

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: P222052

Luminaire Tested: **9004-W2-FL-LED3097-W-BK-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222052
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-LED3097-W-BK-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH 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: 3040.3 lumens
Efficiency: N/A
Efficacy: 75.6 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

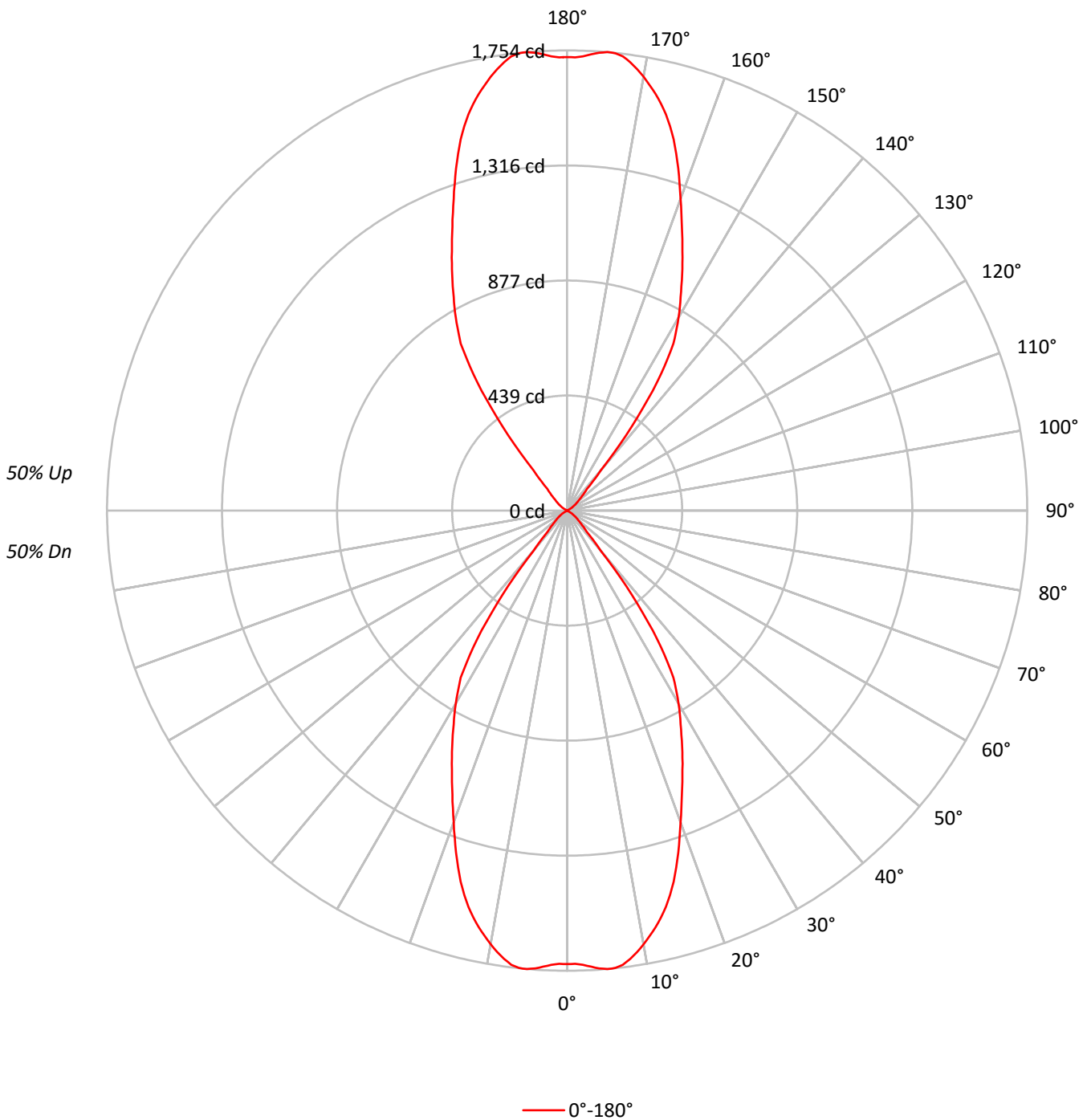
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	213228
5°	217212
10°	210305
15°	193690
20°	165980
25°	141554
30°	121049
35°	90482
40°	32107
45°	15019
50°	9940
55°	6688
60°	3355
65°	788
70°	577
75°	524
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.1	5.4
10°-20°	418.6	13.8
20°-30°	477.9	15.7
30°-40°	350.8	11.5
40°-50°	74.5	2.4
50°-60°	28.2	0.9
60°-70°	4.0	0.1
70°-80°	1.1	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	1.1	0.0
110°-120°	4.0	0.1
120°-130°	28.2	0.9
130°-140°	74.5	2.4
140°-150°	350.8	11.5
150°-160°	477.9	15.7
160°-170°	418.6	13.8
170°-180°	165.1	5.4
0°-30°	1061.6	34.9
0°-40°	1412.4	46.5
0°-60°	1515.1	49.8
0°-90°	1520.1	50.0
90°-120°	5.0	0.2
90°-150°	458.5	15.1
90°-180°	1520.0	50.0
0°-180°	3040.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1729	
5°	1754	165
15°	1517	419
25°	1040	478
35°	601	351
45°	86	74
55°	31	28
65°	3	4
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	3	4
125°	31	28
135°	86	74
145°	601	351
155°	1040	478
165°	1517	419
175°	1754	165
180°	1729	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1728.7
1°	1728.2
2°	1732.5
3°	1741.2
4°	1749.4
5°	1754.3
6°	1753.2
7°	1744.0
8°	1726.0
9°	1703.6
10°	1679.1
11°	1651.3
12°	1623.0
13°	1590.9
14°	1556.0
15°	1516.8
16°	1472.1
17°	1422.5
18°	1371.3
19°	1317.4
20°	1264.5
21°	1215.5
22°	1168.1
23°	1123.4
24°	1080.9
25°	1040.1
26°	1000.3
27°	960.0
28°	921.3
29°	885.3
30°	849.9
32.5°	754.6
35°	600.9
37.5°	405.9
40°	199.4
42.5°	112.2
45°	86.1
47.5°	67.6
50°	51.8
52.5°	40.9
55°	31.1
57.5°	22.3
60°	13.6
62.5°	3.8
65°	2.7



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	2.2
70°	1.6
72.5°	1.6
75°	1.1
77.5°	0.5
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°	0.5
105°	1.1
107.5°	1.6
110°	1.6
112.5°	2.2
115°	2.7
117.5°	3.8
120°	13.6
122.5°	22.3
125°	31.1
127.5°	40.9
130°	51.8
132.5°	67.6
135°	86.1
137.5°	112.2
140°	199.4
142.5°	405.9
145°	600.9
147.5°	754.6
150°	849.9
151°	885.3
152°	921.3
153°	960.0
154°	1000.3
155°	1040.1
156°	1080.9
157°	1123.4
158°	1168.1
159°	1215.5
160°	1264.5
161°	1317.4



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CANDELA DISTRIBUTION (continued):

	0°
162°	1371.3
163°	1422.5
164°	1472.1
165°	1516.8
166°	1556.0
167°	1590.9
168°	1623.0
169°	1651.3
170°	1679.1
171°	1703.6
172°	1726.0
173°	1744.0
174°	1753.2
175°	1754.3
176°	1749.4
177°	1741.2
178°	1732.5
179°	1728.2
180°	1728.7

(END OF REPORT)