

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: P221889

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221889
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29493)
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-BK-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 4000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1665.0 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.56
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

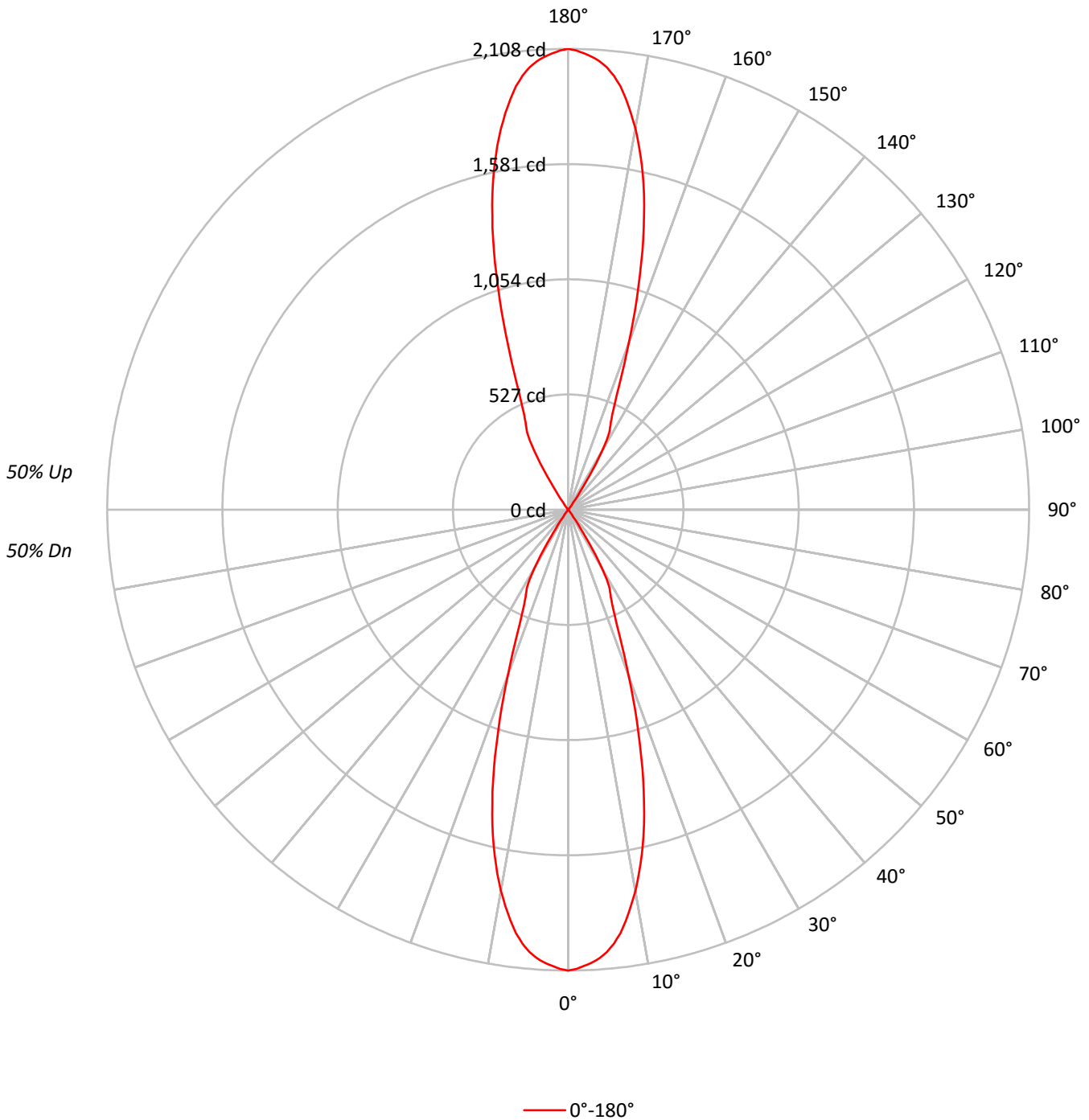
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	95	92	93	90	88	86	77	76	74		65	64	63		54	53	53	48
2	95	89	85	81	88	83	79	76	72	69	67		61	60	58		52	51	50	46
3	89	82	77	73	83	77	72	69	67	64	61		58	56	54		50	49	47	44
4	84	76	70	66	78	71	66	63	63	59	57		55	53	51		48	46	45	42
5	79	71	65	60	74	67	61	58	59	55	53		52	50	48		46	44	43	40
6	75	66	60	55	70	62	57	53	56	52	49		50	47	45		44	42	41	38
7	71	62	56	52	67	59	53	50	53	49	46		48	45	43		42	41	39	37
8	68	58	52	48	64	55	50	47	50	46	44		45	43	40		41	39	37	35
9	64	55	49	45	61	52	47	44	48	44	41		43	41	39		39	37	36	34
10	61	52	46	43	58	50	45	41	46	42	39		42	39	37		38	36	35	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	260062
5°	251460
10°	221740
15°	170705
20°	105902
25°	64782
30°	44095
35°	5842
40°	1658
45°	401
50°	326
55°	215
60°	173
65°	204
70°	108
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.5	11.1
10°-20°	358.6	21.5
20°-30°	229.9	13.8
30°-40°	54.2	3.3
40°-50°	2.6	0.2
50°-60°	1.0	0.1
60°-70°	0.5	0.0
70°-80°	0.1	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.2	0.0
110°-120°	0.5	0.0
120°-130°	1.0	0.1
130°-140°	2.6	0.2
140°-150°	54.2	3.3
150°-160°	229.9	13.8
160°-170°	358.6	21.5
170°-180°	185.5	11.1
0°-30°	774.1	46.5
0°-40°	828.3	49.7
0°-60°	831.8	50.0
0°-90°	832.5	50.0
90°-120°	0.7	0.0
90°-150°	58.5	3.5
90°-180°	833.0	50.0
0°-180°	1665.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2108	
5°	2031	186
15°	1337	359
25°	476	230
35°	39	54
45°	2	3
55°	1	1
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	1	1
125°	1	1
135°	2	3
145°	39	54
155°	476	230
165°	1337	359
175°	2031	186
180°	2108	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2108.4
1°	2100.8
2°	2088.6
3°	2074.6
4°	2056.4
5°	2030.9
6°	1996.7
7°	1953.3
8°	1897.0
9°	1835.7
10°	1770.4
11°	1696.4
12°	1617.2
13°	1531.4
14°	1436.2
15°	1336.8
16°	1231.4
17°	1122.3
18°	1013.6
19°	908.2
20°	806.8
21°	716.6
22°	636.1
23°	568.5
24°	517.1
25°	476.0
26°	445.2
27°	421.3
28°	400.1
29°	363.9
30°	309.6
32.5°	147.8
35°	38.8
37.5°	20.6
40°	10.3
42.5°	3.3
45°	2.3
47.5°	2.0
50°	1.7
52.5°	1.3
55°	1.0
57.5°	1.0
60°	0.7
62.5°	0.7
65°	0.7



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.3
70°	0.3
72.5°	0.3
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.0
105°	0.0
107.5°	0.3
110°	0.3
112.5°	0.3
115°	0.7
117.5°	0.7
120°	0.7
122.5°	1.0
125°	1.0
127.5°	1.3
130°	1.7
132.5°	2.0
135°	2.3
137.5°	3.3
140°	10.3
142.5°	20.6
145°	38.8
147.5°	147.8
150°	309.6
151°	363.9
152°	400.1
153°	421.3
154°	445.2
155°	476.0
156°	517.1
157°	568.5
158°	636.1
159°	716.6
160°	806.8
161°	908.2



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CANDELA DISTRIBUTION (continued):

	0°
162°	1013.6
163°	1122.3
164°	1231.4
165°	1336.8
166°	1436.2
167°	1531.4
168°	1617.2
169°	1696.4
170°	1770.4
171°	1835.7
172°	1897.0
173°	1953.3
174°	1996.7
175°	2030.9
176°	2056.4
177°	2074.6
178°	2088.6
179°	2100.8
180°	2108.4

(END OF REPORT)