

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: P221772

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221772
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29489)
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-F-WT-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 3000K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1800.8 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.57
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

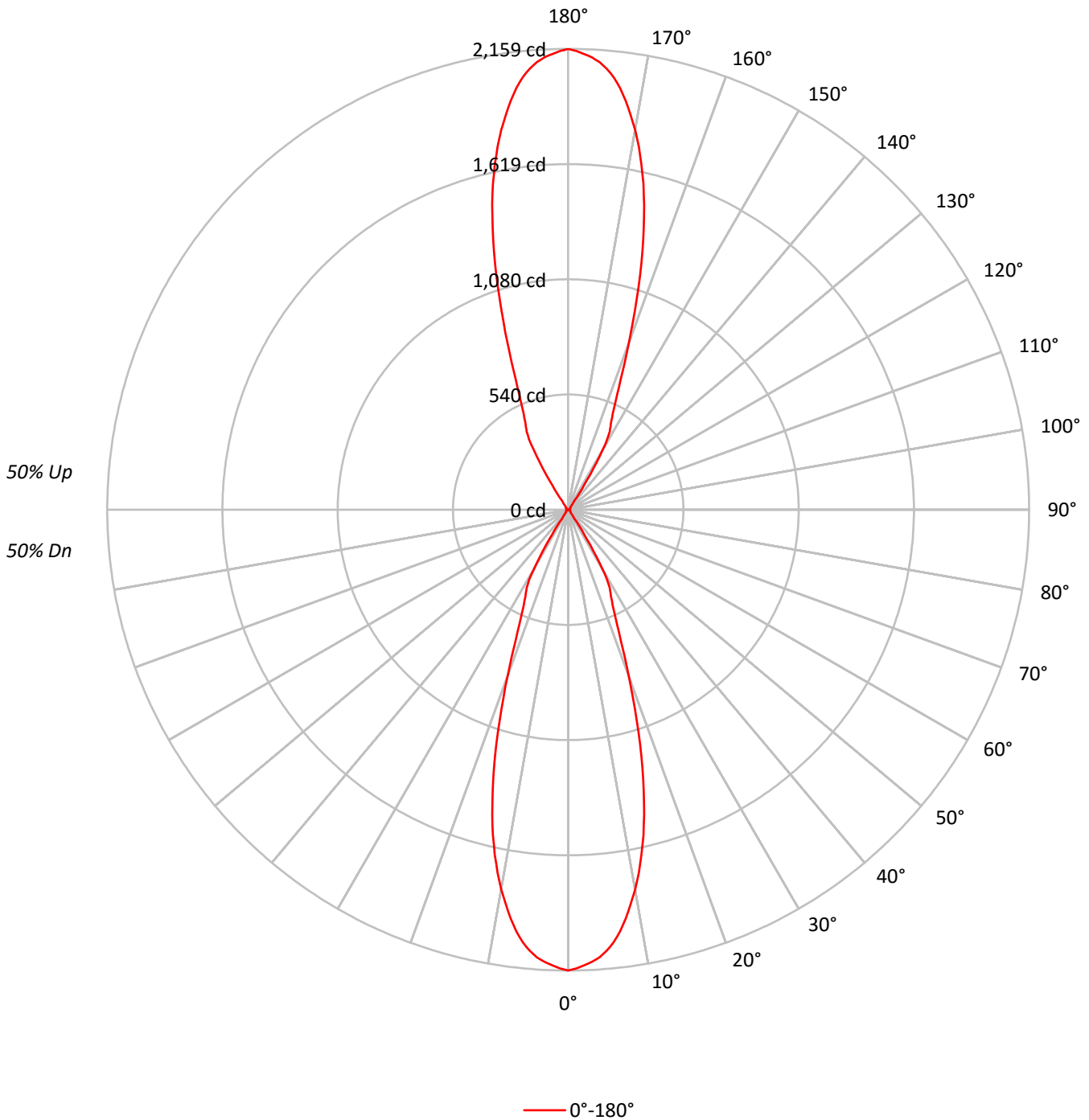
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	84	80	87	82	78	75	71	68	66	61	59	57	51	50	49	45
3	88	81	76	71	82	76	71	67	66	63	60	57	55	53	49	47	46	42
4	83	75	69	64	77	70	65	61	62	58	55	54	51	49	47	45	44	40
5	78	69	63	59	73	65	60	56	58	54	51	51	48	46	45	43	41	39
6	74	65	58	54	69	61	56	52	55	51	48	49	46	43	43	41	39	37
7	70	60	54	50	66	57	52	48	52	48	45	46	43	41	41	39	38	35
8	66	57	51	47	62	54	49	45	49	45	42	44	41	39	39	37	36	34
9	63	54	48	44	60	51	46	42	46	42	40	42	39	37	38	36	34	33
10	60	51	45	41	57	48	43	40	44	40	38	40	37	35	37	34	33	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	266291
5°	256771
10°	226098
15°	174587
20°	109000
25°	67109
30°	45990
35°	7228
40°	3285
45°	2215
50°	2303
55°	2516
60°	2788
65°	3123
70°	3606
75°	4432
80°	5185
85°	5236



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.3	10.5
10°-20°	367.1	20.4
20°-30°	237.7	13.2
30°-40°	61.2	3.4
40°-50°	10.4	0.6
50°-60°	10.5	0.6
60°-70°	10.6	0.6
70°-80°	9.5	0.5
80°-90°	4.0	0.2
90°-100°	4.0	0.2
100°-110°	9.5	0.5
110°-120°	10.6	0.6
120°-130°	10.5	0.6
130°-140°	10.4	0.6
140°-150°	61.2	3.4
150°-160°	237.7	13.2
160°-170°	367.1	20.4
170°-180°	189.3	10.5
0°-30°	794.2	44.1
0°-40°	855.3	47.5
0°-60°	876.3	48.7
0°-90°	900.4	50.0
90°-120°	24.1	1.3
90°-150°	106.2	5.9
90°-180°	900.0	50.0
0°-180°	1800.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2159	
5°	2074	189
15°	1367	367
25°	493	238
35°	48	61
45°	13	10
55°	12	11
65°	11	11
75°	9	9
85°	4	4
90°	0	0
95°	4	4
105°	9	9
115°	11	11
125°	12	11
135°	13	10
145°	48	61
155°	493	238
165°	1367	367
175°	2074	189
180°	2159	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2158.9
1°	2149.2
2°	2136.5
3°	2121.5
4°	2102.2
5°	2073.8
6°	2037.8
7°	1990.7
8°	1934.3
9°	1871.6
10°	1805.2
11°	1732.5
12°	1652.4
13°	1565.7
14°	1470.6
15°	1367.2
16°	1260.4
17°	1150.7
18°	1040.6
19°	932.1
20°	830.4
21°	737.3
22°	656.2
23°	587.8
24°	534.1
25°	493.1
26°	460.7
27°	435.7
28°	414.7
29°	378.0
30°	322.9
32.5°	161.5
35°	48.0
37.5°	30.7
40°	20.4
42.5°	13.0
45°	12.7
47.5°	12.3
50°	12.0
52.5°	12.0
55°	11.7
57.5°	11.7
60°	11.3
62.5°	11.0
65°	10.7



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	10.3
70°	10.0
72.5°	9.7
75°	9.3
77.5°	8.3
80°	7.3
82.5°	5.7
85°	3.7
87.5°	1.7
90°	0.0
92.5°	1.7
95°	3.7
97.5°	5.7
100°	7.3
102.5°	8.3
105°	9.3
107.5°	9.7
110°	10.0
112.5°	10.3
115°	10.7
117.5°	11.0
120°	11.3
122.5°	11.7
125°	11.7
127.5°	12.0
130°	12.0
132.5°	12.3
135°	12.7
137.5°	13.0
140°	20.4
142.5°	30.7
145°	48.0
147.5°	161.5
150°	322.9
151°	378.0
152°	414.7
153°	435.7
154°	460.7
155°	493.1
156°	534.1
157°	587.8
158°	656.2
159°	737.3
160°	830.4
161°	932.1



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CANDELA DISTRIBUTION (continued):

	0°
162°	1040.6
163°	1150.7
164°	1260.4
165°	1367.2
166°	1470.6
167°	1565.7
168°	1652.4
169°	1732.5
170°	1805.2
171°	1871.6
172°	1934.3
173°	1990.7
174°	2037.8
175°	2073.8
176°	2102.2
177°	2121.5
178°	2136.5
179°	2149.2
180°	2158.9

(END OF REPORT)