

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: P221784

Luminaire Tested: **9004-W2-[RW, RI]-LED3090-S-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221784
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29487)
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]-LED3090-S-WT-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, SPOT OPTIC, WHITE HOUSING.
Light Source: (1) 3000K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1762.3 lumens
Efficiency: N/A
Efficacy: 89.5 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

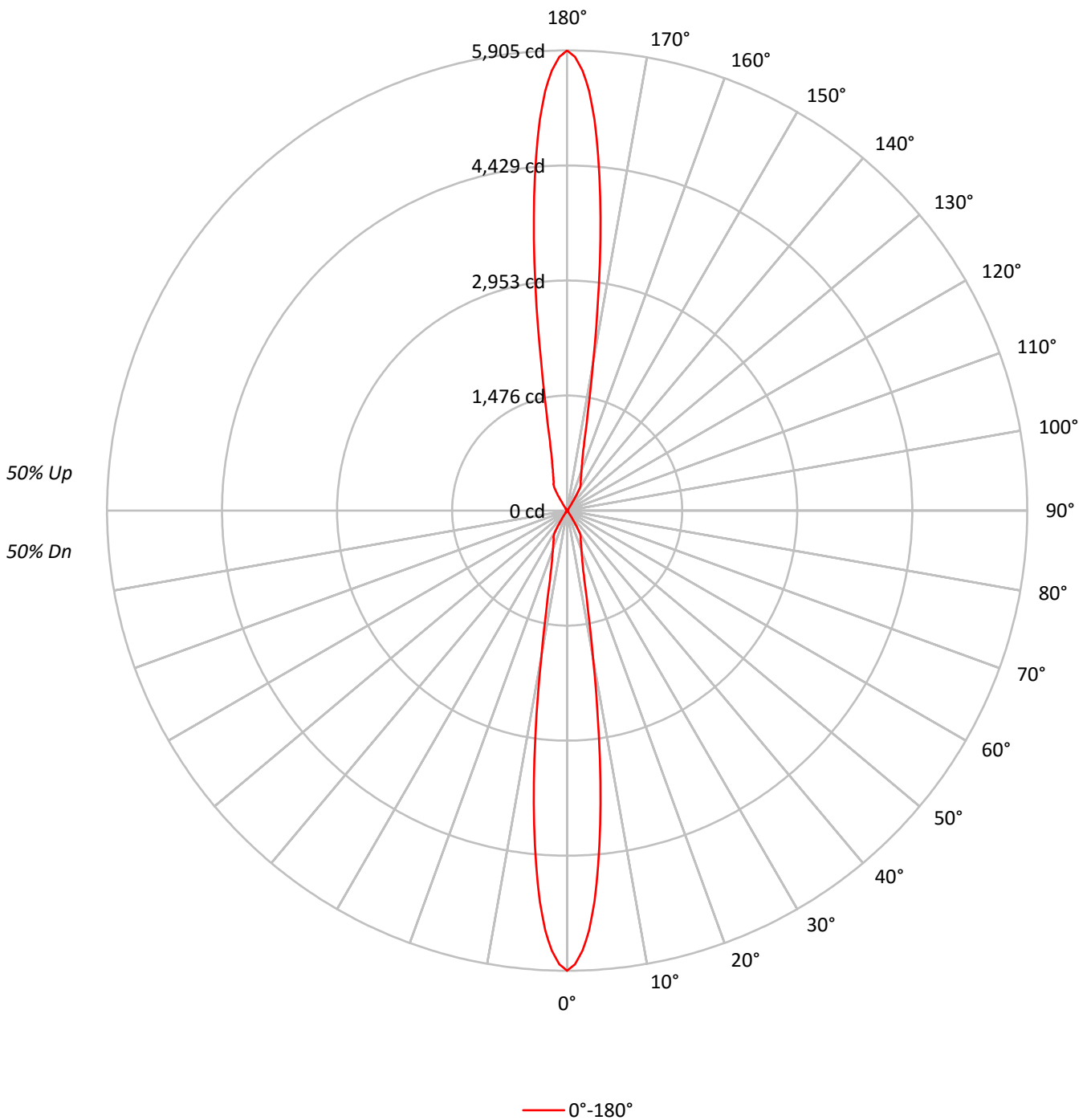
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	92	93	90	88	86	77	75	74	65	64	63	54	53	53	48
2	94	89	85	81	87	83	79	76	72	69	67	61	60	58	52	51	50	46
3	89	82	77	72	83	77	72	69	67	64	61	58	56	54	50	48	47	44
4	84	76	70	66	78	72	67	63	63	60	57	55	53	51	48	46	45	42
5	79	71	65	61	74	67	62	58	60	56	53	53	50	48	46	45	43	41
6	75	67	61	56	71	63	58	54	57	53	50	50	48	46	45	43	42	39
7	72	63	57	53	67	60	54	51	54	50	47	48	46	44	43	42	40	38
8	68	59	54	50	65	57	52	48	51	48	45	47	44	42	42	40	39	37
9	66	56	51	47	62	54	49	46	49	46	43	45	42	40	41	39	38	36
10	63	54	48	45	59	52	47	43	47	44	41	43	41	39	40	38	36	35

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	728368
5°	566004
10°	239851
15°	102541
20°	70028
25°	55800
30°	41717
35°	5526
40°	2947
45°	2146
50°	2303
55°	2516
60°	2788
65°	3210
70°	3715
75°	4432
80°	5185
85°	5236



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.9	19.6
10°-20°	247.2	14.0
20°-30°	190.8	10.8
30°-40°	52.9	3.0
40°-50°	10.2	0.6
50°-60°	10.5	0.6
60°-70°	10.9	0.6
70°-80°	9.7	0.6
80°-90°	4.1	0.2
90°-100°	4.1	0.2
100°-110°	9.7	0.6
110°-120°	10.9	0.6
120°-130°	10.5	0.6
130°-140°	10.2	0.6
140°-150°	52.9	3.0
150°-160°	190.8	10.8
160°-170°	247.2	14.0
170°-180°	344.9	19.6
0°-30°	782.9	44.4
0°-40°	835.8	47.4
0°-60°	856.5	48.6
0°-90°	881.2	50.0
90°-120°	24.7	1.4
90°-150°	98.3	5.6
90°-180°	881.0	50.0
0°-180°	1762.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5905	
5°	4571	345
15°	803	247
25°	410	191
35°	37	53
45°	12	10
55°	12	10
65°	11	11
75°	9	10
85°	4	4
90°	0	0
95°	4	4
105°	9	10
115°	11	11
125°	12	10
135°	12	10
145°	37	53
155°	410	191
165°	803	247
175°	4571	345
180°	5905	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5905.1
1°	5822.4
2°	5650.9
3°	5390.3
4°	5028.0
5°	4571.3
6°	4055.5
7°	3511.0
8°	2921.5
9°	2387.1
10°	1915.0
11°	1543.0
12°	1260.8
13°	1056.6
14°	912.1
15°	803.0
16°	722.0
17°	661.2
18°	613.5
19°	571.8
20°	533.5
22.5°	462.1
25°	410.0
26°	396.7
27°	385.3
28°	371.7
29°	342.0
30°	292.9
32.5°	140.8
35°	36.7
37.5°	23.7
40°	18.3
42.5°	13.7
45°	12.3
47.5°	12.0
50°	12.0
52.5°	11.7
55°	11.7
57.5°	11.7
60°	11.3
62.5°	11.3
65°	11.0
67.5°	10.7
70°	10.3
72.5°	10.0

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CANDELA DISTRIBUTION (continued):

	0°
75°	9.3
77.5°	8.7
80°	7.3
82.5°	6.0
85°	3.7
87.5°	1.7
90°	0.0
92.5°	1.7
95°	3.7
97.5°	6.0
100°	7.3
102.5°	8.7
105°	9.3
107.5°	10.0
110°	10.3
112.5°	10.7
115°	11.0
117.5°	11.3
120°	11.3
122.5°	11.7
125°	11.7
127.5°	11.7
130°	12.0
132.5°	12.0
135°	12.3
137.5°	13.7
140°	18.3
142.5°	23.7
145°	36.7
147.5°	140.8
150°	292.9
151°	342.0
152°	371.7
153°	385.3
154°	396.7
155°	410.0
157.5°	462.1
160°	533.5
161°	571.8
162°	613.5
163°	661.2
164°	722.0
165°	803.0
166°	912.1
167°	1056.6



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CANDELA DISTRIBUTION (continued):

	0°
168°	1260.8
169°	1543.0
170°	1915.0
171°	2387.1
172°	2921.5
173°	3511.0
174°	4055.5
175°	4571.3
176°	5028.0
177°	5390.3
178°	5650.9
179°	5822.4
180°	5905.1

(END OF REPORT)