

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: P222047

Luminaire Tested: **9004-W2-FL-LED3097-S-BK-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222047
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29496)
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-S-BK-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH 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: 3954.4 lumens
Efficiency: N/A
Efficacy: 69.1 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

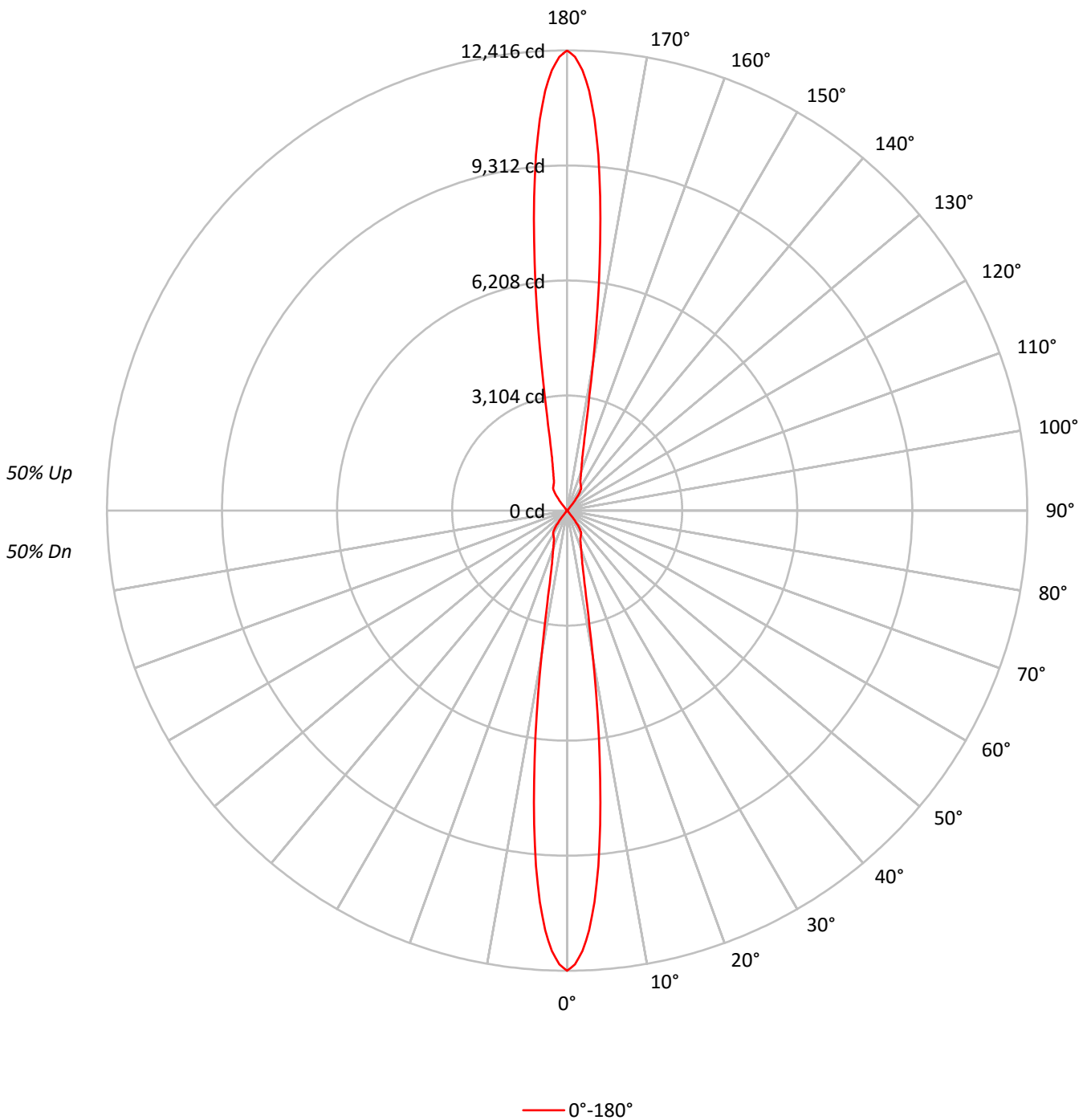
Input Watts (W): 57.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	92	93	90	88	86	77	76	74		65	64	63		54	54	53	48
2	95	89	85	81	88	83	80	76	72	69	67		62	60	58		52	51	50	46
3	89	82	77	73	83	77	72	69	67	64	62		58	56	54		50	49	48	44
4	84	76	70	66	78	72	67	63	63	60	57		55	53	51		48	46	45	42
5	79	71	65	60	74	67	62	58	59	56	53		53	50	48		46	44	43	40
6	75	66	60	56	70	63	58	54	56	52	49		50	47	45		44	43	41	39
7	71	62	56	52	67	59	54	50	53	49	47		48	45	43		43	41	40	37
8	68	59	53	49	64	56	51	47	51	47	44		46	43	41		41	39	38	36
9	65	56	50	46	61	53	48	45	48	45	42		44	41	39		40	38	37	35
10	62	53	47	44	59	51	46	42	46	43	40		42	40	38		39	37	35	34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1531422
5°	1192059
10°	496485
15°	209921
20°	144073
25°	114988
30°	106265
35°	86943
40°	18291
45°	4186
50°	1497
55°	1204
60°	691
65°	409
70°	252
75°	334
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	723.5	18.3
10°-20°	507.1	12.8
20°-30°	399.7	10.1
30°-40°	314.7	8.0
40°-50°	25.4	0.6
50°-60°	4.9	0.1
60°-70°	1.3	0.0
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°	1.3	0.0
120°-130°	4.9	0.1
130°-140°	25.4	0.6
140°-150°	314.7	8.0
150°-160°	399.7	10.1
160°-170°	507.1	12.8
170°-180°	723.5	18.3
0°-30°	1630.3	41.2
0°-40°	1944.9	49.2
0°-60°	1975.3	50.0
0°-90°	1977.2	50.0
90°-120°	1.9	0.0
90°-150°	346.9	8.8
90°-180°	1977.0	50.0
0°-180°	3954.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	12416	
5°	9628	724
15°	1644	507
25°	845	400
35°	577	315
45°	24	25
55°	6	5
65°	1	1
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	1	1
125°	6	5
135°	24	25
145°	577	315
155°	845	400
165°	1644	507
175°	9628	724
180°	12416	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	12415.7
1°	12244.9
2°	11889.8
3°	11339.3
4°	10586.2
5°	9627.6
6°	8520.9
7°	7325.2
8°	6152.1
9°	4971.2
10°	3964.0
11°	3160.0
12°	2577.0
13°	2164.1
14°	1864.8
15°	1643.9
16°	1478.0
17°	1356.6
18°	1264.2
19°	1175.9
20°	1097.6
21°	1032.6
22°	974.8
23°	923.9
24°	879.5
25°	844.9
26°	818.8
27°	799.0
28°	780.0
29°	763.0
30°	746.1
32.5°	703.7
35°	577.4
37.5°	344.4
40°	113.6
42.5°	33.9
45°	24.0
47.5°	16.9
50°	7.8
52.5°	7.1
55°	5.6
57.5°	4.2
60°	2.8
62.5°	1.4
65°	1.4



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.7
70°	0.7
72.5°	0.7
75°	0.7
77.5°	0.7
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°	0.7
105°	0.7
107.5°	0.7
110°	0.7
112.5°	0.7
115°	1.4
117.5°	1.4
120°	2.8
122.5°	4.2
125°	5.6
127.5°	7.1
130°	7.8
132.5°	16.9
135°	24.0
137.5°	33.9
140°	113.6
142.5°	344.4
145°	577.4
147.5°	703.7
150°	746.1
151°	763.0
152°	780.0
153°	799.0
154°	818.8
155°	844.9
156°	879.5
157°	923.9
158°	974.8
159°	1032.6
160°	1097.6
161°	1175.9



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CANDELA DISTRIBUTION (continued):

	0°
162°	1264.2
163°	1356.6
164°	1478.0
165°	1643.9
166°	1864.8
167°	2164.1
168°	2577.0
169°	3160.0
170°	3964.0
171°	4971.2
172°	6152.1
173°	7325.2
174°	8520.9
175°	9627.6
176°	10586.2
177°	11339.3
178°	11889.8
179°	12244.9
180°	12415.7

(END OF REPORT)