

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: P221313

Luminaire Tested: **9002-W2-FL-LED2797-S-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221313
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29421)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9002-W2-FL-LED2797-S-BK-L1-UNV
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, FLUSH LENS, SPOT OPTIC,
BLACK HOUSING.
Light Source: (1) 2700K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

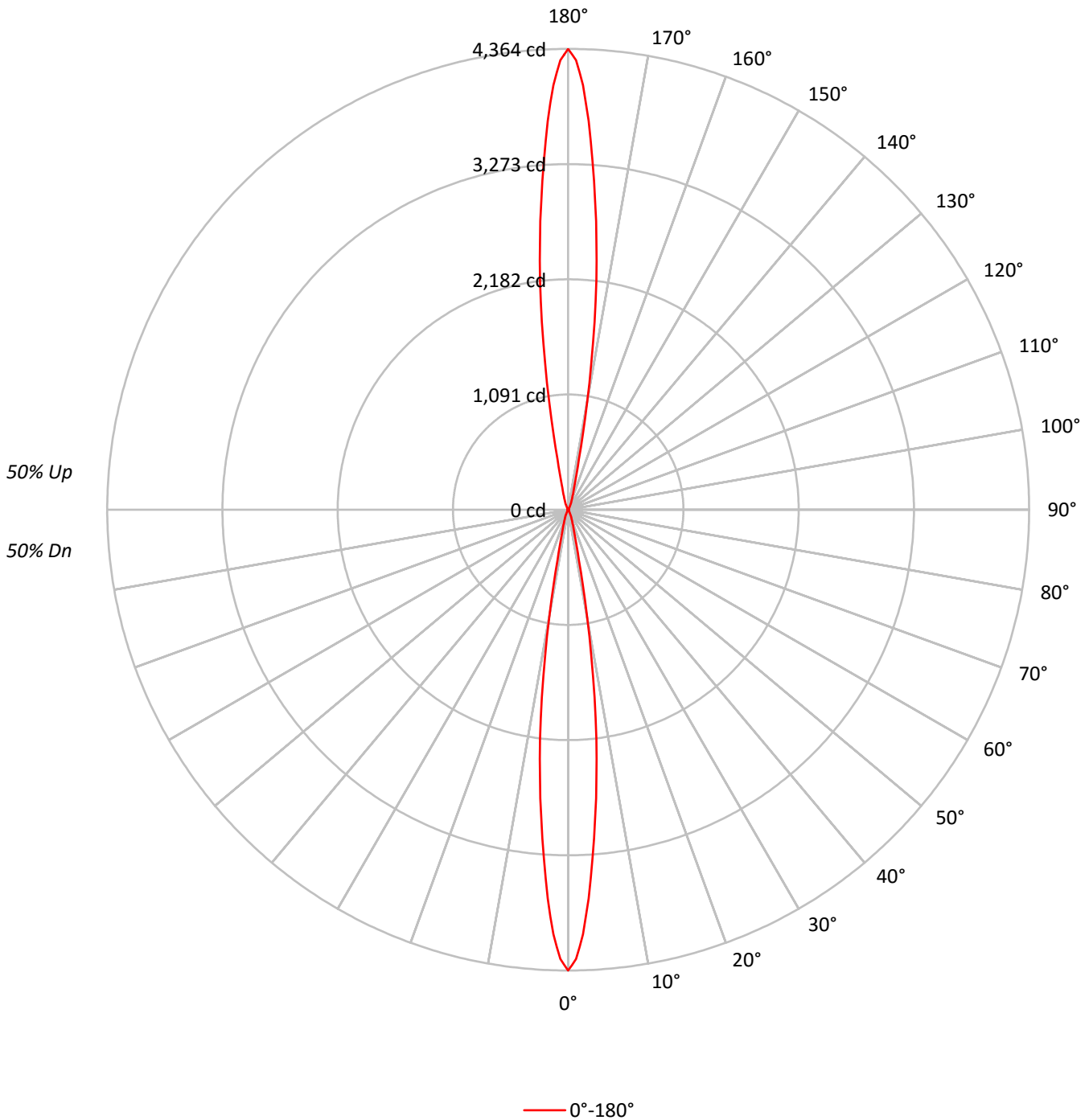
Lumens per Lamp: N/A
Luminaire Lumens: 661.5 lumens
Efficiency: N/A
Efficacy: 33.1 lumens/watt
Spacing Criteria (0/90/45): 0.24 / 0.24 / 0.24
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 20
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: P221313
CATALOG NUMBER: 9002-W2-FL-LED2797-S-BK-L1-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P221313

CATALOG NUMBER: 9002-W2-FL-LED2797-S-BK-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	101	98	96	93	94	91	89	87	78	77	75	66	65	64	55	55	54	49
2	96	91	87	83	89	85	82	79	74	71	70	63	62	61	54	53	52	48
3	91	85	80	76	85	80	76	72	70	67	65	61	59	58	53	52	51	47
4	87	80	74	70	81	75	71	67	67	64	61	59	57	55	52	51	50	47
5	83	75	70	66	78	71	67	63	64	61	58	57	55	53	51	49	49	46
6	79	71	66	62	75	68	63	60	61	58	56	55	53	52	50	49	48	45
7	76	68	63	59	72	65	61	57	59	56	54	54	52	50	49	48	47	45
8	73	65	60	57	70	63	58	55	57	54	52	53	50	49	48	47	46	44
9	71	63	58	55	67	60	56	53	56	53	50	52	49	48	47	46	45	44
10	69	61	56	53	65	58	54	51	54	51	49	50	48	47	47	45	44	43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2152960
5°	1452461
10°	516972
15°	107622
20°	51927
25°	25151
30°	8660
35°	4337
40°	3285
45°	2023
50°	1689
55°	1204
60°	1381
65°	817
70°	1010
75°	0
80°	0
85°	0



TEST NUMBER: P221313

CATALOG NUMBER: 9002-W2-FL-LED2797-S-BK-L1-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.5	33.2
10°-20°	78.7	11.9
20°-30°	22.1	3.3
30°-40°	5.1	0.8
40°-50°	2.6	0.4
50°-60°	1.5	0.2
60°-70°	0.9	0.1
70°-80°	0.3	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.5	0.1
110°-120°	0.9	0.1
120°-130°	1.5	0.2
130°-140°	2.6	0.4
140°-150°	5.1	0.8
150°-160°	22.1	3.3
160°-170°	78.7	11.9
170°-180°	219.5	33.2
0°-30°	320.3	48.4
0°-40°	325.4	49.2
0°-60°	329.5	49.8
0°-90°	330.8	50.0
90°-120°	1.4	0.2
90°-150°	10.7	1.6
90°-180°	331.0	50.0
0°-180°	661.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4364	
5°	2933	219
15°	211	79
25°	46	22
35°	7	5
45°	3	3
55°	1	2
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	1	1
125°	1	2
135°	3	3
145°	7	5
155°	46	22
165°	211	79
175°	2933	219
180°	4364	



TEST NUMBER: P221313

CATALOG NUMBER: 9002-W2-FL-LED2797-S-BK-L1-UNV

CANDELA DISTRIBUTION (FULL):

0°	
0°	4363.7
1°	4256.2
2°	4023.9
3°	3686.1
4°	3308.0
5°	2932.7
6°	2562.5
7°	2187.3
8°	1795.4
9°	1400.0
10°	1031.9
11°	720.2
12°	489.3
13°	347.1
14°	264.1
15°	210.7
17.5°	136.4
20°	98.9
22.5°	71.4
25°	46.2
27.5°	26.7
30°	15.2
32.5°	10.1
35°	7.2
37.5°	5.8
40°	5.1
42.5°	4.3
45°	2.9
47.5°	2.9
50°	2.2
52.5°	2.2
55°	1.4
57.5°	1.4
60°	1.4
62.5°	1.4
65°	0.7
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



TEST NUMBER: P221313

CATALOG NUMBER: 9002-W2-FL-LED2797-S-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	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°	0.7
117.5°	1.4
120°	1.4
122.5°	1.4
125°	1.4
127.5°	2.2
130°	2.2
132.5°	2.9
135°	2.9
137.5°	4.3
140°	5.1
142.5°	5.8
145°	7.2
147.5°	10.1
150°	15.2
152.5°	26.7
155°	46.2
157.5°	71.4
160°	98.9
162.5°	136.4
165°	210.7
166°	264.1
167°	347.1
168°	489.3
169°	720.2
170°	1031.9
171°	1400.0
172°	1795.4
173°	2187.3
174°	2562.5
175°	2932.7
176°	3308.0
177°	3686.1
178°	4023.9
179°	4256.2



TEST NUMBER: P221313

CATALOG NUMBER: 9002-W2-FL-LED2797-S-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

180° | $\frac{0^\circ}{4363.7}$

(END OF REPORT)