

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: P221778

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221778
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29488)
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-M-WT-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, MEDIUM FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 3000K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1766.8 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

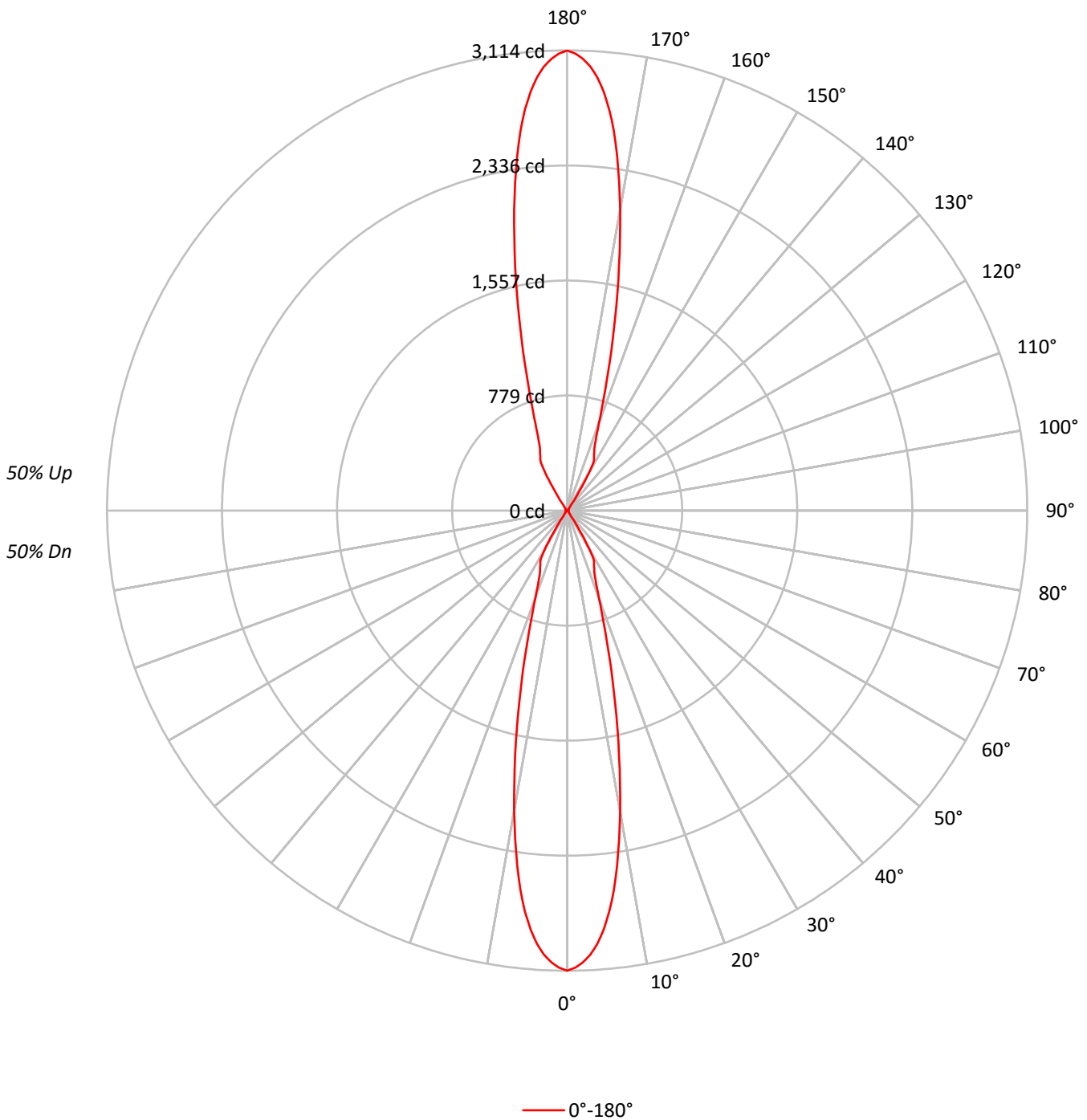
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	85	77	75	74	65	64	63	54	53	52	47
2	94	89	84	80	87	83	79	75	71	69	66	61	59	58	51	50	49	45
3	88	81	76	72	82	76	72	68	67	63	61	57	55	53	49	48	47	43
4	83	75	69	65	78	71	66	62	62	59	56	54	52	50	47	46	44	41
5	79	70	64	59	73	66	61	57	59	55	52	52	49	47	45	44	42	39
6	75	65	59	55	70	62	57	53	55	51	48	49	46	44	44	42	40	38
7	71	61	55	51	66	58	53	49	53	49	46	47	44	42	42	40	39	36
8	67	58	52	48	63	55	50	46	50	46	43	45	42	40	41	39	37	35
9	64	55	49	45	60	52	47	44	48	44	41	43	40	38	39	37	36	34
10	61	52	46	43	58	50	45	41	46	42	39	42	39	37	38	36	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	384061
5°	352197
10°	258450
15°	151372
20°	82590
25°	58848
30°	43526
35°	6279
40°	3446
45°	2442
50°	2495
55°	2581
60°	2886
65°	3210
70°	3715
75°	4623
80°	5469
85°	5236



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.2	13.9
10°-20°	329.6	18.7
20°-30°	203.5	11.5
30°-40°	56.7	3.2
40°-50°	11.5	0.6
50°-60°	10.9	0.6
60°-70°	11.0	0.6
70°-80°	9.9	0.6
80°-90°	4.1	0.2
90°-100°	4.1	0.2
100°-110°	9.9	0.6
110°-120°	11.0	0.6
120°-130°	10.9	0.6
130°-140°	11.5	0.6
140°-150°	56.7	3.2
150°-160°	203.5	11.5
160°-170°	329.6	18.7
170°-180°	246.2	13.9
0°-30°	779.3	44.1
0°-40°	836.0	47.3
0°-60°	858.3	48.6
0°-90°	883.4	50.0
90°-120°	25.0	1.4
90°-150°	104.1	5.9
90°-180°	883.0	50.0
0°-180°	1766.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3114	
5°	2844	246
15°	1185	330
25°	432	203
35°	42	57
45°	14	11
55°	12	11
65°	11	11
75°	10	10
85°	4	4
90°	0	0
95°	4	4
105°	10	10
115°	11	11
125°	12	11
135°	14	11
145°	42	57
155°	432	203
165°	1185	330
175°	2844	246
180°	3114	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3113.7
1°	3094.3
2°	3058.6
3°	3007.9
4°	2938.2
5°	2844.5
6°	2728.4
7°	2590.2
8°	2425.4
9°	2248.3
10°	2063.5
11°	1875.3
12°	1689.5
13°	1508.3
14°	1340.2
15°	1185.4
16°	1042.9
17°	915.1
18°	803.0
19°	707.3
20°	629.2
21°	564.8
22°	516.4
23°	479.7
24°	452.4
25°	432.4
26°	416.0
27°	401.7
28°	388.0
29°	357.3
30°	305.6
32.5°	148.1
35°	41.7
37.5°	28.7
40°	21.4
42.5°	15.0
45°	14.0
47.5°	13.3
50°	13.0
52.5°	12.3
55°	12.0
57.5°	12.0
60°	11.7
62.5°	11.7
65°	11.0



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	10.7
70°	10.3
72.5°	10.0
75°	9.7
77.5°	8.7
80°	7.7
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°	7.7
102.5°	8.7
105°	9.7
107.5°	10.0
110°	10.3
112.5°	10.7
115°	11.0
117.5°	11.7
120°	11.7
122.5°	12.0
125°	12.0
127.5°	12.3
130°	13.0
132.5°	13.3
135°	14.0
137.5°	15.0
140°	21.4
142.5°	28.7
145°	41.7
147.5°	148.1
150°	305.6
151°	357.3
152°	388.0
153°	401.7
154°	416.0
155°	432.4
156°	452.4
157°	479.7
158°	516.4
159°	564.8
160°	629.2
161°	707.3



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CANDELA DISTRIBUTION (continued):

	0°
162°	803.0
163°	915.1
164°	1042.9
165°	1185.4
166°	1340.2
167°	1508.3
168°	1689.5
169°	1875.3
170°	2063.5
171°	2248.3
172°	2425.4
173°	2590.2
174°	2728.4
175°	2844.5
176°	2938.2
177°	3007.9
178°	3058.6
179°	3094.3
180°	3113.7

(END OF REPORT)