

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: P221805

Luminaire Tested: **9004-W2-[RW, RI]-LED3097-S-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221805
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29491)
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]-LED3097-S-BK-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, SPOT OPTIC, BLACK HOUSING.
Light Source: (1) 3000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1464.8 lumens
Efficiency: N/A
Efficacy: 74.4 lumens/watt
Spacing Criteria (0/90/45): 0.27 / 0.27 / 0.27
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

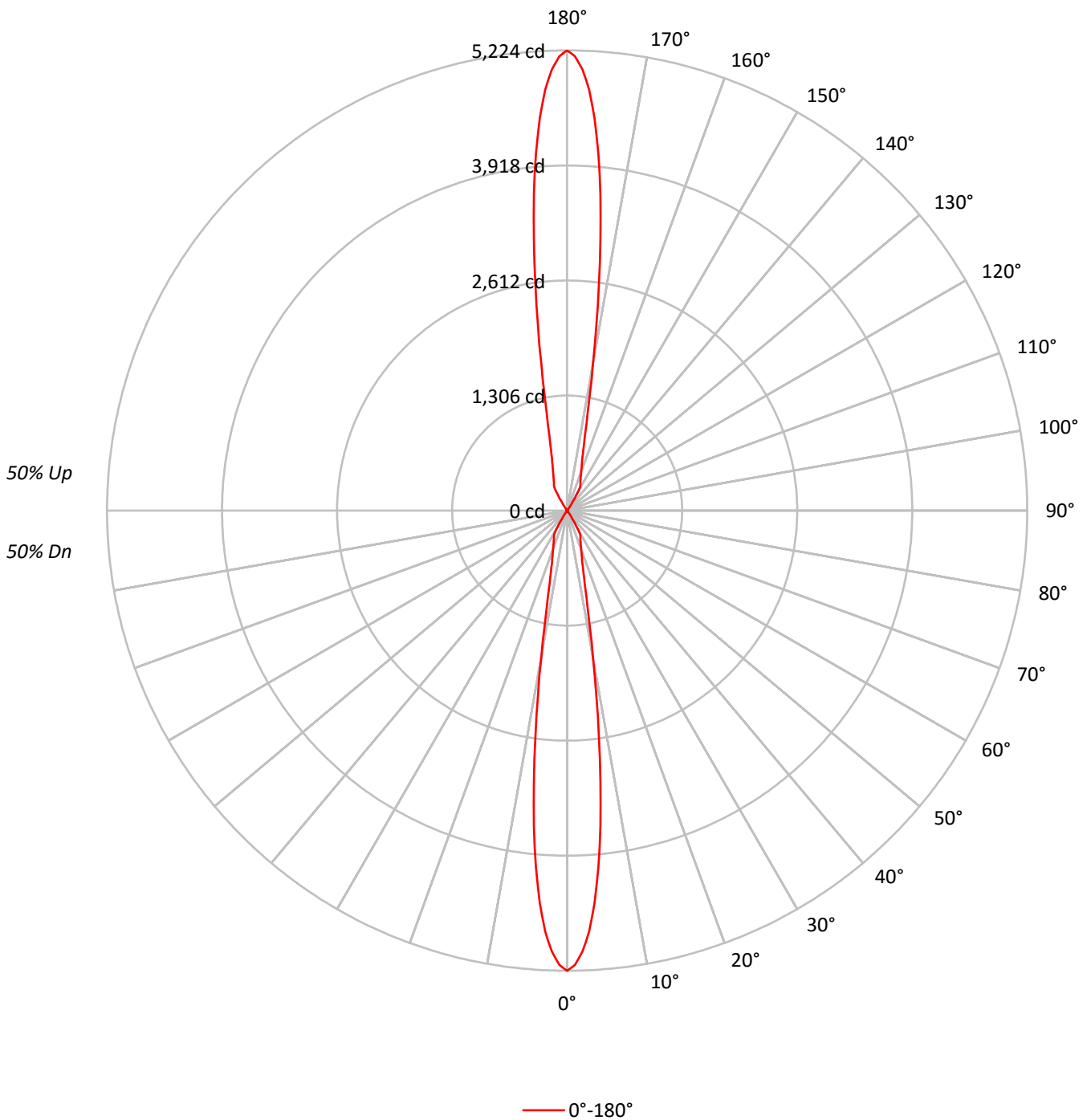
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	95	93	93	91	88	86	78	76	75		65	65	64		54	54	53	48
2	95	90	86	82	88	84	80	77	73	70	68		62	61	59		53	52	51	47
3	90	83	78	74	83	78	74	70	68	65	63		59	57	56		51	50	49	45
4	85	77	72	68	79	73	68	64	64	61	58		57	54	53		49	48	47	44
5	81	72	67	62	75	68	63	60	61	57	55		54	52	50		48	46	45	42
6	77	68	62	58	72	65	60	56	58	54	52		52	49	48		46	45	43	41
7	73	64	58	54	69	61	56	53	55	52	49		50	47	45		45	43	42	40
8	70	61	55	51	66	58	53	50	53	49	47		48	46	44		44	42	41	39
9	67	58	52	49	63	56	51	47	51	47	45		47	44	42		42	41	39	38
10	64	55	50	47	61	53	48	45	49	45	43		45	42	41		41	40	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	644382
5°	503439
10°	212058
15°	89860
20°	60853
25°	48314
30°	35763
35°	3237
40°	1192
45°	366
50°	288
55°	323
60°	222
65°	175
70°	108
75°	143
80°	213
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.1	20.9
10°-20°	216.3	14.8
20°-30°	165.1	11.3
30°-40°	40.5	2.8
40°-50°	2.2	0.1
50°-60°	1.2	0.1
60°-70°	0.6	0.0
70°-80°	0.3	0.0
80°-90°	0.1	0.0
90°-100°	0.2	0.0
100°-110°	0.3	0.0
110°-120°	0.6	0.0
120°-130°	1.2	0.1
130°-140°	2.2	0.1
140°-150°	40.5	2.8
150°-160°	165.1	11.3
160°-170°	216.3	14.8
170°-180°	306.1	20.9
0°-30°	687.5	46.9
0°-40°	728.0	49.7
0°-60°	731.4	49.9
0°-90°	732.4	50.0
90°-120°	1.1	0.1
90°-150°	45.0	3.1
90°-180°	732.0	50.0
0°-180°	1464.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5224	
5°	4066	306
15°	704	216
25°	355	165
35°	22	40
45°	2	2
55°	2	1
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	1	1
125°	2	1
135°	2	2
145°	22	40
155°	355	165
165°	704	216
175°	4066	306
180°	5224	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5224.2
1°	5157.2
2°	5009.7
3°	4783.4
4°	4466.4
5°	4066.0
6°	3605.7
7°	3100.0
8°	2590.7
9°	2124.5
10°	1693.1
11°	1351.4
12°	1101.2
13°	924.2
14°	798.2
15°	703.7
16°	631.2
17°	578.3
18°	536.4
19°	497.2
20°	463.6
22.5°	399.8
25°	355.0
26°	342.9
27°	332.8
28°	322.8
29°	296.2
30°	251.1
32.5°	113.0
35°	21.5
37.5°	11.8
40°	7.4
42.5°	3.2
45°	2.1
47.5°	1.8
50°	1.5
52.5°	1.5
55°	1.5
57.5°	1.2
60°	0.9
62.5°	0.9
65°	0.6
67.5°	0.3
70°	0.3
72.5°	0.3



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CANDELA DISTRIBUTION (continued):

	0°
75°	0.3
77.5°	0.3
80°	0.3
82.5°	0.3
85°	0.0
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.3
100°	0.3
102.5°	0.3
105°	0.3
107.5°	0.3
110°	0.3
112.5°	0.3
115°	0.6
117.5°	0.9
120°	0.9
122.5°	1.2
125°	1.5
127.5°	1.5
130°	1.5
132.5°	1.8
135°	2.1
137.5°	3.2
140°	7.4
142.5°	11.8
145°	21.5
147.5°	113.0
150°	251.1
151°	296.2
152°	322.8
153°	332.8
154°	342.9
155°	355.0
157.5°	399.8
160°	463.6
161°	497.2
162°	536.4
163°	578.3
164°	631.2
165°	703.7
166°	798.2
167°	924.2



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CANDELA DISTRIBUTION (continued):

	0°
168°	1101.2
169°	1351.4
170°	1693.1
171°	2124.5
172°	2590.7
173°	3100.0
174°	3605.7
175°	4066.0
176°	4466.4
177°	4783.4
178°	5009.7
179°	5157.2
180°	5224.2

(END OF REPORT)