

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: P221893

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221893
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29489)
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-WT-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 4000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3303.6 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.57
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

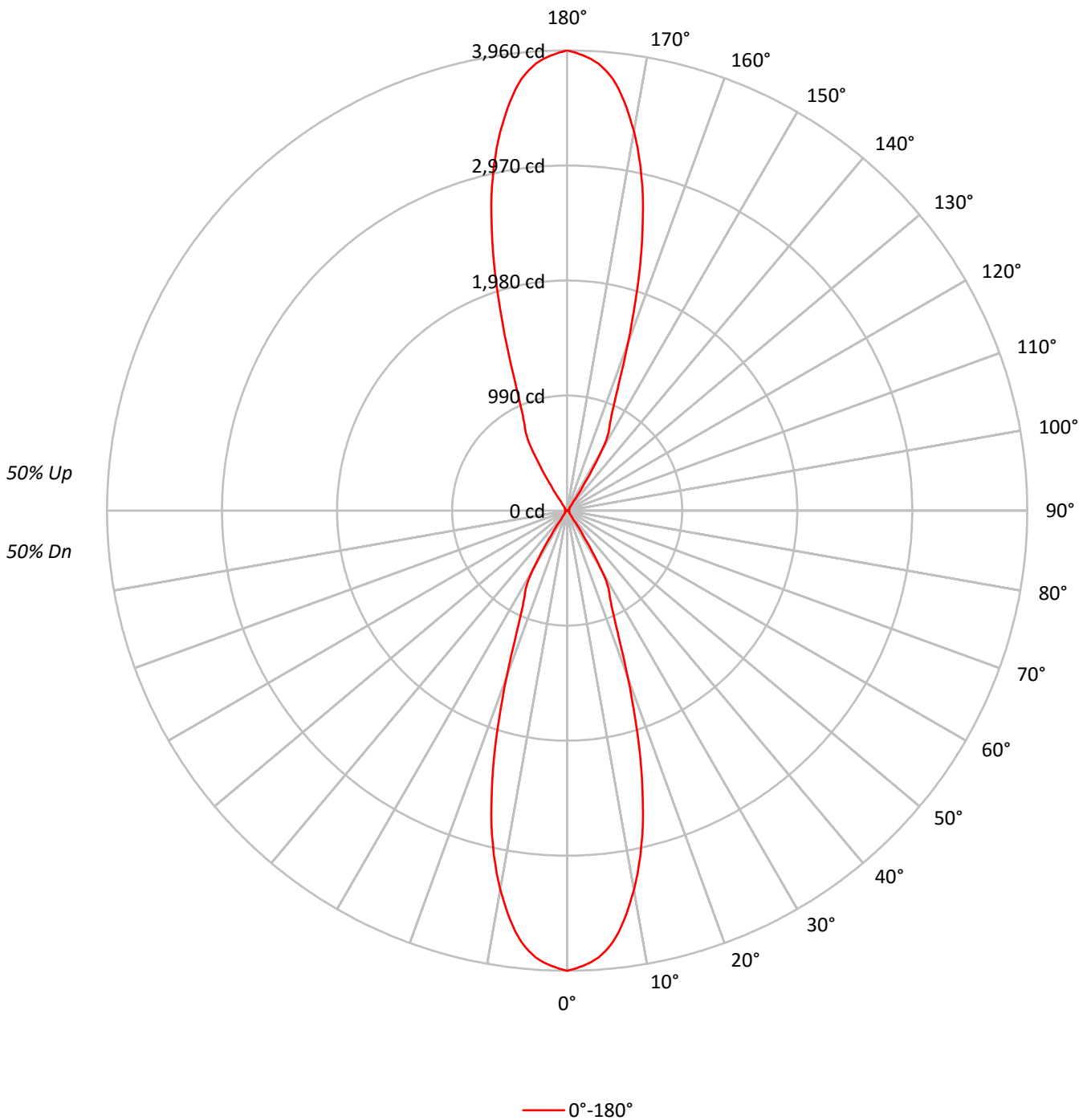
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	91	93	90	87	85	77	75	74		65	64	63		53	53	52	47
2	94	88	84	80	87	82	78	75	71	68	66		61	59	57		51	50	49	45
3	88	81	76	71	82	76	71	67	66	63	60		57	55	53		49	47	46	42
4	83	75	69	64	77	70	65	61	62	58	55		54	51	49		47	45	44	40
5	78	69	63	59	73	65	60	56	58	54	51		51	48	46		45	43	41	39
6	74	65	58	54	69	61	56	52	55	51	48		49	46	43		43	41	39	37
7	70	60	54	50	66	57	52	48	52	48	45		46	43	41		41	39	38	35
8	66	57	51	47	62	54	49	45	49	45	42		44	41	39		39	37	36	34
9	63	54	48	44	60	51	46	42	46	42	40		42	39	37		38	36	34	33
10	60	51	45	41	57	48	43	40	44	40	38		40	37	35		37	34	33	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	488498
5°	471036
10°	414773
15°	320276
20°	199951
25°	123113
30°	84374
35°	13266
40°	6006
45°	4064
50°	4222
55°	4602
60°	5131
65°	5720
70°	6636
75°	8149
80°	9589
85°	9482



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.3	10.5
10°-20°	673.5	20.4
20°-30°	436.1	13.2
30°-40°	112.2	3.4
40°-50°	19.1	0.6
50°-60°	19.3	0.6
60°-70°	19.4	0.6
70°-80°	17.5	0.5
80°-90°	7.3	0.2
90°-100°	7.3	0.2
100°-110°	17.5	0.5
110°-120°	19.4	0.6
120°-130°	19.3	0.6
130°-140°	19.1	0.6
140°-150°	112.2	3.4
150°-160°	436.1	13.2
160°-170°	673.5	20.4
170°-180°	347.3	10.5
0°-30°	1456.9	44.1
0°-40°	1569.1	47.5
0°-60°	1607.6	48.7
0°-90°	1651.8	50.0
90°-120°	44.2	1.3
90°-150°	194.9	5.9
90°-180°	1652.0	50.0
0°-180°	3303.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3960	
5°	3804	347
15°	2508	673
25°	905	436
35°	88	112
45°	23	19
55°	21	19
65°	20	19
75°	17	17
85°	7	7
90°	0	1
95°	7	7
105°	17	17
115°	20	19
125°	21	19
135°	23	19
145°	88	112
155°	905	436
165°	2508	673
175°	3804	347
180°	3960	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3960.4
1°	3942.6
2°	3919.4
3°	3891.8
4°	3856.3
5°	3804.3
6°	3738.2
7°	3651.9
8°	3548.5
9°	3433.4
10°	3311.6
11°	3178.2
12°	3031.3
13°	2872.2
14°	2697.8
15°	2508.1
16°	2312.2
17°	2110.9
18°	1908.9
19°	1710.0
20°	1523.3
21°	1352.6
22°	1203.8
23°	1078.4
24°	979.8
25°	904.6
26°	845.2
27°	799.3
28°	760.7
29°	693.4
30°	592.4
32.5°	296.2
35°	88.1
37.5°	56.3
40°	37.3
42.5°	23.9
45°	23.3
47.5°	22.6
50°	22.0
52.5°	22.0
55°	21.4
57.5°	21.4
60°	20.8
62.5°	20.2
65°	19.6



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	19.0
70°	18.4
72.5°	17.7
75°	17.1
77.5°	15.3
80°	13.5
82.5°	10.4
85°	6.7
87.5°	3.1
90°	0.0
92.5°	3.1
95°	6.7
97.5°	10.4
100°	13.5
102.5°	15.3
105°	17.1
107.5°	17.7
110°	18.4
112.5°	19.0
115°	19.6
117.5°	20.2
120°	20.8
122.5°	21.4
125°	21.4
127.5°	22.0
130°	22.0
132.5°	22.6
135°	23.3
137.5°	23.9
140°	37.3
142.5°	56.3
145°	88.1
147.5°	296.2
150°	592.4
151°	693.4
152°	760.7
153°	799.3
154°	845.2
155°	904.6
156°	979.8
157°	1078.4
158°	1203.8
159°	1352.6
160°	1523.3
161°	1710.0



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CANDELA DISTRIBUTION (continued):

	0°
162°	1908.9
163°	2110.9
164°	2312.2
165°	2508.1
166°	2697.8
167°	2872.2
168°	3031.3
169°	3178.2
170°	3311.6
171°	3433.4
172°	3548.5
173°	3651.9
174°	3738.2
175°	3804.3
176°	3856.3
177°	3891.8
178°	3919.4
179°	3942.6
180°	3960.4

(END OF REPORT)