

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: P222148

Luminaire Tested: **9004-W2-FL-LED4097-W-BK-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222148
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29499)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9004-W2-FL-LED4097-W-BK-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, WIDE FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 4000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3415.3 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

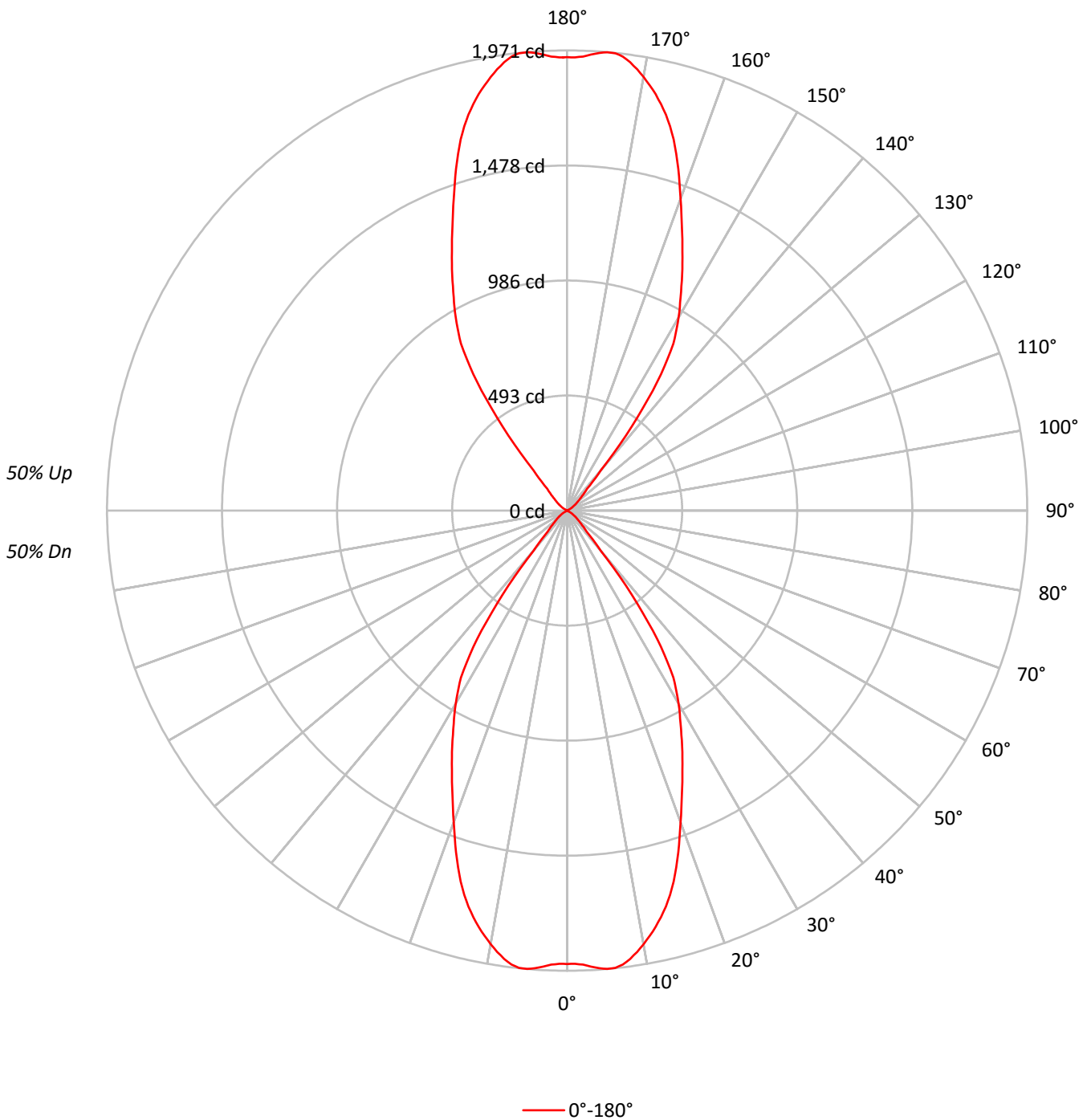
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	92	90	87	85	76	75	73		64	63	62		53	53	52	47
2	93	88	83	79	86	81	77	74	70	67	65		60	58	56		50	49	48	43
3	87	80	74	69	81	74	69	65	65	61	58		56	53	51		47	46	44	40
4	81	73	66	61	76	68	63	58	60	56	52		52	49	47		44	42	41	38
5	76	67	60	55	71	63	57	53	55	51	48		48	45	43		42	40	38	35
6	71	61	55	50	66	58	52	48	51	47	43		45	42	39		39	37	35	33
7	67	57	50	45	62	54	48	44	48	43	40		42	39	36		37	35	33	31
8	63	52	46	41	59	50	44	40	45	40	37		40	36	34		35	33	31	29
9	59	49	42	38	56	46	41	37	42	37	34		37	34	31		33	31	29	27
10	56	46	39	35	52	43	38	34	39	35	32		35	32	29		31	29	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	239525
5°	244006
10°	236244
15°	217583
20°	186457
25°	159002
30°	135990
35°	101655
40°	36068
45°	16868
50°	11149
55°	7505
60°	3774
65°	905
70°	649
75°	572
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.4	5.4
10°-20°	470.3	13.8
20°-30°	536.8	15.7
30°-40°	394.1	11.5
40°-50°	83.7	2.4
50°-60°	31.6	0.9
60°-70°	4.5	0.1
70°-80°	1.2	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	1.2	0.0
110°-120°	4.5	0.1
120°-130°	31.6	0.9
130°-140°	83.7	2.4
140°-150°	394.1	11.5
150°-160°	536.8	15.7
160°-170°	470.3	13.8
170°-180°	185.4	5.4
0°-30°	1192.6	34.9
0°-40°	1586.7	46.5
0°-60°	1702.0	49.8
0°-90°	1707.6	50.0
90°-120°	5.7	0.2
90°-150°	515.1	15.1
90°-180°	1708.0	50.0
0°-180°	3415.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1942	
5°	1971	185
15°	1704	470
25°	1168	537
35°	675	394
45°	97	84
55°	35	32
65°	3	4
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	3	4
125°	35	32
135°	97	84
145°	675	394
155°	1168	537
165°	1704	470
175°	1971	185
180°	1942	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1941.9
1°	1941.3
2°	1946.2
3°	1956.0
4°	1965.2
5°	1970.7
6°	1969.5
7°	1959.1
8°	1938.9
9°	1913.8
10°	1886.2
11°	1855.0
12°	1823.2
13°	1787.1
14°	1747.9
15°	1703.9
16°	1653.7
17°	1598.0
18°	1540.5
19°	1479.9
20°	1420.5
21°	1365.4
22°	1312.2
23°	1262.0
24°	1214.2
25°	1168.3
26°	1123.7
27°	1078.4
28°	1034.9
29°	994.5
30°	954.8
32.5°	847.6
35°	675.1
37.5°	456.0
40°	224.0
42.5°	126.1
45°	96.7
47.5°	75.9
50°	58.1
52.5°	45.9
55°	34.9
57.5°	25.1
60°	15.3
62.5°	4.3
65°	3.1



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	2.4
70°	1.8
72.5°	1.8
75°	1.2
77.5°	0.6
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°	0.6
105°	1.2
107.5°	1.8
110°	1.8
112.5°	2.4
115°	3.1
117.5°	4.3
120°	15.3
122.5°	25.1
125°	34.9
127.5°	45.9
130°	58.1
132.5°	75.9
135°	96.7
137.5°	126.1
140°	224.0
142.5°	456.0
145°	675.1
147.5°	847.6
150°	954.8
151°	994.5
152°	1034.9
153°	1078.4
154°	1123.7
155°	1168.3
156°	1214.2
157°	1262.0
158°	1312.2
159°	1365.4
160°	1420.5
161°	1479.9



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CANDELA DISTRIBUTION (continued):

	0°
162°	1540.5
163°	1598.0
164°	1653.7
165°	1703.9
166°	1747.9
167°	1787.1
168°	1823.2
169°	1855.0
170°	1886.2
171°	1913.8
172°	1938.9
173°	1959.1
174°	1969.5
175°	1970.7
176°	1965.2
177°	1956.0
178°	1946.2
179°	1941.3
180°	1941.9

(END OF REPORT)