

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: P221892

Luminaire Tested: **9004-W2-[RW, RI]-LED4097-F-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221892
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]-LED4097-F-WT-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 4000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1789.2 lumens
Efficiency: N/A
Efficacy: 90.8 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

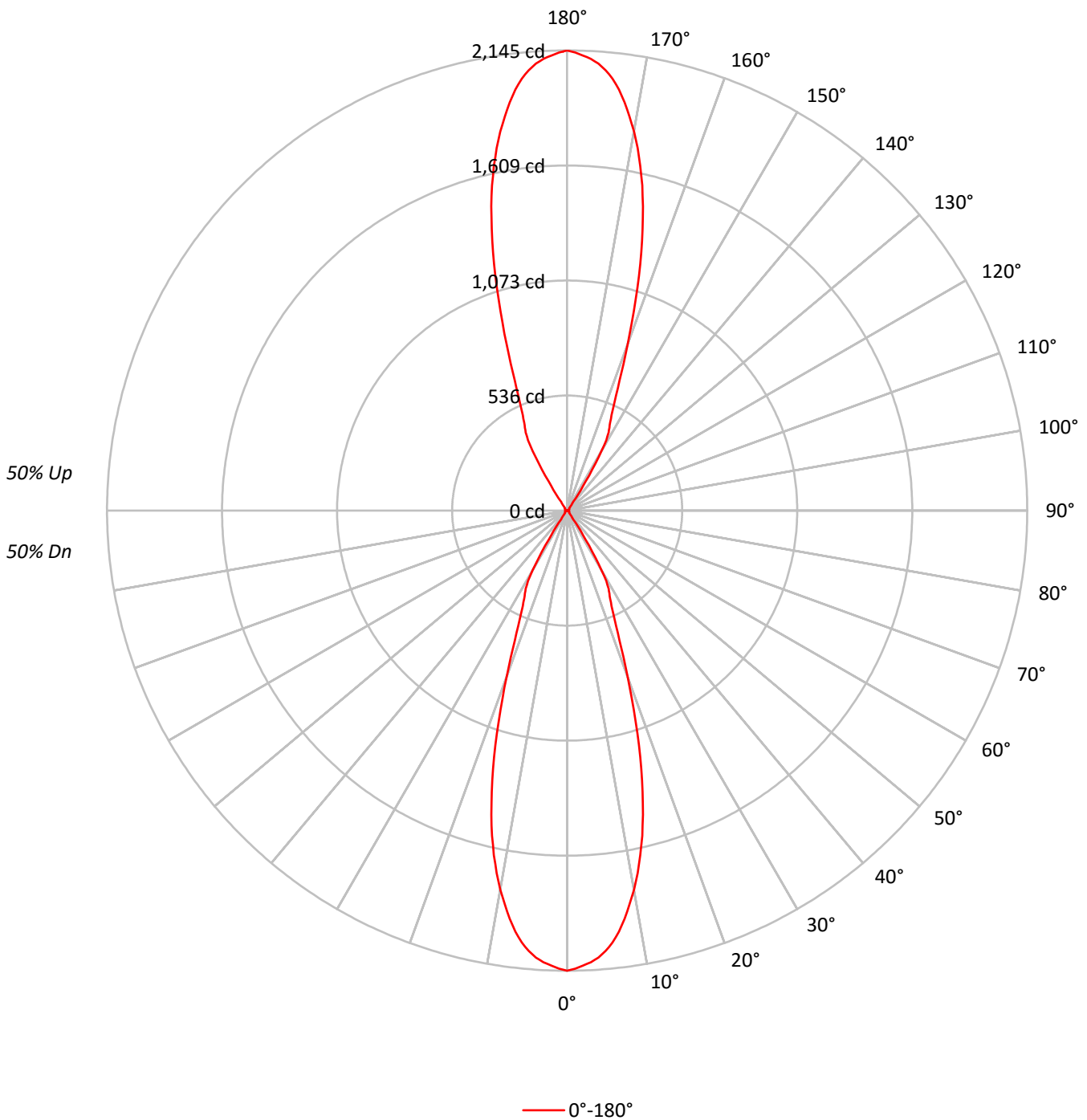
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	264564
5°	255112
10°	224646
15°	173451
20°	108291
25°	66674
30°	45705
35°	7183
40°	3253
45°	2198
50°	2284
55°	2495
60°	2788
65°	3094
70°	3570
75°	4432
80°	5185
85°	5095



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.1	10.5
10°-20°	364.7	20.4
20°-30°	236.2	13.2
30°-40°	60.8	3.4
40°-50°	10.4	0.6
50°-60°	10.5	0.6
60°-70°	10.5	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°	10.5	0.6
120°-130°	10.5	0.6
130°-140°	10.4	0.6
140°-150°	60.8	3.4
150°-160°	236.2	13.2
160°-170°	364.7	20.4
170°-180°	188.1	10.5
0°-30°	789.1	44.1
0°-40°	849.8	47.5
0°-60°	870.6	48.7
0°-90°	894.6	50.0
90°-120°	23.9	1.3
90°-150°	105.5	5.9
90°-180°	895.0	50.0
0°-180°	1789.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2145	
5°	2060	188
15°	1358	365
25°	490	236
35°	48	61
45°	13	10
55°	12	10
65°	11	11
75°	9	9
85°	4	4
90°	0	0
95°	4	4
105°	9	9
115°	11	11
125°	12	10
135°	13	10
145°	48	61
155°	490	236
165°	1358	365
175°	2060	188
180°	2145	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2144.9
1°	2135.3
2°	2122.7
3°	2107.8
4°	2088.6
5°	2060.4
6°	2024.6
7°	1977.9
8°	1921.8
9°	1859.5
10°	1793.6
11°	1721.3
12°	1641.8
13°	1555.6
14°	1461.1
15°	1358.3
16°	1252.3
17°	1143.2
18°	1033.8
19°	926.1
20°	825.0
21°	732.5
22°	652.0
23°	584.0
24°	530.7
25°	489.9
26°	457.8
27°	432.9
28°	412.0
29°	375.6
30°	320.9
32.5°	160.4
35°	47.7
37.5°	30.5
40°	20.2
42.5°	12.9
45°	12.6
47.5°	12.3
50°	11.9
52.5°	11.9
55°	11.6
57.5°	11.6
60°	11.3
62.5°	10.9
65°	10.6



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	10.3
70°	9.9
72.5°	9.6
75°	9.3
77.5°	8.3
80°	7.3
82.5°	5.6
85°	3.6
87.5°	1.7
90°	0.0
92.5°	1.7
95°	3.6
97.5°	5.6
100°	7.3
102.5°	8.3
105°	9.3
107.5°	9.6
110°	9.9
112.5°	10.3
115°	10.6
117.5°	10.9
120°	11.3
122.5°	11.6
125°	11.6
127.5°	11.9
130°	11.9
132.5°	12.3
135°	12.6
137.5°	12.9
140°	20.2
142.5°	30.5
145°	47.7
147.5°	160.4
150°	320.9
151°	375.6
152°	412.0
153°	432.9
154°	457.8
155°	489.9
156°	530.7
157°	584.0
158°	652.0
159°	732.5
160°	825.0
161°	926.1



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CANDELA DISTRIBUTION (continued):

	0°
162°	1033.8
163°	1143.2
164°	1252.3
165°	1358.3
166°	1461.1
167°	1555.6
168°	1641.8
169°	1721.3
170°	1793.6
171°	1859.5
172°	1921.8
173°	1977.9
174°	2024.6
175°	2060.4
176°	2088.6
177°	2107.8
178°	2122.7
179°	2135.3
180°	2144.9

(END OF REPORT)