

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: P221807

Luminaire Tested: **9004-W2-[RW, RI]-LED3097-S-BK-L3-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221807  
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]-LED3097-S-BK-L3-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, SPOT OPTIC, BLACK HOUSING.  
Light Source: (1) 3000K CCT, 97 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3503.6 lumens  
Efficiency: N/A  
Efficacy: 61.5 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

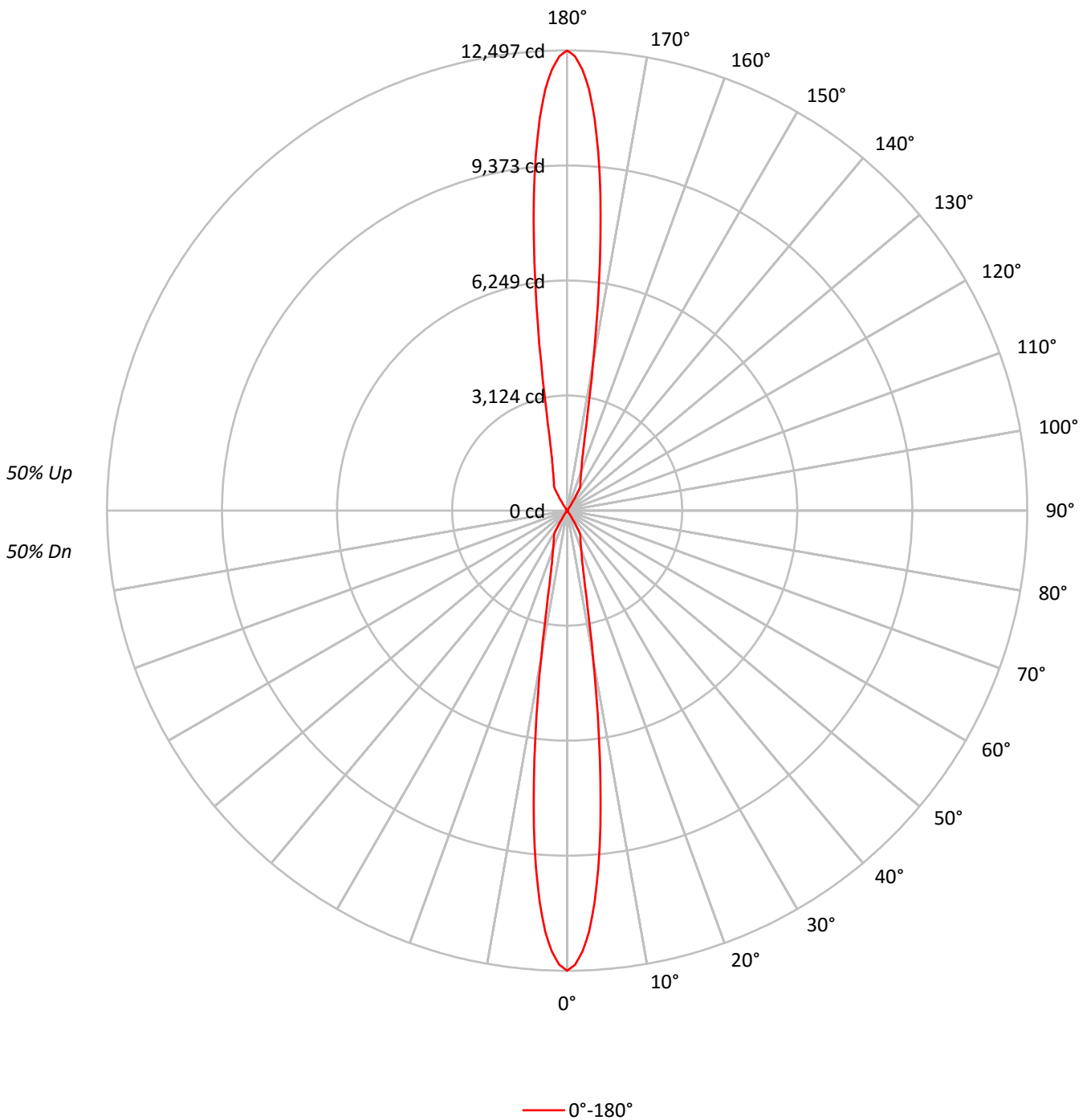
Input Watts (W): 57  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1541438
5°	1204292
10°	507269
15°	214965
20°	145556
25°	115560
30°	85556
35°	7755
40°	2834
45°	855
50°	672
55°	753
60°	518
65°	409
70°	252
75°	334
80°	497
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	732.2	20.9
10°-20°	517.3	14.8
20°-30°	395.0	11.3
30°-40°	96.8	2.8
40°-50°	5.2	0.1
50°-60°	2.8	0.1
60°-70°	1.4	0.0
70°-80°	0.7	0.0
80°-90°	0.3	0.0
90°-100°	0.5	0.0
100°-110°	0.7	0.0
110°-120°	1.4	0.0
120°-130°	2.8	0.1
130°-140°	5.2	0.1
140°-150°	96.8	2.8
150°-160°	395.0	11.3
160°-170°	517.3	14.8
170°-180°	732.2	20.9
0°-30°	1644.5	46.9
0°-40°	1741.4	49.7
0°-60°	1749.4	49.9
0°-90°	1751.8	50.0
90°-120°	2.6	0.1
90°-150°	107.4	3.1
90°-180°	1752.0	50.0
0°-180°	3503.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	12497	
5°	9726	732
15°	1683	517
25°	849	395
35°	52	97
45°	5	5
55°	4	3
65°	1	1
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	1	1
125°	4	3
135°	5	5
145°	52	97
155°	849	395
165°	1683	517
175°	9726	732
180°	12497	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	12496.9
1°	12336.6
2°	11983.7
3°	11442.3
4°	10684.3
5°	9726.4
6°	8625.3
7°	7415.5
8°	6197.3
9°	5082.0
10°	4050.1
11°	3232.7
12°	2634.2
13°	2210.7
14°	1909.3
15°	1683.4
16°	1509.8
17°	1383.4
18°	1283.2
19°	1189.3
20°	1108.9
22.5°	956.4
25°	849.1
26°	820.2
27°	796.2
28°	772.2
29°	708.7
30°	600.7
32.5°	270.3
35°	51.5
37.5°	28.2
40°	17.6
42.5°	7.8
45°	4.9
47.5°	4.2
50°	3.5
52.5°	3.5
55°	3.5
57.5°	2.8
60°	2.1
62.5°	2.1
65°	1.4
67.5°	0.7
70°	0.7
72.5°	0.7



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**CANDELA DISTRIBUTION (continued):**

	0°
75°	0.7
77.5°	0.7
80°	0.7
82.5°	0.7
85°	0.0
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.7
100°	0.7
102.5°	0.7
105°	0.7
107.5°	0.7
110°	0.7
112.5°	0.7
115°	1.4
117.5°	2.1
120°	2.1
122.5°	2.8
125°	3.5
127.5°	3.5
130°	3.5
132.5°	4.2
135°	4.9
137.5°	7.8
140°	17.6
142.5°	28.2
145°	51.5
147.5°	270.3
150°	600.7
151°	708.7
152°	772.2
153°	796.2
154°	820.2
155°	849.1
157.5°	956.4
160°	1108.9
161°	1189.3
162°	1283.2
163°	1383.4
164°	1509.8
165°	1683.4
166°	1909.3
167°	2210.7



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**CANDELA DISTRIBUTION (continued):**

	0°
168°	2634.2
169°	3232.7
170°	4050.1
171°	5082.0
172°	6197.3
173°	7415.5
174°	8625.3
175°	9726.4
176°	10684.3
177°	11442.3
178°	11983.7
179°	12336.6
180°	12496.9

(END OF REPORT)