

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: P221891

Luminaire Tested: **9004-W2-[RW, RI]-LED4097-F-BK-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221891
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29493)
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]-LED4097-F-BK-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 4000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3982.9 lumens
Efficiency: N/A
Efficacy: 69.6 lumens/watt
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.56
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

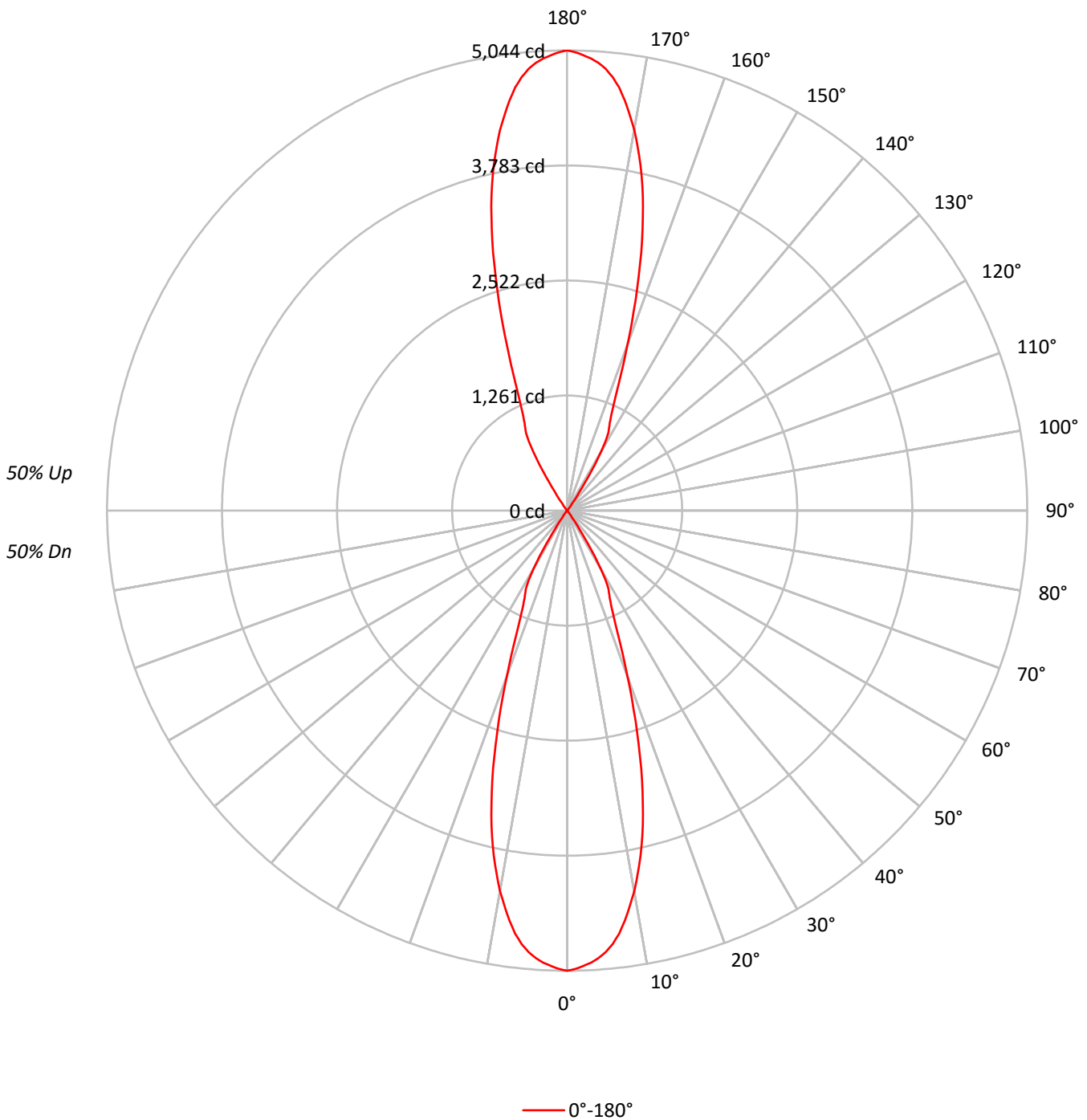
Input Watts (W): 57.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	53	53	48
2	95	89	85	81	88	83	79	76	72	69	67		61	60	58		52	51	50	46
3	89	82	77	73	83	77	72	69	67	64	61		58	56	54		50	49	47	44
4	84	76	70	66	78	71	66	63	63	59	57		55	53	51		48	46	45	42
5	79	71	65	60	74	67	61	58	59	55	53		52	50	48		46	44	43	40
6	75	66	60	55	70	62	57	53	56	52	49		50	47	45		44	42	41	38
7	71	62	56	52	67	59	53	50	53	49	46		48	45	43		42	41	39	37
8	68	58	52	48	64	55	50	47	50	46	44		45	43	40		41	39	37	35
9	64	55	49	45	61	52	47	44	48	44	41		43	41	39		39	37	36	34
10	61	52	46	43	58	50	45	41	46	42	39		42	39	37		38	36	35	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	622118
5°	601514
10°	530415
15°	408349
20°	253322
25°	154960
30°	105482
35°	13974
40°	3961
45°	977
50°	768
55°	516
60°	395
65°	467
70°	289
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	443.8	11.1
10°-20°	857.8	21.5
20°-30°	550.0	13.8
30°-40°	129.6	3.3
40°-50°	6.2	0.2
50°-60°	2.4	0.1
60°-70°	1.3	0.0
70°-80°	0.3	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.5	0.0
110°-120°	1.3	0.0
120°-130°	2.4	0.1
130°-140°	6.2	0.2
140°-150°	129.6	3.3
150°-160°	550.0	13.8
160°-170°	857.8	21.5
170°-180°	443.8	11.1
0°-30°	1851.7	46.5
0°-40°	1981.3	49.7
0°-60°	1989.9	50.0
0°-90°	1991.5	50.0
90°-120°	1.8	0.0
90°-150°	140.0	3.5
90°-180°	1992.0	50.0
0°-180°	3982.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5044	
5°	4858	444
15°	3198	858
25°	1139	550
35°	93	130
45°	6	6
55°	2	2
65°	2	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	1
115°	2	1
125°	2	2
135°	6	6
145°	93	130
155°	1139	550
165°	3198	858
175°	4858	444
180°	5044	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5043.7
1°	5025.4
2°	4996.1
3°	4962.8
4°	4919.2
5°	4858.1
6°	4776.4
7°	4672.6
8°	4537.8
9°	4391.1
10°	4234.9
11°	4058.1
12°	3868.6
13°	3663.2
14°	3435.6
15°	3197.8
16°	2945.6
17°	2684.8
18°	2424.7
19°	2172.6
20°	1929.9
21°	1714.3
22°	1521.6
23°	1359.8
24°	1236.9
25°	1138.6
26°	1064.9
27°	1007.8
28°	957.0
29°	870.6
30°	740.6
32.5°	353.6
35°	92.8
37.5°	49.2
40°	24.6
42.5°	7.9
45°	5.6
47.5°	4.8
50°	4.0
52.5°	3.2
55°	2.4
57.5°	2.4
60°	1.6
62.5°	1.6
65°	1.6



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.8
70°	0.8
72.5°	0.8
75°	0.0
77.5°	0.0
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°	0.0
105°	0.0
107.5°	0.8
110°	0.8
112.5°	0.8
115°	1.6
117.5°	1.6
120°	1.6
122.5°	2.4
125°	2.4
127.5°	3.2
130°	4.0
132.5°	4.8
135°	5.6
137.5°	7.9
140°	24.6
142.5°	49.2
145°	92.8
147.5°	353.6
150°	740.6
151°	870.6
152°	957.0
153°	1007.8
154°	1064.9
155°	1138.6
156°	1236.9
157°	1359.8
158°	1521.6
159°	1714.3
160°	1929.9
161°	2172.6



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CANDELA DISTRIBUTION (continued):

	0°
162°	2424.7
163°	2684.8
164°	2945.6
165°	3197.8
166°	3435.6
167°	3663.2
168°	3868.6
169°	4058.1
170°	4234.9
171°	4391.1
172°	4537.8
173°	4672.6
174°	4776.4
175°	4858.1
176°	4919.2
177°	4962.8
178°	4996.1
179°	5025.4
180°	5043.7

(END OF REPORT)