

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: P221905

Luminaire Tested: **9004-W2-[RW, RI]-LED4097-S-WT-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221905
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29487)
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-S-WT-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, SPOT OPTIC, WHITE HOUSING.
Light Source: (1) 4000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3233.0 lumens
Efficiency: N/A
Efficacy: 80.4 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

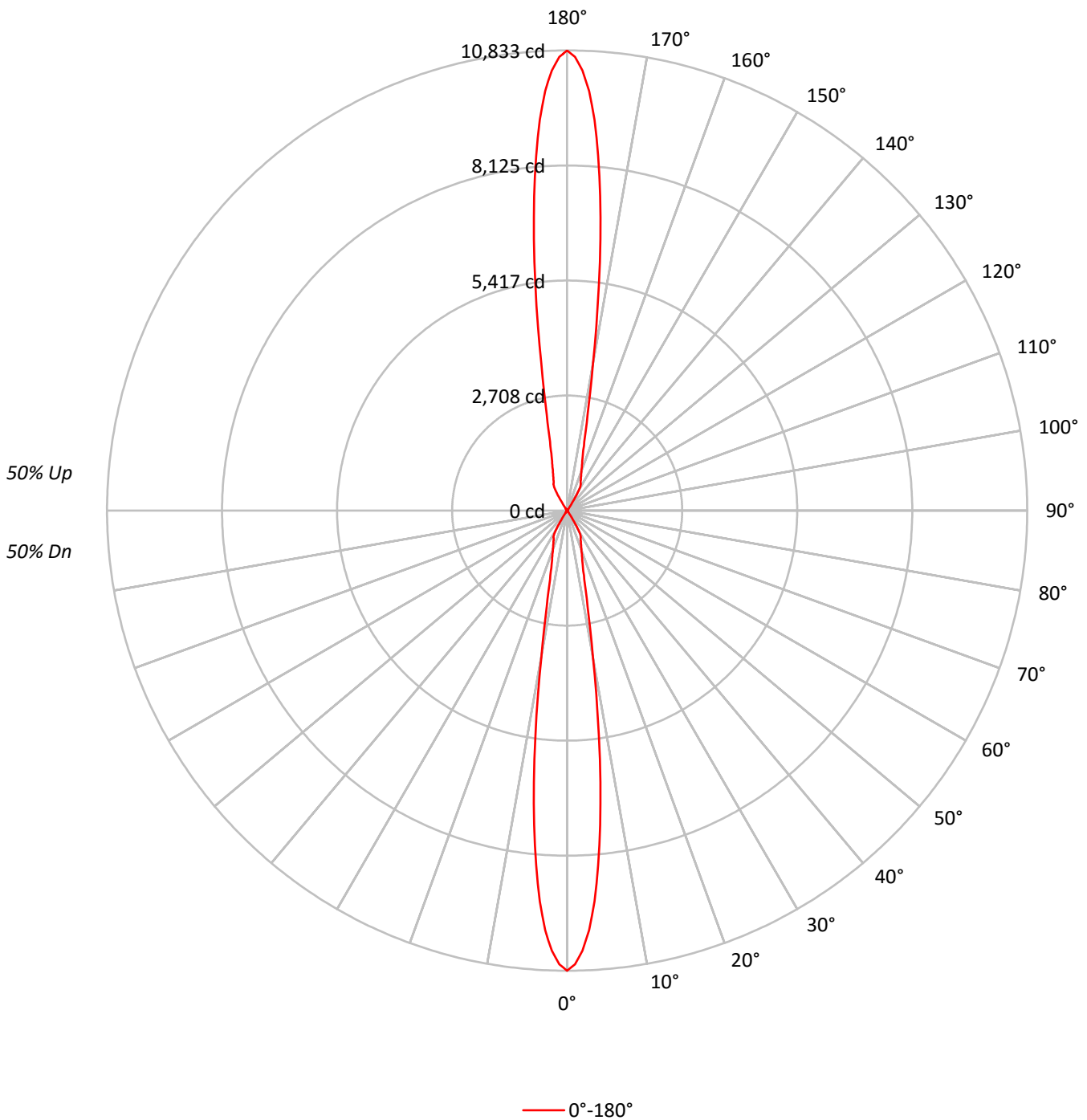
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	92	93	90	88	86	77	75	74		65	64	63		54	53	53	48
2	94	89	85	81	87	83	79	76	72	69	67		61	60	58		52	51	50	46
3	89	82	77	72	83	77	72	69	67	64	61		58	56	54		50	48	47	44
4	84	76	70	66	78	72	67	63	63	60	57		55	53	51		48	46	45	42
5	79	71	65	61	74	67	62	58	60	56	53		53	50	48		46	45	43	41
6	75	67	61	56	71	63	58	54	57	53	50		50	48	46		45	43	42	39
7	72	63	57	53	67	60	54	51	54	50	47		48	46	44		43	42	40	38
8	68	59	54	50	65	57	52	48	51	48	45		47	44	42		42	40	39	37
9	66	56	51	47	62	54	49	46	49	46	43		45	42	40		41	39	38	36
10	63	54	48	45	59	52	47	43	47	44	41		43	41	39		40	38	36	35

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1336179
5°	1038315
10°	439998
15°	188110
20°	128453
25°	102372
30°	76540
35°	10134
40°	5426
45°	3942
50°	4222
55°	4602
60°	5131
65°	5896
70°	6852
75°	8149
80°	9589
85°	9482



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	632.8	19.6
10°-20°	453.5	14.0
20°-30°	349.9	10.8
30°-40°	97.0	3.0
40°-50°	18.8	0.6
50°-60°	19.2	0.6
60°-70°	20.0	0.6
70°-80°	17.9	0.6
80°-90°	7.5	0.2
90°-100°	7.5	0.2
100°-110°	17.9	0.6
110°-120°	20.0	0.6
120°-130°	19.2	0.6
130°-140°	18.8	0.6
140°-150°	97.0	3.0
150°-160°	349.9	10.8
160°-170°	453.5	14.0
170°-180°	632.8	19.6
0°-30°	1436.2	44.4
0°-40°	1533.2	47.4
0°-60°	1571.2	48.6
0°-90°	1616.5	50.0
90°-120°	45.3	1.4
90°-150°	180.3	5.6
90°-180°	1616.0	50.0
0°-180°	3233.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10833	
5°	8386	633
15°	1473	453
25°	752	350
35°	67	97
45°	23	19
55°	21	19
65°	20	20
75°	17	18
85°	7	7
90°	0	1
95°	7	7
105°	17	18
115°	20	20
125°	21	19
135°	23	19
145°	67	97
155°	752	350
165°	1473	453
175°	8386	633
180°	10833	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	10832.8
1°	10681.0
2°	10366.4
3°	9888.4
4°	9223.8
5°	8385.9
6°	7439.7
7°	6440.9
8°	5359.5
9°	4379.0
10°	3513.0
11°	2830.6
12°	2312.8
13°	1938.3
14°	1673.3
15°	1473.1
16°	1324.4
17°	1213.0
18°	1125.5
19°	1049.0
20°	978.6
22.5°	847.6
25°	752.2
26°	727.7
27°	706.9
28°	681.8
29°	627.3
30°	537.4
32.5°	258.3
35°	67.3
37.5°	43.5
40°	33.7
42.5°	25.1
45°	22.6
47.5°	22.0
50°	22.0
52.5°	21.4
55°	21.4
57.5°	21.4
60°	20.8
62.5°	20.8
65°	20.2
67.5°	19.6
70°	19.0
72.5°	18.4

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CANDELA DISTRIBUTION (continued):

	0°
75°	17.1
77.5°	15.9
80°	13.5
82.5°	11.0
85°	6.7
87.5°	3.1
90°	0.0
92.5°	3.1
95°	6.7
97.5°	11.0
100°	13.5
102.5°	15.9
105°	17.1
107.5°	18.4
110°	19.0
112.5°	19.6
115°	20.2
117.5°	20.8
120°	20.8
122.5°	21.4
125°	21.4
127.5°	21.4
130°	22.0
132.5°	22.0
135°	22.6
137.5°	25.1
140°	33.7
142.5°	43.5
145°	67.3
147.5°	258.3
150°	537.4
151°	627.3
152°	681.8
153°	706.9
154°	727.7
155°	752.2
157.5°	847.6
160°	978.6
161°	1049.0
162°	1125.5
163°	1213.0
164°	1324.4
165°	1473.1
166°	1673.3
167°	1938.3



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CANDELA DISTRIBUTION (continued):

	0°
168°	2312.8
169°	2830.6
170°	3513.0
171°	4379.0
172°	5359.5
173°	6440.9
174°	7439.7
175°	8385.9
176°	9223.8
177°	9888.4
178°	10366.4
179°	10681.0
180°	10832.8

(END OF REPORT)