

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: P221814

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221814  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29490)  
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-WT-L1-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, WIDE FLOOD OPTIC, WHITE HOUSING.  
Light Source: (1) 3000K CCT, 97 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1533.0 lumens  
Efficiency: N/A  
Efficacy: 77.8 lumens/watt  
Spacing Criteria (0/90/45): 0.84 / 0.84 / 0.83  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: General Diffuse

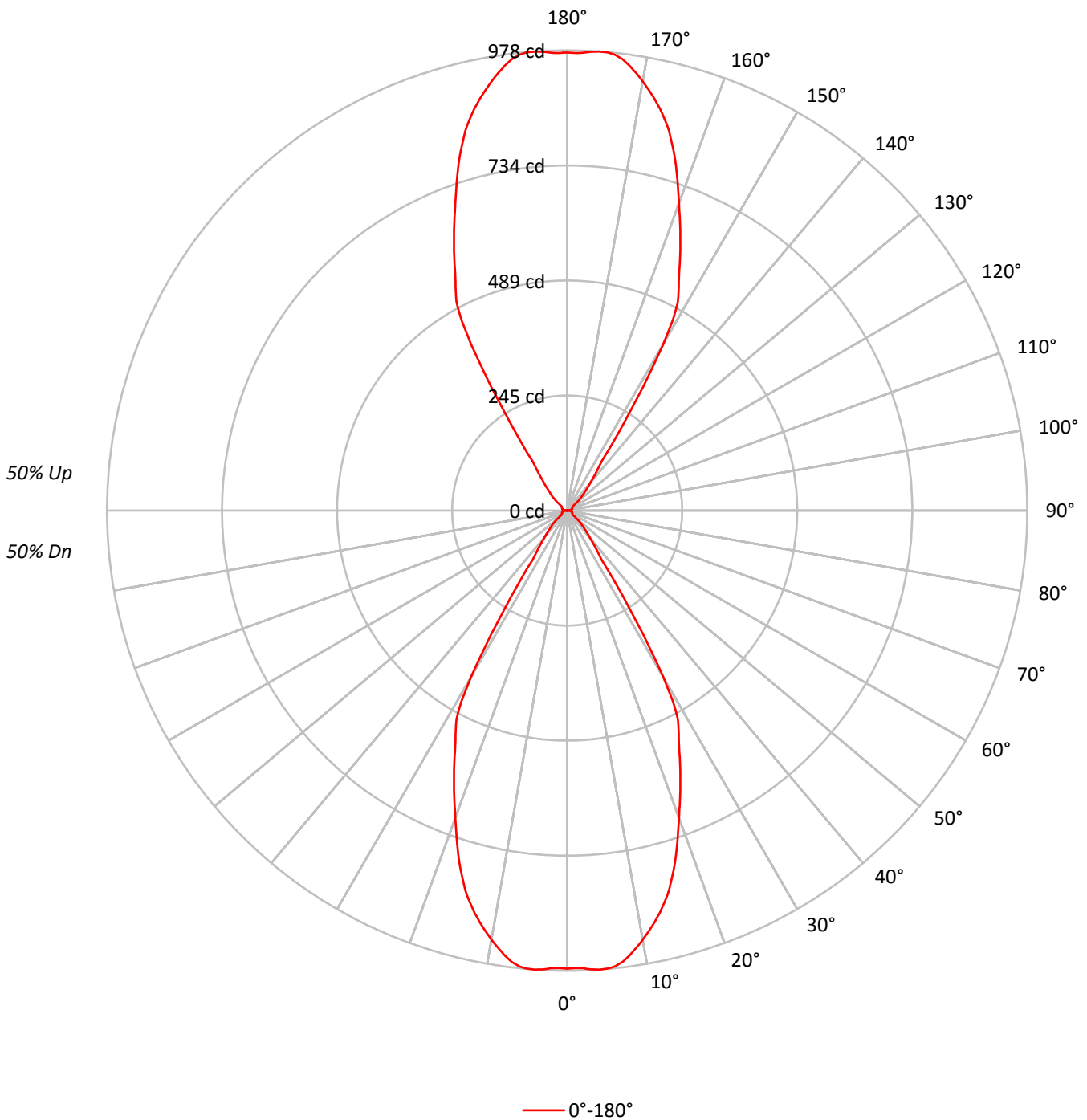
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	96	93	90	92	89	87	84	76	74	73	64	63	62	53	52	51	46
2	93	87	82	78	86	81	77	73	70	67	64	59	57	56	50	48	47	43
3	87	79	73	69	80	74	69	65	64	61	58	55	53	51	47	45	44	40
4	81	72	66	61	75	68	62	58	59	55	52	51	49	46	44	42	41	37
5	76	67	60	55	71	63	57	53	55	51	48	48	45	43	42	40	38	35
6	71	61	55	50	66	58	52	48	51	47	44	45	42	39	39	37	35	33
7	67	57	50	46	63	54	48	44	48	43	40	42	39	37	37	35	33	31
8	63	53	46	42	59	50	44	40	45	40	37	40	37	34	35	33	31	29
9	60	49	43	39	56	47	41	37	42	38	35	38	34	32	34	31	29	28
10	56	46	40	36	53	44	38	35	40	35	32	36	32	30	32	30	28	26

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

	0°
0°	120065
5°	121043
10°	115968
15°	106703
20°	91214
25°	76786
30°	58039
35°	19289
40°	12253
45°	8338
50°	4874
55°	2925
60°	3207
65°	3532
70°	4039
75°	4909
80°	5896
85°	5802



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.6	6.0
10°-20°	230.5	15.0
20°-30°	258.2	16.8
30°-40°	108.0	7.0
40°-50°	37.5	2.4
50°-60°	13.6	0.9
60°-70°	12.0	0.8
70°-80°	10.7	0.7
80°-90°	4.5	0.3
90°-100°	4.5	0.3
100°-110°	10.7	0.7
110°-120°	12.0	0.8
120°-130°	13.6	0.9
130°-140°	37.5	2.4
140°-150°	108.0	7.0
150°-160°	258.2	16.8
160°-170°	230.5	15.0
170°-180°	91.6	6.0
0°-30°	580.3	37.9
0°-40°	688.2	44.9
0°-60°	739.4	48.2
0°-90°	766.5	50.0
90°-120°	27.2	1.8
90°-150°	186.3	12.1
90°-180°	767.0	50.0
0°-180°	1533.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	973	
5°	978	92
15°	836	230
25°	564	258
35°	128	108
45°	48	37
55°	14	14
65°	12	12
75°	10	11
85°	4	4
90°	0	0
95°	4	4
105°	10	11
115°	12	12
125°	14	14
135°	48	37
145°	128	108
155°	564	258
165°	836	230
175°	978	92
180°	973	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	973.4
1°	972.5
2°	973.4
3°	976.4
4°	978.2
5°	977.6
6°	974.0
7°	966.4
8°	954.3
9°	940.7
10°	925.9
11°	910.3
12°	894.4
13°	876.4
14°	857.2
15°	835.6
16°	810.0
17°	783.1
18°	754.2
19°	724.1
20°	694.9
21°	667.7
22°	641.5
23°	615.5
24°	590.1
25°	564.2
26°	541.5
27°	521.4
28°	500.7
29°	463.0
30°	407.5
32.5°	244.3
35°	128.1
37.5°	98.0
40°	76.1
42.5°	59.3
45°	47.8
47.5°	38.4
50°	25.4
52.5°	15.0
55°	13.6
57.5°	13.3
60°	13.0
62.5°	12.7
65°	12.1



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	11.5
70°	11.2
72.5°	10.9
75°	10.3
77.5°	9.4
80°	8.3
82.5°	6.5
85°	4.1
87.5°	1.8
90°	0.0
92.5°	1.8
95°	4.1
97.5°	6.5
100°	8.3
102.5°	9.4
105°	10.3
107.5°	10.9
110°	11.2
112.5°	11.5
115°	12.1
117.5°	12.7
120°	13.0
122.5°	13.3
125°	13.6
127.5°	15.0
130°	25.4
132.5°	38.4
135°	47.8
137.5°	59.3
140°	76.1
142.5°	98.0
145°	128.1
147.5°	244.3
150°	407.5
151°	463.0
152°	500.7
153°	521.4
154°	541.5
155°	564.2
156°	590.1
157°	615.5
158°	641.5
159°	667.7
160°	694.9
161°	724.1



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**CANDELA DISTRIBUTION (continued):**

	0°
162°	754.2
163°	783.1
164°	810.0
165°	835.6
166°	857.2
167°	876.4
168°	894.4
169°	910.3
170°	925.9
171°	940.7
172°	954.3
173°	966.4
174°	974.0
175°	977.6
176°	978.2
177°	976.4
178°	973.4
179°	972.5
180°	973.4

(END OF REPORT)