

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: P222165

Luminaire Tested: **9004-W2-FL-LED5080-S-BK-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P222165  
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-LED5080-S-BK-L1-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, SPOT OPTIC, BLACK HOUSING.  
Light Source: (1) 5000K CCT, 80 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

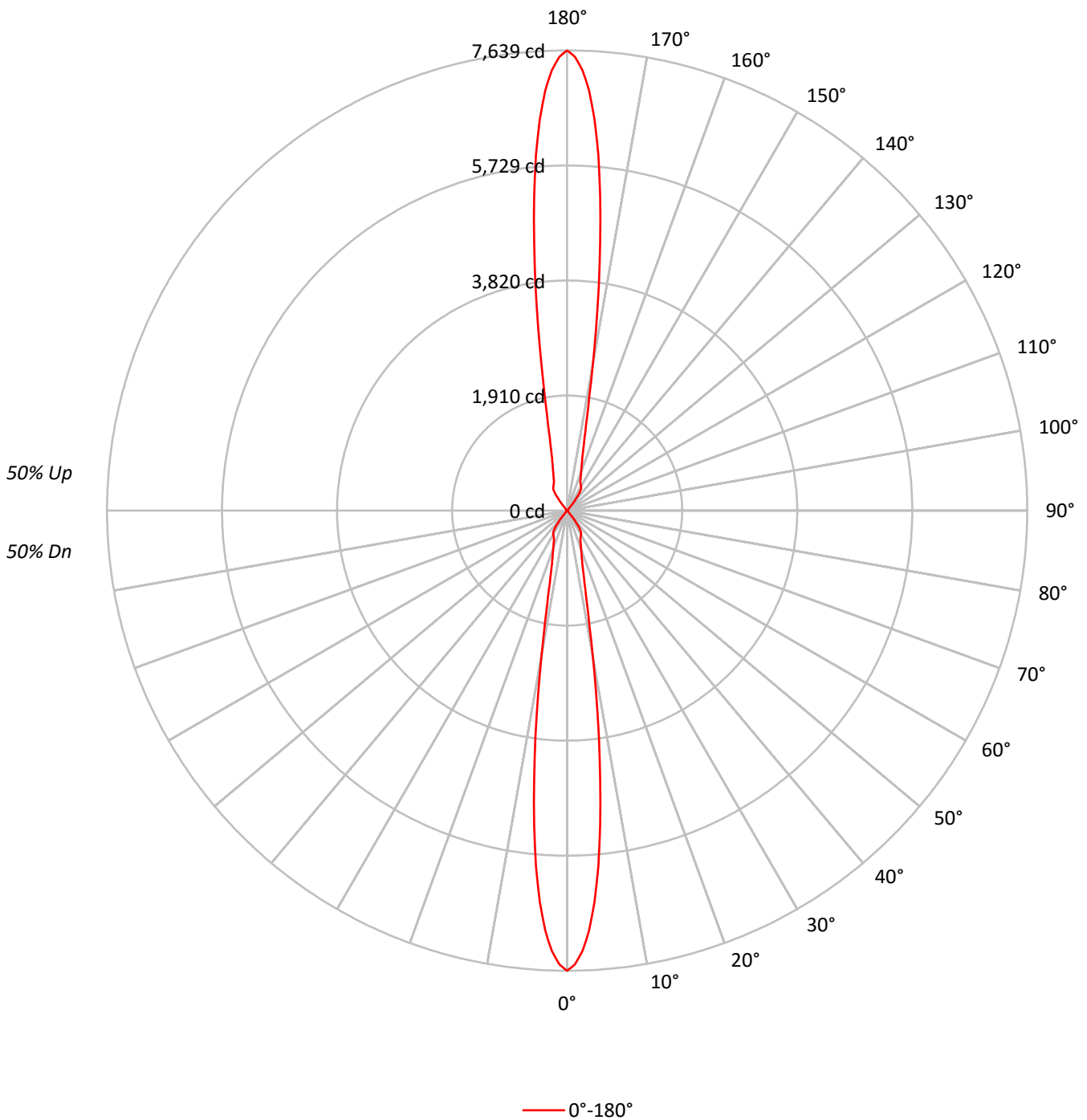
Lumens per Lamp: N/A  
Luminaire Lumens: 2432.9 lumens  
Efficiency: N/A  
Efficacy: 123.5 lumens/watt  
Spacing Criteria (0/90/45): 0.27 / 0.27 / 0.27  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 19.7  
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	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°	942225
5°	733429
10°	305468
15°	129153
20°	88641
25°	70743
30°	65374
35°	53485
40°	11255
45°	2582
50°	921
55°	753
60°	419
65°	263
70°	144
75°	191
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	445.2	18.3
10°-20°	312.0	12.8
20°-30°	245.9	10.1
30°-40°	193.6	8.0
40°-50°	15.6	0.6
50°-60°	3.0	0.1
60°-70°	0.8	0.0
70°-80°	0.4	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.4	0.0
110°-120°	0.8	0.0
120°-130°	3.0	0.1
130°-140°	15.6	0.6
140°-150°	193.6	8.0
150°-160°	245.9	10.1
160°-170°	312.0	12.8
170°-180°	445.2	18.3
0°-30°	1003.0	41.2
0°-40°	1196.6	49.2
0°-60°	1215.3	50.0
0°-90°	1216.5	50.0
90°-120°	1.2	0.0
90°-150°	213.4	8.8
90°-180°	1216.0	50.0
0°-180°	2432.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7639	
5°	5924	445
15°	1011	312
25°	520	246
35°	355	194
45°	15	16
55°	4	3
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	1	1
125°	4	3
135°	15	16
145°	355	194
155°	520	246
165°	1011	312
175°	5924	445
180°	7639	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	7638.9
1°	7533.8
2°	7315.3
3°	6976.6
4°	6513.2
5°	5923.5
6°	5242.5
7°	4506.9
8°	3785.1
9°	3058.6
10°	2438.9
11°	1944.2
12°	1585.5
13°	1331.5
14°	1147.3
15°	1011.4
16°	909.4
17°	834.7
18°	777.8
19°	723.5
20°	675.3
21°	635.3
22°	599.7
23°	568.5
24°	541.1
25°	519.8
26°	503.8
27°	491.6
28°	479.9
29°	469.4
30°	459.0
32.5°	433.0
35°	355.2
37.5°	211.9
40°	69.9
42.5°	20.8
45°	14.8
47.5°	10.4
50°	4.8
52.5°	4.3
55°	3.5
57.5°	2.6
60°	1.7
62.5°	0.9
65°	0.9



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	0.4
70°	0.4
72.5°	0.4
75°	0.4
77.5°	0.4
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°	0.4
105°	0.4
107.5°	0.4
110°	0.4
112.5°	0.4
115°	0.9
117.5°	0.9
120°	1.7
122.5°	2.6
125°	3.5
127.5°	4.3
130°	4.8
132.5°	10.4
135°	14.8
137.5°	20.8
140°	69.9
142.5°	211.9
145°	355.2
147.5°	433.0
150°	459.0
151°	469.4
152°	479.9
153°	491.6
154°	503.8
155°	519.8
156°	541.1
157°	568.5
158°	599.7
159°	635.3
160°	675.3
161°	723.5



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**CANDELA DISTRIBUTION (continued):**

	0°
162°	777.8
163°	834.7
164°	909.4
165°	1011.4
166°	1147.3
167°	1331.5
168°	1585.5
169°	1944.2
170°	2438.9
171°	3058.6
172°	3785.1
173°	4506.9
174°	5242.5
175°	5923.5
176°	6513.2
177°	6976.6
178°	7315.3
179°	7533.8
180°	7638.9

(END OF REPORT)