

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: P221925

Luminaire Tested: **9004-W2-[RW, RI]-LED5080-S-BK-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221925  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29491)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 9004-W2-[RW, RI]-LED5080-S-BK-L1-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED 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: 2155.6 lumens  
Efficiency: N/A  
Efficacy: 109.4 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

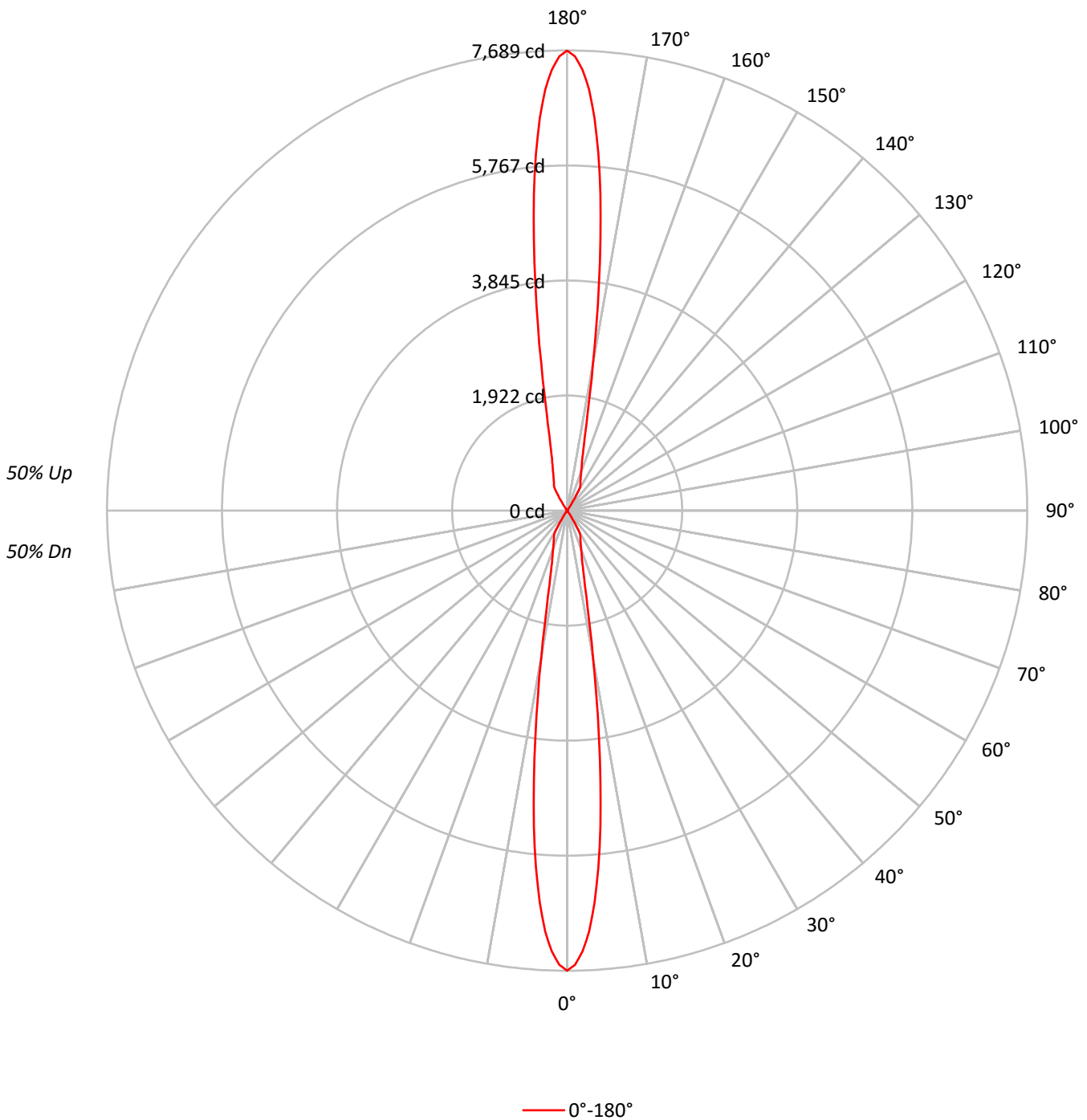
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	98	95	93	93	91	88	86	78	76	75		65	65	64		54	54	53	48
2	95	90	86	82	88	84	80	77	73	70	68		62	61	59		53	52	51	47
3	90	83	78	74	83	78	74	70	68	65	63		59	57	56		51	50	49	45
4	85	77	72	68	79	73	68	64	64	61	58		57	54	53		49	48	47	44
5	81	72	67	62	75	68	63	60	61	57	55		54	52	50		48	46	45	42
6	77	68	62	58	72	65	60	56	58	54	52		52	49	48		46	45	43	41
7	73	64	58	54	69	61	56	53	55	52	49		50	47	45		45	43	42	40
8	70	61	55	51	66	58	53	50	53	49	47		48	46	44		44	42	41	39
9	67	58	52	49	63	56	51	47	51	47	45		47	44	42		42	41	39	38
10	64	55	50	47	61	53	48	45	49	45	43		45	42	41		41	40	38	37

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

	0°
0°	948380
5°	740957
10°	312107
15°	132256
20°	89547
25°	71097
30°	52641
35°	4773
40°	1755
45°	523
50°	422
55°	473
60°	321
65°	263
70°	144
75°	191
80°	284
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	450.5	20.9
10°-20°	318.3	14.8
20°-30°	243.0	11.3
30°-40°	59.6	2.8
40°-50°	3.2	0.1
50°-60°	1.8	0.1
60°-70°	0.8	0.0
70°-80°	0.4	0.0
80°-90°	0.2	0.0
90°-100°	0.3	0.0
100°-110°	0.4	0.0
110°-120°	0.8	0.0
120°-130°	1.8	0.1
130°-140°	3.2	0.1
140°-150°	59.6	2.8
150°-160°	243.0	11.3
160°-170°	318.3	14.8
170°-180°	450.5	20.9
0°-30°	1011.8	46.9
0°-40°	1071.4	49.7
0°-60°	1076.4	49.9
0°-90°	1077.8	50.0
90°-120°	1.5	0.1
90°-150°	66.1	3.1
90°-180°	1078.0	50.0
0°-180°	2155.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7689	
5°	5984	450
15°	1036	318
25°	522	243
35°	32	60
45°	3	3
55°	2	2
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	1	1
125°	2	2
135°	3	3
145°	32	60
155°	522	243
165°	1036	318
175°	5984	450
180°	7689	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	7688.8
1°	7590.2
2°	7373.1
3°	7040.0
4°	6573.6
5°	5984.3
6°	5306.8
7°	4562.5
8°	3812.9
9°	3126.8
10°	2491.9
11°	1989.0
12°	1620.7
13°	1360.1
14°	1174.7
15°	1035.7
16°	928.9
17°	851.2
18°	789.5
19°	731.8
20°	682.2
22.5°	588.4
25°	522.4
26°	504.6
27°	489.9
28°	475.1
29°	436.0
30°	369.6
32.5°	166.3
35°	31.7
37.5°	17.4
40°	10.9
42.5°	4.8
45°	3.0
47.5°	2.6
50°	2.2
52.5°	2.2
55°	2.2
57.5°	1.7
60°	1.3
62.5°	1.3
65°	0.9
67.5°	0.4
70°	0.4
72.5°	0.4



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**CANDELA DISTRIBUTION (continued):**

	0°
75°	0.4
77.5°	0.4
80°	0.4
82.5°	0.4
85°	0.0
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.4
100°	0.4
102.5°	0.4
105°	0.4
107.5°	0.4
110°	0.4
112.5°	0.4
115°	0.9
117.5°	1.3
120°	1.3
122.5°	1.7
125°	2.2
127.5°	2.2
130°	2.2
132.5°	2.6
135°	3.0
137.5°	4.8
140°	10.9
142.5°	17.4
145°	31.7
147.5°	166.3
150°	369.6
151°	436.0
152°	475.1
153°	489.9
154°	504.6
155°	522.4
157.5°	588.4
160°	682.2
161°	731.8
162°	789.5
163°	851.2
164°	928.9
165°	1035.7
166°	1174.7
167°	1360.1



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**CANDELA DISTRIBUTION (continued):**

	0°
168°	1620.7
169°	1989.0
170°	2491.9
171°	3126.8
172°	3812.9
173°	4562.5
174°	5306.8
175°	5984.3
176°	6573.6
177°	7040.0
178°	7373.1
179°	7590.2
180°	7688.8

(END OF REPORT)