

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: P222029

Luminaire Tested: **9004-W2-FL-LED3090-W-BK-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222029
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29499)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9004-W2-FL-LED3090-W-BK-L3-UNV
Description: LUMIERE LANTERRA 9004 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: 4453.6 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

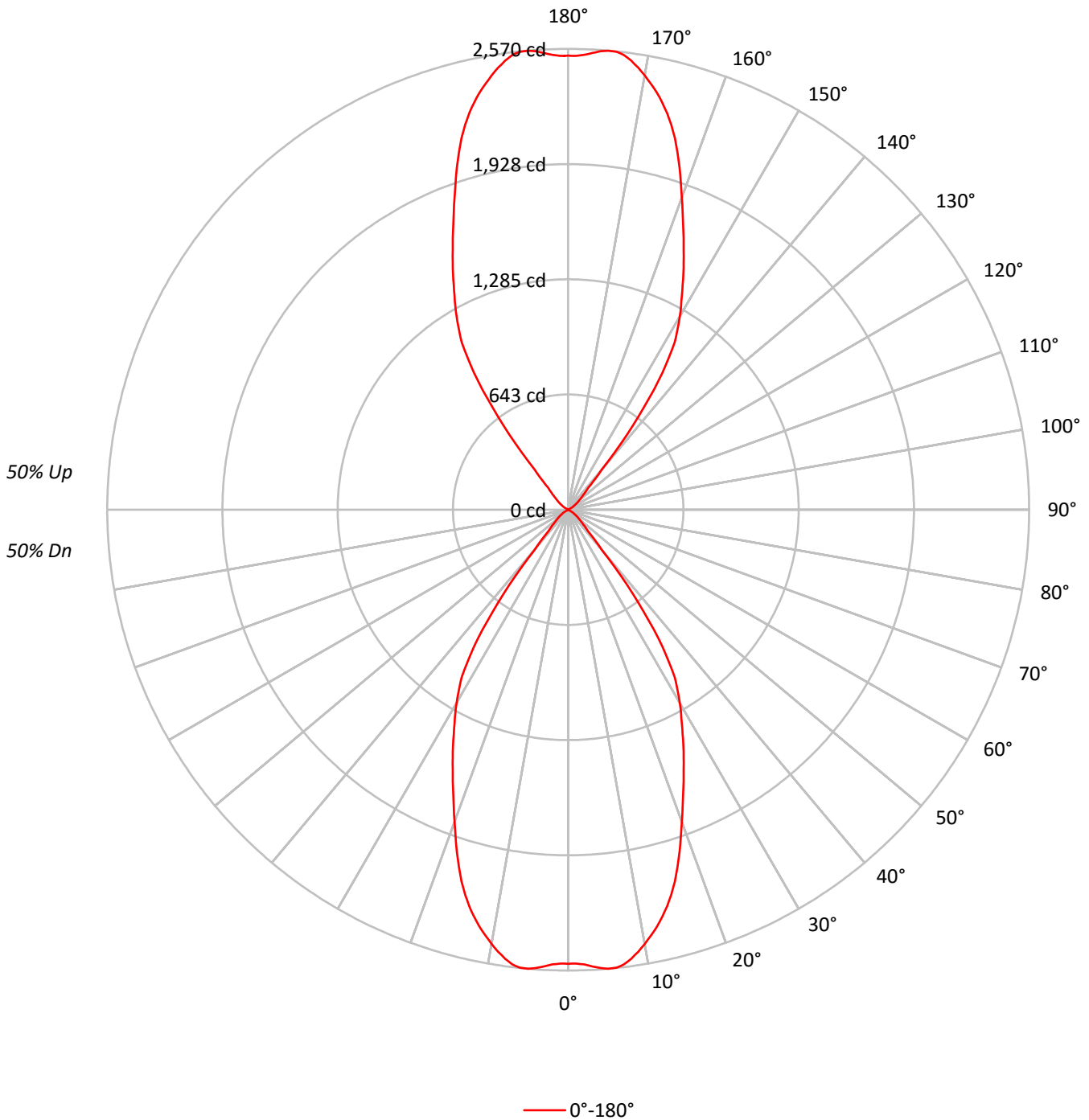
Input Watts (W): 57
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P222029

CATALOG NUMBER: 9004-W2-FL-LED3090-W-BK-L3-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P222029

CATALOG NUMBER: 9004-W2-FL-LED3090-W-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	0
RCR																				
0	107	107	107	107	99	99	99	99	83	83	83		69	69	69		56	56	56	50
1	100	97	94	91	92	90	87	85	76	75	73		64	63	62		53	53	52	47
2	93	88	83	79	86	81	77	74	70	67	65		60	58	56		50	49	48	43
3	87	80	74	69	81	74	69	65	65	61	58		56	53	51		47	46	44	40
4	81	73	66	61	76	68	63	58	60	56	52		52	49	47		44	42	41	38
5	76	67	60	55	71	63	57	53	55	51	48		48	45	43		42	40	38	35
6	71	61	55	50	66	58	52	48	51	47	43		45	42	39		39	37	35	33
7	67	57	50	45	62	54	48	43	48	43	40		42	39	36		37	35	33	31
8	63	52	46	41	59	50	44	40	45	40	37		40	36	34		35	33	31	29
9	59	49	42	38	56	46	41	37	42	37	34		37	34	31		33	31	29	27
10	56	46	39	35	52	43	38	34	39	35	32		35	32	29		31	29	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	312348
5°	318184
10°	308061
15°	283717
20°	243136
25°	207344
30°	177322
35°	132553
40°	47033
45°	21997
50°	14545
55°	9785
60°	4934
65°	1167
70°	866
75°	763
80°	0
85°	0



TEST NUMBER: P222029

CATALOG NUMBER: 9004-W2-FL-LED3090-W-BK-L3-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.8	5.4
10°-20°	613.2	13.8
20°-30°	700.0	15.7
30°-40°	513.9	11.5
40°-50°	109.1	2.4
50°-60°	41.2	0.9
60°-70°	5.9	0.1
70°-80°	1.6	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	1.6	0.0
110°-120°	5.9	0.1
120°-130°	41.2	0.9
130°-140°	109.1	2.4
140°-150°	513.9	11.5
150°-160°	700.0	15.7
160°-170°	613.2	13.8
170°-180°	241.8	5.4
0°-30°	1555.1	34.9
0°-40°	2069.0	46.5
0°-60°	2219.3	49.8
0°-90°	2226.8	50.0
90°-120°	7.5	0.2
90°-150°	671.7	15.1
90°-180°	2227.0	50.0
0°-180°	4453.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2532	
5°	2570	242
15°	2222	613
25°	1524	700
35°	880	514
45°	126	109
55°	46	41
65°	4	6
75°	2	2
85°	0	0
90°	0	0
95°	0	0
105°	2	2
115°	4	6
125°	46	41
135°	126	109
145°	880	514
155°	1524	700
165°	2222	613
175°	2570	242
180°	2532	



TEST NUMBER: P222029

CATALOG NUMBER: 9004-W2-FL-LED3090-W-BK-L3-UNV

CANDELA DISTRIBUTION (FULL):

0°	
0°	2532.3
1°	2531.5
2°	2537.8
3°	2550.6
4°	2562.6
5°	2569.8
6°	2568.2
7°	2554.6
8°	2528.3
9°	2495.5
10°	2459.6
11°	2418.9
12°	2377.4
13°	2330.3
14°	2279.3
15°	2221.8
16°	2156.4
17°	2083.7
18°	2008.7
19°	1929.7
20°	1852.3
21°	1780.5
22°	1711.0
23°	1645.6
24°	1583.4
25°	1523.5
26°	1465.2
27°	1406.2
28°	1349.5
29°	1296.9
30°	1245.0
32.5°	1105.3
35°	880.3
37.5°	594.6
40°	292.1
42.5°	164.4
45°	126.1
47.5°	99.0
50°	75.8
52.5°	59.9
55°	45.5
57.5°	32.7
60°	20.0
62.5°	5.6
65°	4.0

TEST NUMBER: P222029

CATALOG NUMBER: 9004-W2-FL-LED3090-W-BK-L3-UNV

CANDELA DISTRIBUTION (continued):

	0°
67.5°	3.2
70°	2.4
72.5°	2.4
75°	1.6
77.5°	0.8
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°	0.8
105°	1.6
107.5°	2.4
110°	2.4
112.5°	3.2
115°	4.0
117.5°	5.6
120°	20.0
122.5°	32.7
125°	45.5
127.5°	59.9
130°	75.8
132.5°	99.0
135°	126.1
137.5°	164.4
140°	292.1
142.5°	594.6
145°	880.3
147.5°	1105.3
150°	1245.0
151°	1296.9
152°	1349.5
153°	1406.2
154°	1465.2
155°	1523.5
156°	1583.4
157°	1645.6
158°	1711.0
159°	1780.5
160°	1852.3
161°	1929.7



TEST NUMBER: P222029

CATALOG NUMBER: 9004-W2-FL-LED3090-W-BK-L3-UNV

CANDELA DISTRIBUTION (continued):

	0°
162°	2008.7
163°	2083.7
164°	2156.4
165°	2221.8
166°	2279.3
167°	2330.3
168°	2377.4
169°	2418.9
170°	2459.6
171°	2495.5
172°	2528.3
173°	2554.6
174°	2568.2
175°	2569.8
176°	2562.6
177°	2550.6
178°	2537.8
179°	2531.5
180°	2532.3

(END OF REPORT)