

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: P221811

Luminaire Tested: **9004-W2-[RW, RI]-LED3097-W-BK-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221811  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29494)  
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]-LED3097-W-BK-L1-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, WIDE FLOOD OPTIC, BLACK HOUSING.  
Light Source: (1) 3000K CCT, 97 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1408.7 lumens  
Efficiency: N/A  
Efficacy: 71.5 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.83  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: General Diffuse

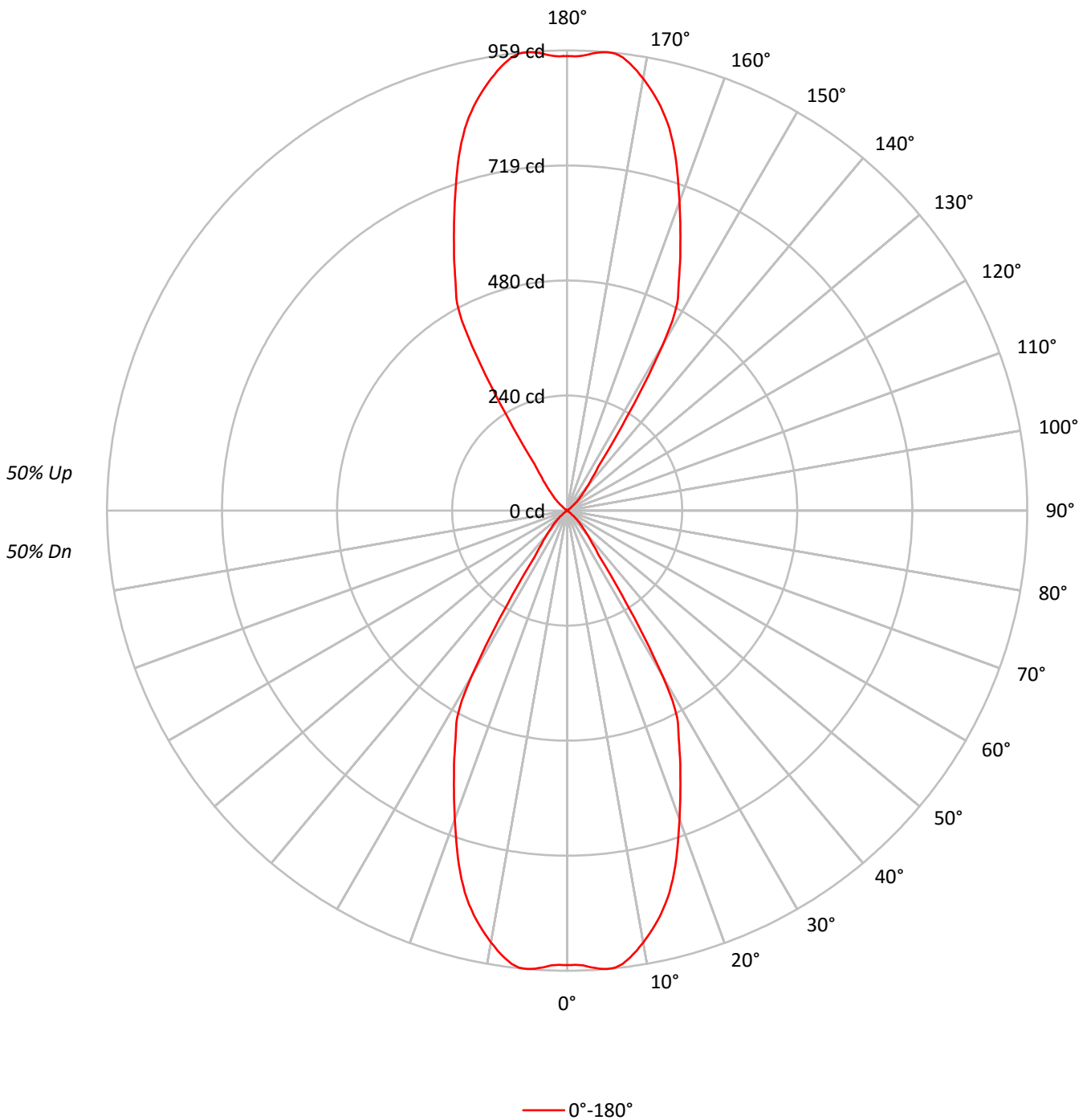
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	97	94	91	93	90	87	85	77	75	74		65	64	63		53	53	52	47
2	94	88	83	79	87	82	78	75	71	68	66		60	59	57		51	50	49	44
3	88	80	75	70	81	75	70	67	65	62	59		56	54	52		48	47	45	42
4	82	74	68	63	76	69	64	60	61	57	54		53	50	48		46	44	42	39
5	77	68	62	57	72	64	58	54	57	52	49		50	47	44		43	41	40	37
6	72	63	56	52	68	59	54	50	53	49	45		47	44	41		41	39	37	35
7	68	58	52	47	64	55	50	46	49	45	42		44	41	38		39	37	35	33
8	64	54	48	44	60	52	46	42	46	42	39		41	38	36		37	35	33	31
9	61	51	45	40	57	48	43	39	44	39	36		39	36	34		35	33	31	29
10	58	48	42	38	54	45	40	36	41	37	34		37	34	32		33	31	29	28

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

	0°
0°	116833
5°	118740
10°	114452
15°	105197
20°	89822
25°	75452
30°	56487
35°	17723
40°	10498
45°	6384
50°	2667
55°	452
60°	296
65°	175
70°	108
75°	143
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.1	6.4
10°-20°	227.2	16.1
20°-30°	253.1	18.0
30°-40°	101.0	7.2
40°-50°	28.9	2.0
50°-60°	3.2	0.2
60°-70°	0.6	0.0
70°-80°	0.3	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.3	0.0
110°-120°	0.6	0.0
120°-130°	3.2	0.2
130°-140°	28.9	2.0
140°-150°	101.0	7.2
150°-160°	253.1	18.0
160°-170°	227.2	16.1
170°-180°	90.1	6.4
0°-30°	570.4	40.5
0°-40°	671.4	47.7
0°-60°	703.4	49.9
0°-90°	704.3	50.0
90°-120°	0.9	0.1
90°-150°	133.9	9.5
90°-180°	704.0	50.0
0°-180°	1408.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	947	
5°	959	90
15°	824	227
25°	554	253
35°	118	101
45°	37	29
55°	2	3
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	1	1
125°	2	3
135°	37	29
145°	118	101
155°	554	253
165°	824	227
175°	959	90
180°	947	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	947.2
1°	946.9
2°	948.6
3°	953.1
4°	957.2
5°	959.0
6°	957.8
7°	951.6
8°	941.0
9°	928.0
10°	913.8
11°	898.5
12°	882.6
13°	864.8
14°	845.4
15°	823.8
16°	798.8
17°	771.9
18°	742.7
19°	712.9
20°	684.3
21°	656.5
22°	630.0
23°	604.0
24°	579.5
25°	554.4
26°	530.8
27°	510.5
28°	489.2
29°	451.8
30°	396.6
32.5°	231.9
35°	117.7
37.5°	87.0
40°	65.2
42.5°	48.4
45°	36.6
47.5°	27.1
50°	13.9
52.5°	3.5
55°	2.1
57.5°	1.5
60°	1.2
62.5°	0.9
65°	0.6



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	0.3
70°	0.3
72.5°	0.3
75°	0.3
77.5°	0.3
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°	0.3
105°	0.3
107.5°	0.3
110°	0.3
112.5°	0.3
115°	0.6
117.5°	0.9
120°	1.2
122.5°	1.5
125°	2.1
127.5°	3.5
130°	13.9
132.5°	27.1
135°	36.6
137.5°	48.4
140°	65.2
142.5°	87.0
145°	117.7
147.5°	231.9
150°	396.6
151°	451.8
152°	489.2
153°	510.5
154°	530.8
155°	554.4
156°	579.5
157°	604.0
158°	630.0
159°	656.5
160°	684.3
161°	712.9



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**CANDELA DISTRIBUTION (continued):**

	0°
162°	742.7
163°	771.9
164°	798.8
165°	823.8
166°	845.4
167°	864.8
168°	882.6
169°	898.5
170°	913.8
171°	928.0
172°	941.0
173°	951.6
174°	957.8
175°	959.0
176°	957.2
177°	953.1
178°	948.6
179°	946.9
180°	947.2

(END OF REPORT)