

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: P222039

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222039
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29497)
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-M-BK-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, MEDIUM FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1667.9 lumens
Efficiency: N/A
Efficacy: 84.7 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

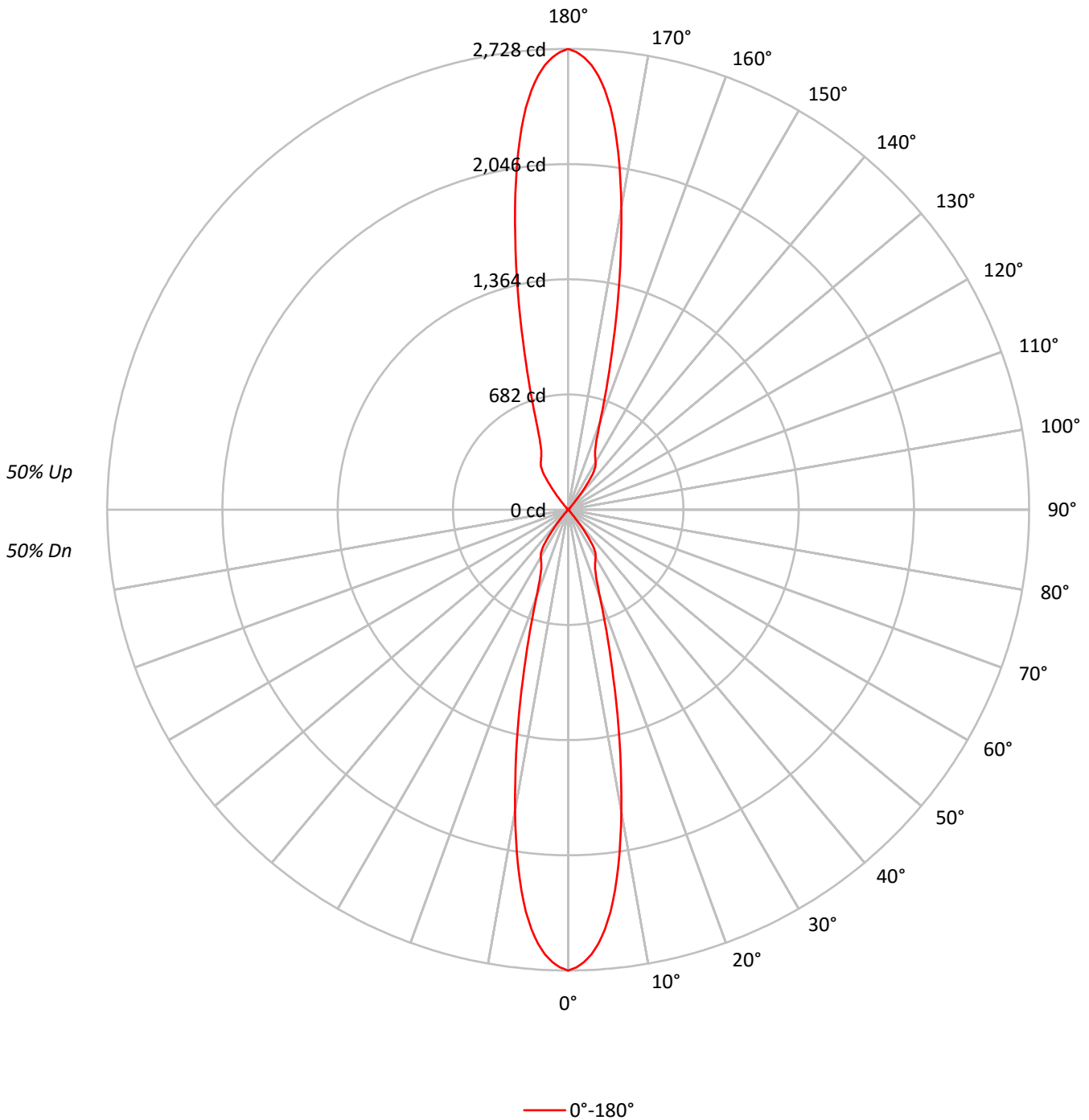
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	94	92	93	90	88	86	77	76	74		65	64	63		54	53	53	48
2	94	89	84	81	87	83	79	76	72	69	67		61	59	58		52	51	50	45
3	89	82	76	72	82	76	72	68	67	63	61		58	56	54		49	48	47	43
4	83	75	69	65	78	71	66	62	62	59	56		55	52	50		47	46	44	41
5	79	70	64	59	73	66	61	57	59	55	52		52	49	47		45	43	42	39
6	74	65	59	55	70	62	56	52	55	51	48		49	46	44		43	41	40	38
7	70	61	55	51	66	58	53	49	52	48	45		47	44	42		42	40	38	36
8	67	57	51	47	63	55	49	46	49	45	42		45	42	39		40	38	36	34
9	64	54	48	44	60	52	46	43	47	43	40		43	40	38		38	36	35	33
10	61	51	45	42	57	49	44	40	45	41	38		41	38	36		37	35	33	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	336549
5°	308824
10°	226913
15°	132102
20°	72036
25°	51200
30°	46146
35°	36349
40°	8083
45°	2215
50°	729
55°	452
60°	296
65°	175
70°	108
75°	143
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.1	13.0
10°-20°	288.4	17.3
20°-30°	180.3	10.8
30°-40°	133.8	8.0
40°-50°	12.5	0.7
50°-60°	2.0	0.1
60°-70°	0.7	0.0
70°-80°	0.3	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.3	0.0
110°-120°	0.7	0.0
120°-130°	2.0	0.1
130°-140°	12.5	0.7
140°-150°	133.8	8.0
150°-160°	180.3	10.8
160°-170°	288.4	17.3
170°-180°	216.1	13.0
0°-30°	684.7	41.1
0°-40°	818.5	49.1
0°-60°	833.0	49.9
0°-90°	834.0	50.0
90°-120°	1.0	0.1
90°-150°	149.2	8.9
90°-180°	834.0	50.0
0°-180°	1667.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2728	
5°	2494	216
15°	1034	288
25°	376	180
35°	241	134
45°	13	12
55°	2	2
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	1	1
125°	2	2
135°	13	12
145°	241	134
155°	376	180
165°	1034	288
175°	2494	216
180°	2728	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2728.5
1°	2710.5
2°	2679.8
3°	2635.6
4°	2574.8
5°	2494.2
6°	2394.2
7°	2273.5
8°	2132.8
9°	1975.8
10°	1811.7
11°	1643.8
12°	1481.2
13°	1322.8
14°	1172.3
15°	1034.5
16°	909.1
17°	799.6
18°	701.4
19°	618.2
20°	548.8
21°	493.9
22°	450.0
23°	417.5
24°	393.6
25°	376.2
26°	363.2
27°	352.0
28°	341.7
29°	332.8
30°	324.0
32.5°	299.5
35°	241.4
37.5°	146.1
40°	50.2
42.5°	17.4
45°	12.7
47.5°	9.1
50°	3.8
52.5°	3.0
55°	2.1
57.5°	1.5
60°	1.2
62.5°	0.9
65°	0.6



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.6
70°	0.3
72.5°	0.3
75°	0.3
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°	0.3
107.5°	0.3
110°	0.3
112.5°	0.6
115°	0.6
117.5°	0.9
120°	1.2
122.5°	1.5
125°	2.1
127.5°	3.0
130°	3.8
132.5°	9.1
135°	12.7
137.5°	17.4
140°	50.2
142.5°	146.1
145°	241.4
147.5°	299.5
150°	324.0
151°	332.8
152°	341.7
153°	352.0
154°	363.2
155°	376.2
156°	393.6
157°	417.5
158°	450.0
159°	493.9
160°	548.8
161°	618.2



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CANDELA DISTRIBUTION (continued):

	0°
162°	701.4
163°	799.6
164°	909.1
165°	1034.5
166°	1172.3
167°	1322.8
168°	1481.2
169°	1643.8
170°	1811.7
171°	1975.8
172°	2132.8
173°	2273.5
174°	2394.2
175°	2494.2
176°	2574.8
177°	2635.6
178°	2679.8
179°	2710.5
180°	2728.5

(END OF REPORT)