

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: P221361

Luminaire Tested: **9002-W2-FL-LED4097-S-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221361
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-LED4097-S-BK-L1-UNV
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, FLUSH LENS, SPOT OPTIC,
BLACK HOUSING.
Light Source: (1) 4000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

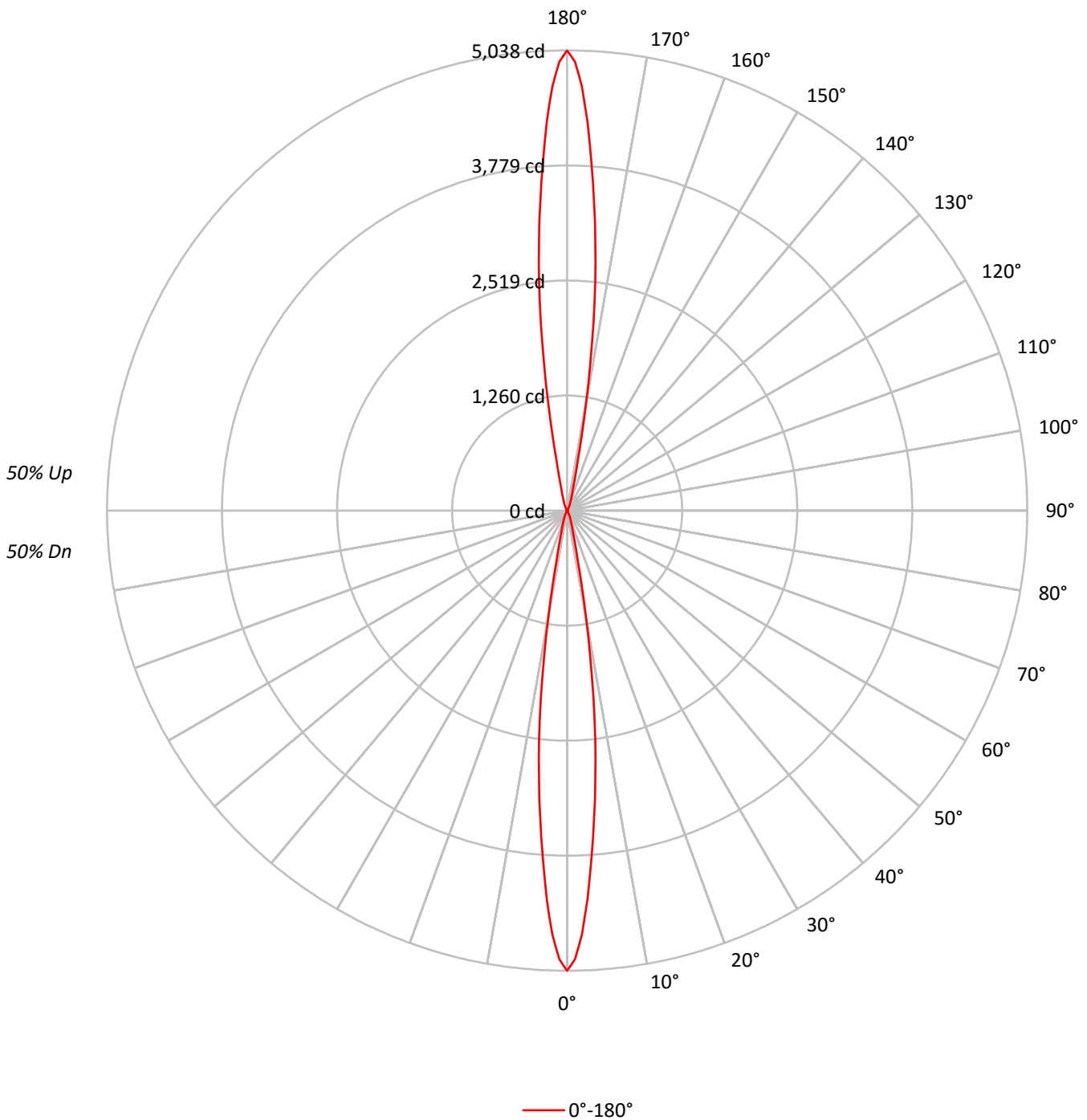
Lumens per Lamp: N/A
Luminaire Lumens: 763.7 lumens
Efficiency: N/A
Efficacy: 38.2 lumens/watt
Spacing Criteria (0/90/45): 0.24 / 0.24 / 0.24
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: General Diffuse

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: P221361
CATALOG NUMBER: 9002-W2-FL-LED4097-S-BK-L1-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P221361

CATALOG NUMBER: 9002-W2-FL-LED4097-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	69	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°	2485399
5°	1676766
10°	596830
15°	124274
20°	59907
25°	29016
30°	9970
35°	4999
40°	3736
45°	2303
50°	1919
55°	1462
60°	1677
65°	934
70°	1154
75°	0
80°	0
85°	0



TEST NUMBER: P221361

CATALOG NUMBER: 9002-W2-FL-LED4097-S-BK-L1-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.4	33.2
10°-20°	90.8	11.9
20°-30°	25.5	3.3
30°-40°	5.9	0.8
40°-50°	3.0	0.4
50°-60°	1.8	0.2
60°-70°	1.1	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°	1.1	0.1
120°-130°	1.8	0.2
130°-140°	3.0	0.4
140°-150°	5.9	0.8
150°-160°	25.5	3.3
160°-170°	90.8	11.9
170°-180°	253.4	33.2
0°-30°	369.7	48.4
0°-40°	375.6	49.2
0°-60°	380.4	49.8
0°-90°	381.9	50.0
90°-120°	1.6	0.2
90°-150°	12.3	1.6
90°-180°	382.0	50.0
0°-180°	763.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5038	
5°	3386	253
15°	243	91
25°	53	26
35°	8	6
45°	3	3
55°	2	2
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	1
115°	1	1
125°	2	2
135°	3	3
145°	8	6
155°	53	26
165°	243	91
175°	3386	253
180°	5038	



TEST NUMBER: P221361

CATALOG NUMBER: 9002-W2-FL-LED4097-S-BK-L1-UNV

CANDELA DISTRIBUTION (FULL):

0°	
0°	5037.5
1°	4913.4
2°	4645.2
3°	4255.3
4°	3818.8
5°	3385.6
6°	2958.2
7°	2525.0
8°	2072.7
9°	1616.1
10°	1191.3
11°	831.4
12°	564.8
13°	400.7
14°	304.9
15°	243.3
17.5°	157.4
20°	114.1
22.5°	82.5
25°	53.3
27.5°	30.8
30°	17.5
32.5°	11.7
35°	8.3
37.5°	6.7
40°	5.8
42.5°	5.0
45°	3.3
47.5°	3.3
50°	2.5
52.5°	2.5
55°	1.7
57.5°	1.7
60°	1.7
62.5°	1.7
65°	0.8
67.5°	0.8
70°	0.8
72.5°	0.8
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0



TEST NUMBER: P221361

CATALOG NUMBER: 9002-W2-FL-LED4097-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°	0.8
110°	0.8
112.5°	0.8
115°	0.8
117.5°	1.7
120°	1.7
122.5°	1.7
125°	1.7
127.5°	2.5
130°	2.5
132.5°	3.3
135°	3.3
137.5°	5.0
140°	5.8
142.5°	6.7
145°	8.3
147.5°	11.7
150°	17.5
152.5°	30.8
155°	53.3
157.5°	82.5
160°	114.1
162.5°	157.4
165°	243.3
166°	304.9
167°	400.7
168°	564.8
169°	831.4
170°	1191.3
171°	1616.1
172°	2072.7
173°	2525.0
174°	2958.2
175°	3385.6
176°	3818.8
177°	4255.3
178°	4645.2
179°	4913.4



TEST NUMBER: P221361

CATALOG NUMBER: 9002-W2-FL-LED4097-S-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

180° | $\frac{0^\circ}{5037.5}$

(END OF REPORT)