

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: P222051

Luminaire Tested: **9004-W2-FL-LED3097-W-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222051
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29499)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9004-W2-FL-LED3097-W-BK-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, WIDE FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1646.6 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

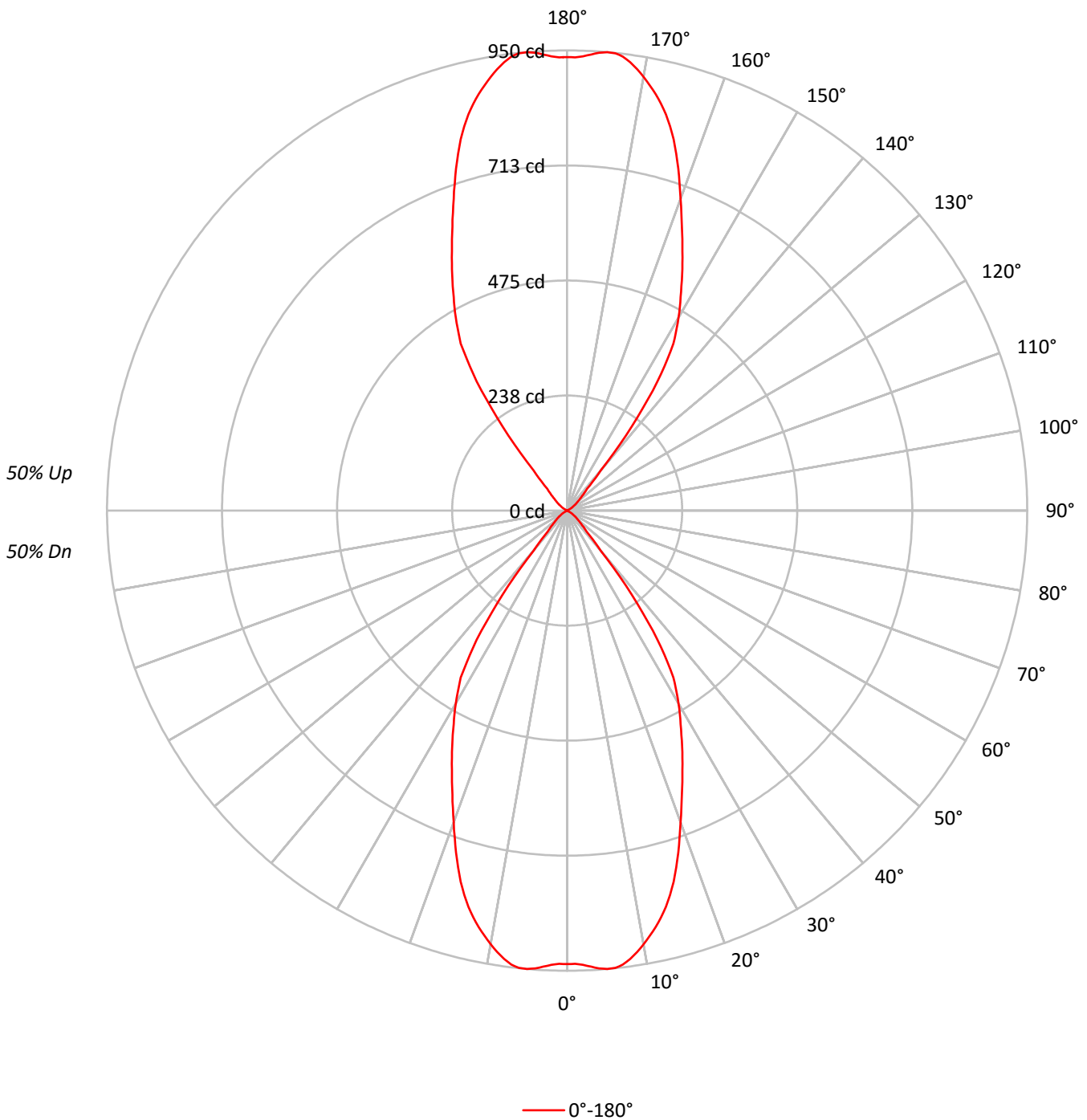
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	92	90	87	85	76	75	73		64	63	62		53	53	52	47
2	93	88	83	79	86	81	77	74	70	67	65		60	58	56		50	49	48	43
3	87	80	74	69	81	74	69	65	65	61	58		56	53	51		47	46	44	40
4	81	73	66	61	76	68	63	58	60	56	52		52	49	47		44	42	41	38
5	76	67	60	55	71	63	57	53	55	51	48		48	45	43		42	40	38	35
6	71	61	55	50	66	58	52	48	51	47	43		45	42	39		39	37	35	33
7	67	57	50	45	62	54	48	43	48	43	40		42	39	36		37	35	33	31
8	63	52	46	41	59	50	44	40	45	40	37		40	36	34		35	33	31	29
9	59	49	42	38	56	46	41	37	42	37	34		37	34	31		33	31	29	27
10	56	46	39	35	52	43	38	34	39	35	32		35	32	29		31	29	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	115489
5°	117638
10°	113901
15°	104903
20°	89901
25°	76663
30°	65559
35°	49013
40°	17390
45°	8129
50°	5373
55°	3613
60°	1826
65°	438
70°	325
75°	286
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.4	5.4
10°-20°	226.7	13.8
20°-30°	258.8	15.7
30°-40°	190.0	11.5
40°-50°	40.3	2.4
50°-60°	15.2	0.9
60°-70°	2.2	0.1
70°-80°	0.6	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.6	0.0
110°-120°	2.2	0.1
120°-130°	15.2	0.9
130°-140°	40.3	2.4
140°-150°	190.0	11.5
150°-160°	258.8	15.7
160°-170°	226.7	13.8
170°-180°	89.4	5.4
0°-30°	575.0	34.9
0°-40°	765.0	46.5
0°-60°	820.5	49.8
0°-90°	823.3	50.0
90°-120°	2.8	0.2
90°-150°	248.4	15.1
90°-180°	823.0	50.0
0°-180°	1646.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	936	
5°	950	89
15°	822	227
25°	563	259
35°	326	190
45°	47	40
55°	17	15
65°	2	2
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	2	2
125°	17	15
135°	47	40
145°	326	190
155°	563	259
165°	822	227
175°	950	89
180°	936	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	936.3
1°	936.0
2°	938.3
3°	943.0
4°	947.5
5°	950.1
6°	949.5
7°	944.5
8°	934.8
9°	922.7
10°	909.4
11°	894.4
12°	879.0
13°	861.6
14°	842.7
15°	821.5
16°	797.3
17°	770.4
18°	742.7
19°	713.5
20°	684.9
21°	658.3
22°	632.6
23°	608.4
24°	585.4
25°	563.3
26°	541.7
27°	519.9
28°	499.0
29°	479.5
30°	460.3
32.5°	408.7
35°	325.5
37.5°	219.8
40°	108.0
42.5°	60.8
45°	46.6
47.5°	36.6
50°	28.0
52.5°	22.1
55°	16.8
57.5°	12.1
60°	7.4
62.5°	2.1
65°	1.5



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	1.2
70°	0.9
72.5°	0.9
75°	0.6
77.5°	0.3
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°	0.3
105°	0.6
107.5°	0.9
110°	0.9
112.5°	1.2
115°	1.5
117.5°	2.1
120°	7.4
122.5°	12.1
125°	16.8
127.5°	22.1
130°	28.0
132.5°	36.6
135°	46.6
137.5°	60.8
140°	108.0
142.5°	219.8
145°	325.5
147.5°	408.7
150°	460.3
151°	479.5
152°	499.0
153°	519.9
154°	541.7
155°	563.3
156°	585.4
157°	608.4
158°	632.6
159°	658.3
160°	684.9
161°	713.5



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CANDELA DISTRIBUTION (continued):

	0°
162°	742.7
163°	770.4
164°	797.3
165°	821.5
166°	842.7
167°	861.6
168°	879.0
169°	894.4
170°	909.4
171°	922.7
172°	934.8
173°	944.5
174°	949.5
175°	950.1
176°	947.5
177°	943.0
178°	938.3
179°	936.0
180°	936.3

(END OF REPORT)