

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: P221323

Luminaire Tested: **9002-W2-FL-LED3090-W-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221323
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29424)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9002-W2-FL-LED3090-W-BK-L1-UNV
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, FLUSH LENS, WIDE FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3000K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1519.4 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Spacing Criteria (0/90/45): 0.87 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: General Diffuse

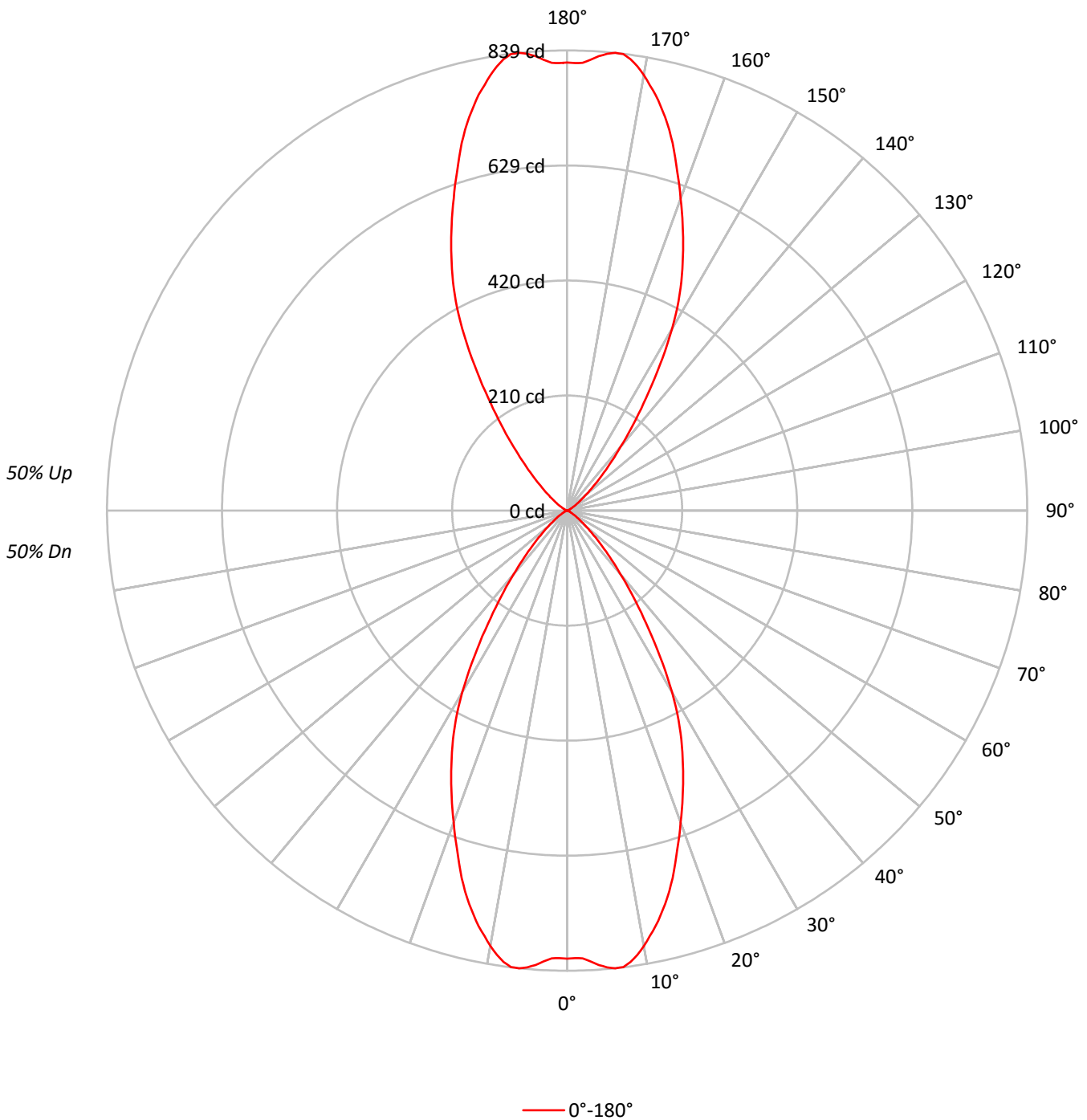
Input Watts (W): 20
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P221323

CATALOG NUMBER: 9002-W2-FL-LED3090-W-BK-L1-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P221323

CATALOG NUMBER: 9002-W2-FL-LED3090-W-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	100	97	93	91	92	89	87	85	76	75	73		64	63	62		53	52	52	47
2	93	87	82	78	86	81	77	73	70	67	64		59	57	56		50	49	47	43
3	87	79	73	69	80	74	69	65	64	60	57		55	52	50		47	45	44	40
4	81	72	66	61	75	68	62	58	59	55	52		51	48	46		44	42	40	37
5	75	66	59	54	70	62	56	52	54	50	47		47	44	42		41	39	37	34
6	71	60	54	49	66	57	51	47	50	46	43		44	41	38		38	36	34	32
7	66	56	49	44	62	53	47	43	47	42	39		41	38	35		36	34	32	30
8	62	52	45	40	58	49	43	39	44	39	36		39	35	33		34	32	30	28
9	59	48	42	37	55	46	40	36	41	36	33		36	33	30		32	30	28	26
10	55	45	38	34	52	43	37	33	38	34	31		34	31	28		30	28	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	402992
5°	414090
10°	403999
15°	367203
20°	317651
25°	271267
30°	218026
35°	151239
40°	97640
45°	59378
50°	34464
55°	19354
60°	10262
65°	5604
70°	2308
75°	0
80°	0
85°	0



TEST NUMBER: P221323

CATALOG NUMBER: 9002-W2-FL-LED3090-W-BK-L1-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.0	5.2
10°-20°	199.1	13.1
20°-30°	227.1	14.9
30°-40°	158.9	10.5
40°-50°	68.5	4.5
50°-60°	21.6	1.4
60°-70°	5.0	0.3
70°-80°	0.4	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.6	0.0
110°-120°	5.0	0.3
120°-130°	21.6	1.4
130°-140°	68.5	4.5
140°-150°	158.9	10.5
150°-160°	227.1	14.9
160°-170°	199.1	13.1
170°-180°	79.0	5.2
0°-30°	505.2	33.3
0°-40°	664.1	43.7
0°-60°	754.3	49.6
0°-90°	759.7	50.0
90°-120°	5.6	0.4
90°-150°	254.7	16.8
90°-180°	760.0	50.0
0°-180°	1519.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	817	
5°	836	79
15°	719	199
25°	498	227
35°	251	159
45°	85	69
55°	22	22
65°	5	5
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	1
115°	5	5
125°	22	22
135°	85	69
145°	251	159
155°	498	227
165°	719	199
175°	836	79
180°	817	



TEST NUMBER: P221323

CATALOG NUMBER: 9002-W2-FL-LED3090-W-BK-L1-UNV

CANDELA DISTRIBUTION (FULL):

0°	
0°	816.8
1°	816.0
2°	816.8
3°	823.2
4°	830.5
5°	836.1
6°	839.3
7°	838.5
8°	831.3
9°	820.0
10°	806.4
11°	790.3
12°	775.1
13°	757.4
14°	739.0
15°	718.9
16°	697.3
17°	673.2
18°	649.9
19°	627.5
20°	605.0
21°	584.1
22°	562.5
23°	540.8
24°	519.9
25°	498.3
26°	477.4
27°	455.7
28°	432.5
29°	408.4
30°	382.7
32.5°	314.5
35°	251.1
37.5°	197.4
40°	151.6
42.5°	114.7
45°	85.1
47.5°	61.8
50°	44.9
52.5°	32.1
55°	22.5
57.5°	15.2
60°	10.4
62.5°	7.2
65°	4.8



TEST NUMBER: P221323

CATALOG NUMBER: 9002-W2-FL-LED3090-W-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	0°
67.5°	2.4
70°	1.6
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
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°	1.6
112.5°	2.4
115°	4.8
117.5°	7.2
120°	10.4
122.5°	15.2
125°	22.5
127.5°	32.1
130°	44.9
132.5°	61.8
135°	85.1
137.5°	114.7
140°	151.6
142.5°	197.4
145°	251.1
147.5°	314.5
150°	382.7
151°	408.4
152°	432.5
153°	455.7
154°	477.4
155°	498.3
156°	519.9
157°	540.8
158°	562.5
159°	584.1
160°	605.0
161°	627.5



TEST NUMBER: P221323

CATALOG NUMBER: 9002-W2-FL-LED3090-W-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	0°
162°	649.9
163°	673.2
164°	697.3
165°	718.9
166°	739.0
167°	757.4
168°	775.1
169°	790.3
170°	806.4
171°	820.0
172°	831.3
173°	838.5
174°	839.3
175°	836.1
176°	830.5
177°	823.2
178°	816.8
179°	816.0
180°	816.8

(END OF REPORT)