

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: P221813

Luminaire Tested: **9004-W2-[RW, RI]-LED3097-W-BK-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221813
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29494)
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-W-BK-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED 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: 3369.5 lumens
Efficiency: N/A
Efficacy: 58.9 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.83
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

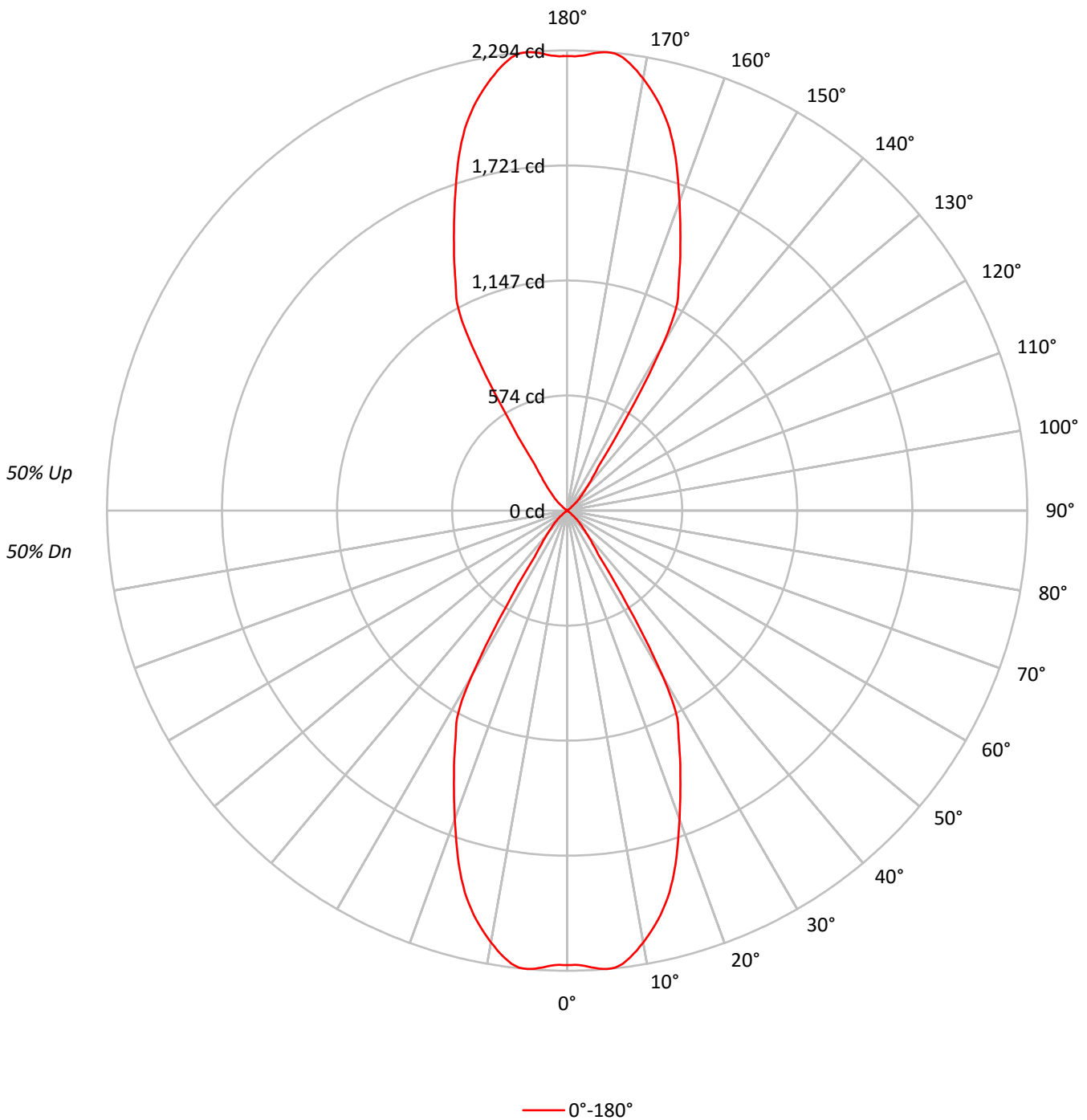
Input Watts (W): 57.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	97	94	91	93	90	87	85	77	75	74		65	64	63		53	53	52	47
2	94	88	83	79	87	82	78	75	71	68	66		60	59	57		51	50	49	44
3	88	80	75	70	81	75	70	67	65	62	59		56	54	52		48	47	45	42
4	82	74	68	63	76	69	64	60	61	57	54		53	50	48		46	44	42	39
5	77	68	62	57	72	64	58	54	57	52	49		50	47	44		43	41	40	37
6	72	63	56	52	68	59	54	50	53	49	45		47	44	41		41	39	37	35
7	68	58	52	47	64	55	50	46	49	45	42		44	41	38		39	37	35	33
8	64	54	48	44	60	52	46	42	46	42	39		41	38	36		37	35	33	31
9	61	51	45	40	57	48	43	39	44	39	36		39	36	34		35	33	31	29
10	58	48	42	38	54	45	40	36	41	37	34		37	34	32		33	31	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	279464
5°	284036
10°	273793
15°	251652
20°	214849
25°	180505
30°	135107
35°	42403
40°	25119
45°	15263
50°	6371
55°	1054
60°	691
65°	409
70°	252
75°	334
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.5	6.4
10°-20°	543.5	16.1
20°-30°	605.4	18.0
30°-40°	241.5	7.2
40°-50°	69.0	2.0
50°-60°	7.6	0.2
60°-70°	1.5	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°	1.5	0.0
120°-130°	7.6	0.2
130°-140°	69.0	2.0
140°-150°	241.5	7.2
150°-160°	605.4	18.0
160°-170°	543.5	16.1
170°-180°	215.5	6.4
0°-30°	1364.5	40.5
0°-40°	1606.0	47.7
0°-60°	1682.7	49.9
0°-90°	1684.8	50.0
90°-120°	2.1	0.1
90°-150°	320.3	9.5
90°-180°	1685.0	50.0
0°-180°	3369.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2266	
5°	2294	216
15°	1971	544
25°	1326	605
35°	282	242
45°	88	69
55°	5	8
65°	1	1
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	1	1
125°	5	8
135°	88	69
145°	282	242
155°	1326	605
165°	1971	544
175°	2294	216
180°	2266	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2265.7
1°	2265.0
2°	2269.3
3°	2279.9
4°	2289.7
5°	2294.0
6°	2291.2
7°	2276.3
8°	2250.9
9°	2219.9
10°	2186.0
11°	2149.3
12°	2111.2
13°	2068.8
14°	2022.2
15°	1970.7
16°	1910.7
17°	1846.5
18°	1776.6
19°	1705.3
20°	1636.8
21°	1570.5
22°	1507.0
23°	1444.9
24°	1386.3
25°	1326.3
26°	1269.8
27°	1221.1
28°	1170.3
29°	1080.6
30°	948.6
32.5°	554.8
35°	281.6
37.5°	208.2
40°	156.0
42.5°	115.8
45°	87.5
47.5°	64.9
50°	33.2
52.5°	8.5
55°	4.9
57.5°	3.5
60°	2.8
62.5°	2.1
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°	2.1
120°	2.8
122.5°	3.5
125°	4.9
127.5°	8.5
130°	33.2
132.5°	64.9
135°	87.5
137.5°	115.8
140°	156.0
142.5°	208.2
145°	281.6
147.5°	554.8
150°	948.6
151°	1080.6
152°	1170.3
153°	1221.1
154°	1269.8
155°	1326.3
156°	1386.3
157°	1444.9
158°	1507.0
159°	1570.5
160°	1636.8
161°	1705.3



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CANDELA DISTRIBUTION (continued):

	0°
162°	1776.6
163°	1846.5
164°	1910.7
165°	1970.7
166°	2022.2
167°	2068.8
168°	2111.2
169°	2149.3
170°	2186.0
171°	2219.9
172°	2250.9
173°	2276.3
174°	2291.2
175°	2294.0
176°	2289.7
177°	2279.9
178°	2269.3
179°	2265.0
180°	2265.7

(END OF REPORT)