

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: P222023

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P222023  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29496)  
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-S-BK-L3-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, SPOT OPTIC, BLACK HOUSING.  
Light Source: (1) 3000K CCT, 90 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4471.3 lumens  
Efficiency: N/A  
Efficacy: 78.2 lumens/watt  
Spacing Criteria (0/90/45): 0.27 / 0.27 / 0.27  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: General Diffuse

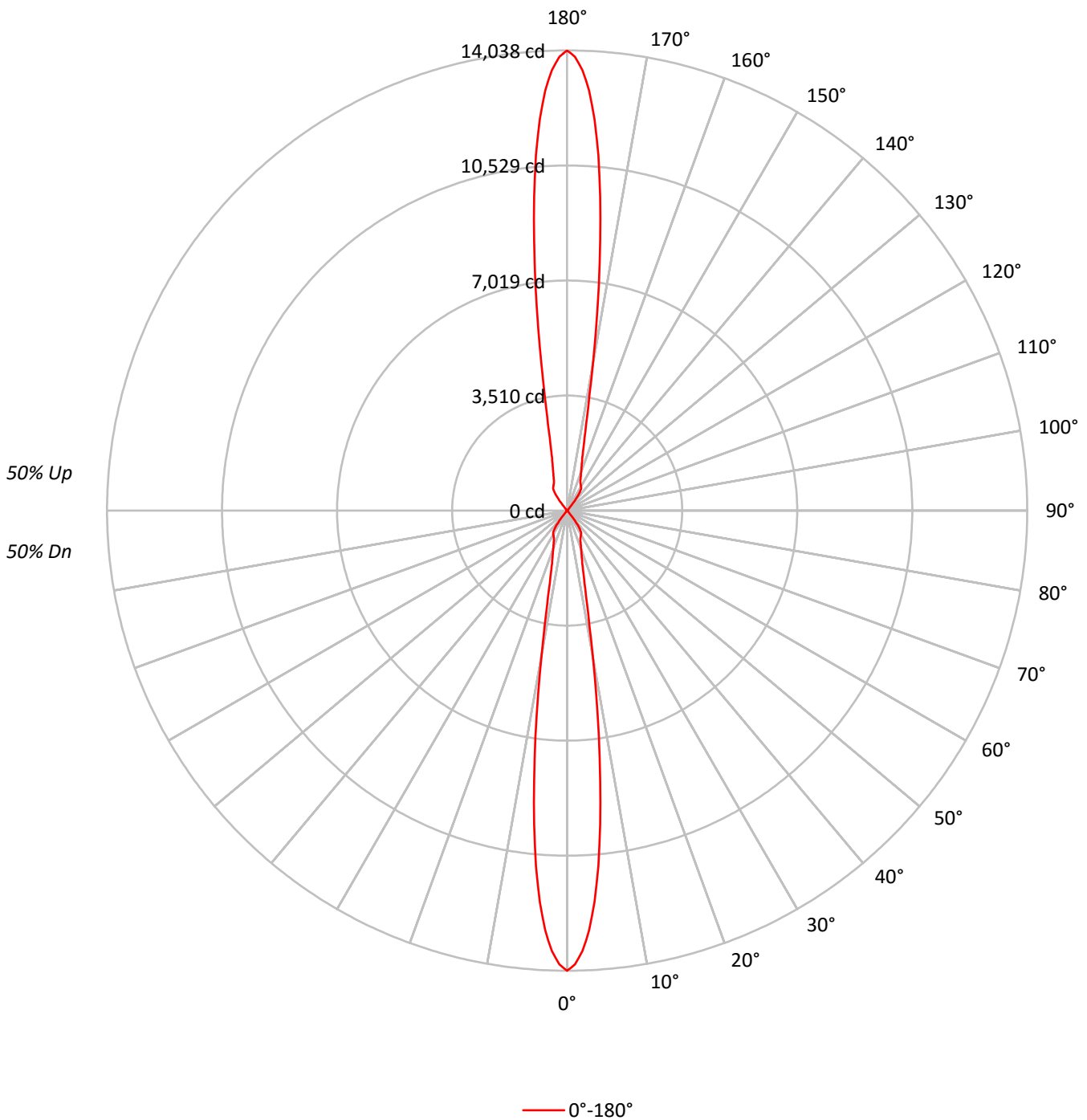
Input Watts (W): 57.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**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	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	97	95	92	93	90	88	86	77	76	74	65	64	63	54	54	53	48				
2	95	89	85	81	88	83	80	76	72	69	67	62	60	58	52	51	50	46				
3	89	82	77	73	83	77	72	69	67	64	62	58	56	54	50	49	48	44				
4	84	76	70	66	78	72	67	63	63	60	57	55	53	51	48	46	45	42				
5	79	71	65	60	74	67	62	58	59	56	53	53	50	48	46	44	43	40				
6	75	66	60	56	70	63	58	54	56	52	49	50	47	45	44	43	41	39				
7	71	62	56	52	67	59	54	50	53	49	47	48	45	43	43	41	40	37				
8	68	59	53	49	64	56	51	47	51	47	44	46	43	41	41	39	38	36				
9	65	56	50	46	61	53	48	45	48	45	42	44	41	39	40	38	37	35				
10	62	53	47	44	59	51	46	42	46	43	40	42	40	38	39	37	35	34				

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	1731514
5°	1347820
10°	561351
15°	237350
20°	162896
25°	130013
30°	120152
35°	98297
40°	20691
45°	4727
50°	1689
55°	1376
60°	789
65°	467
70°	289
75°	381
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	818.1	18.3
10°-20°	573.3	12.8
20°-30°	451.9	10.1
30°-40°	355.8	8.0
40°-50°	28.7	0.6
50°-60°	5.6	0.1
60°-70°	1.5	0.0
70°-80°	0.7	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.7	0.0
110°-120°	1.5	0.0
120°-130°	5.6	0.1
130°-140°	28.7	0.6
140°-150°	355.8	8.0
150°-160°	451.9	10.1
160°-170°	573.3	12.8
170°-180°	818.1	18.3
0°-30°	1843.3	41.2
0°-40°	2199.1	49.2
0°-60°	2233.4	50.0
0°-90°	2235.6	50.0
90°-120°	2.2	0.0
90°-150°	392.3	8.8
90°-180°	2236.0	50.0
0°-180°	4471.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	14038	
5°	10886	818
15°	1859	573
25°	955	452
35°	653	356
45°	27	29
55°	6	6
65°	2	1
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	2	1
125°	6	6
135°	27	29
145°	653	356
155°	955	452
165°	1859	573
175°	10886	818
180°	14038	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	14037.9
1°	13844.8
2°	13443.4
3°	12820.9
4°	11969.3
5°	10885.6
6°	9634.2
7°	8282.3
8°	6955.9
9°	5620.8
10°	4481.9
11°	3572.9
12°	2913.7
13°	2446.9
14°	2108.5
15°	1858.7
16°	1671.1
17°	1533.9
18°	1429.3
19°	1329.6
20°	1241.0
21°	1167.6
22°	1102.1
23°	1044.7
24°	994.4
25°	955.3
26°	925.8
27°	903.4
28°	881.9
29°	862.7
30°	843.6
32.5°	795.7
35°	652.8
37.5°	389.5
40°	128.5
42.5°	38.3
45°	27.1
47.5°	19.2
50°	8.8
52.5°	8.0
55°	6.4
57.5°	4.8
60°	3.2
62.5°	1.6
65°	1.6



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	0.8
70°	0.8
72.5°	0.8
75°	0.8
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°	0.8
107.5°	0.8
110°	0.8
112.5°	0.8
115°	1.6
117.5°	1.6
120°	3.2
122.5°	4.8
125°	6.4
127.5°	8.0
130°	8.8
132.5°	19.2
135°	27.1
137.5°	38.3
140°	128.5
142.5°	389.5
145°	652.8
147.5°	795.7
150°	843.6
151°	862.7
152°	881.9
153°	903.4
154°	925.8
155°	955.3
156°	994.4
157°	1044.7
158°	1102.1
159°	1167.6
160°	1241.0
161°	1329.6



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**CANDELA DISTRIBUTION (continued):**

	0°
162°	1429.3
163°	1533.9
164°	1671.1
165°	1858.7
166°	2108.5
167°	2446.9
168°	2913.7
169°	3572.9
170°	4481.9
171°	5620.8
172°	6955.9
173°	8282.3
174°	9634.2
175°	10885.6
176°	11969.3
177°	12820.9
178°	13443.4
179°	13844.8
180°	14037.9

(END OF REPORT)