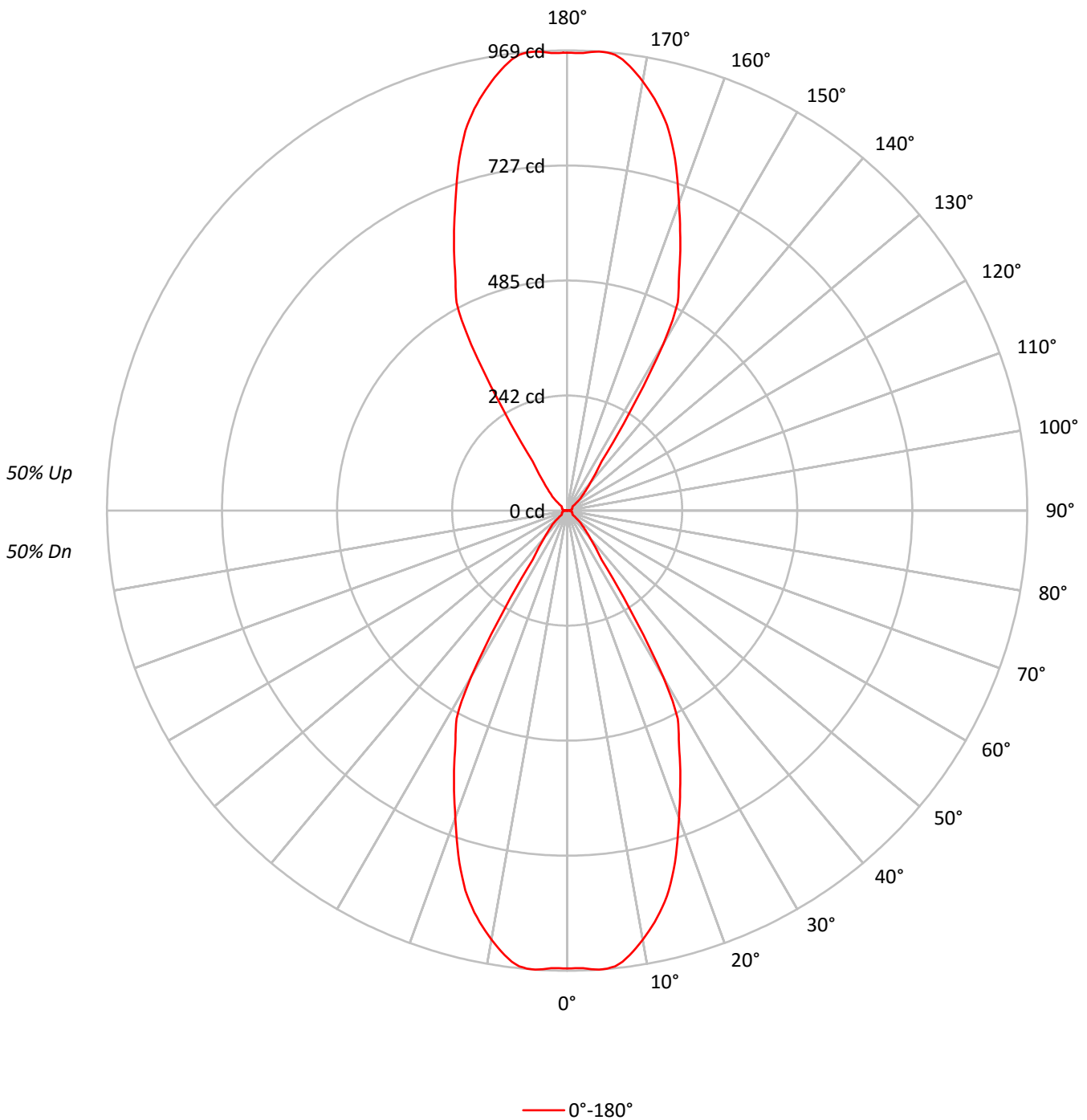
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P221766

CATALOG NUMBER: 9004-W2-[RW, RI]-LED2797-W-WT-L1-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P221766

CATALOG NUMBER: 9004-W2-[RW, RI]-LED2797-W-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	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	52	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°	118942
5°	119904
10°	114890
15°	105707
20°	90361
25°	76065
30°	57498
35°	19108
40°	12141
45°	8268
50°	4816
55°	2882
60°	3182
65°	3502
70°	4003
75°	4861
80°	5825
85°	5802



TEST NUMBER: P221766

CATALOG NUMBER: 9004-W2-[RW, RI]-LED2797-W-WT-L1-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.8	6.0
10°-20°	228.3	15.0
20°-30°	255.7	16.8
30°-40°	106.9	7.0
40°-50°	37.2	2.4
50°-60°	13.5	0.9
60°-70°	11.9	0.8
70°-80°	10.6	0.7
80°-90°	4.5	0.3
90°-100°	4.5	0.3
100°-110°	10.6	0.7
110°-120°	11.9	0.8
120°-130°	13.5	0.9
130°-140°	37.2	2.4
140°-150°	106.9	7.0
150°-160°	255.7	16.8
160°-170°	228.3	15.0
170°-180°	90.8	6.0
0°-30°	574.8	37.8
0°-40°	681.8	44.9
0°-60°	732.4	48.2
0°-90°	759.4	50.0
90°-120°	26.9	1.8
90°-150°	184.5	12.2
90°-180°	759.0	50.0
0°-180°	1518.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	964	
5°	968	91
15°	828	228
25°	559	256
35°	127	107
45°	47	37
55°	13	13
65°	12	12
75°	10	11
85°	4	4
90°	0	0
95°	4	4
105°	10	11
115°	12	12
125°	13	13
135°	47	37
145°	127	107
155°	559	256
165°	828	228
175°	968	91
180°	964	



TEST NUMBER: P221766

CATALOG NUMBER: 9004-W2-[RW, RI]-LED2797-W-WT-L1-UNV

CANDELA DISTRIBUTION (FULL):

0°	
0°	964.3
1°	963.5
2°	964.3
3°	967.3
4°	969.0
5°	968.4
6°	964.9
7°	957.3
8°	945.3
9°	931.9
10°	917.3
11°	901.8
12°	886.0
13°	868.2
14°	849.2
15°	827.8
16°	802.4
17°	775.8
18°	747.2
19°	717.3
20°	688.4
21°	661.5
22°	635.5
23°	609.8
24°	584.6
25°	558.9
26°	536.4
27°	516.5
28°	496.1
29°	458.6
30°	403.7
32.5°	242.0
35°	126.9
37.5°	97.0
40°	75.4
42.5°	58.8
45°	47.4
47.5°	38.0
50°	25.1
52.5°	14.9
55°	13.4
57.5°	13.2
60°	12.9
62.5°	12.6
65°	12.0



TEST NUMBER: P221766

CATALOG NUMBER: 9004-W2-[RW, RI]-LED2797-W-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

	0°
67.5°	11.4
70°	11.1
72.5°	10.8
75°	10.2
77.5°	9.4
80°	8.2
82.5°	6.4
85°	4.1
87.5°	1.8
90°	0.0
92.5°	1.8
95°	4.1
97.5°	6.4
100°	8.2
102.5°	9.4
105°	10.2
107.5°	10.8
110°	11.1
112.5°	11.4
115°	12.0
117.5°	12.6
120°	12.9
122.5°	13.2
125°	13.4
127.5°	14.9
130°	25.1
132.5°	38.0
135°	47.4
137.5°	58.8
140°	75.4
142.5°	97.0
145°	126.9
147.5°	242.0
150°	403.7
151°	458.6
152°	496.1
153°	516.5
154°	536.4
155°	558.9
156°	584.6
157°	609.8
158°	635.5
159°	661.5
160°	688.4
161°	717.3



TEST NUMBER: P221766

CATALOG NUMBER: 9004-W2-[RW, RI]-LED2797-W-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

	0°
162°	747.2
163°	775.8
164°	802.4
165°	827.8
166°	849.2
167°	868.2
168°	886.0
169°	901.8
170°	917.3
171°	931.9
172°	945.3
173°	957.3
174°	964.9
175°	968.4
176°	969.0
177°	967.3
178°	964.3
179°	963.5
180°	964.3

(END OF REPORT)