

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: P221812

Luminaire Tested: **9004-W2-[RW, RI]-LED3097-W-BK-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221812
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29494)
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]-LED3097-W-BK-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED 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: 2600.8 lumens
Efficiency: N/A
Efficacy: 64.7 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.83
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

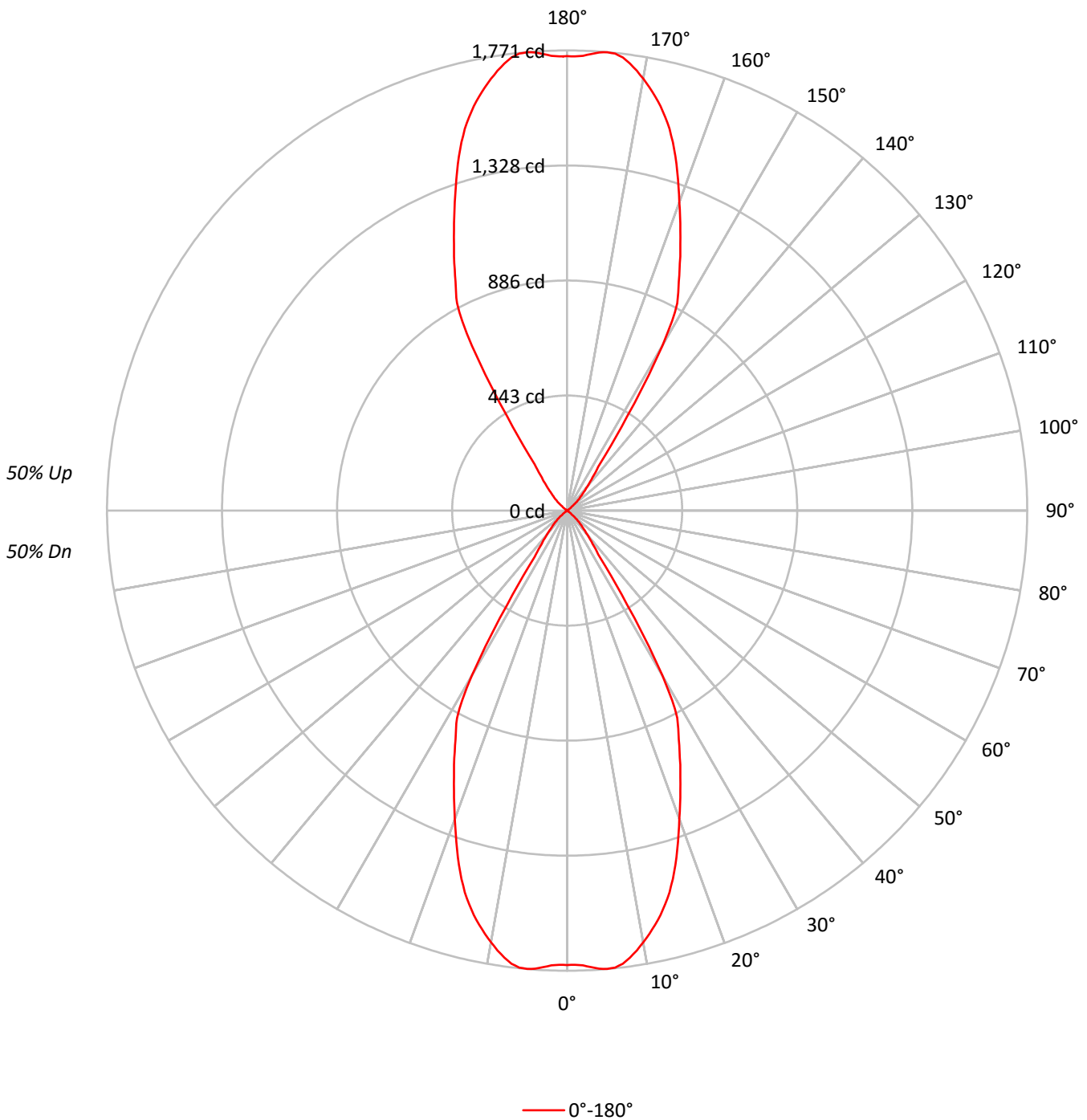
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	83	79	87	82	78	75	71	68	66		60	59	57		51	50	49	44
3	88	80	75	70	81	75	70	67	65	62	59		56	54	52		48	47	45	42
4	82	74	68	63	76	69	64	60	61	57	54		53	50	48		46	44	42	39
5	77	68	62	57	72	64	58	54	57	52	49		50	47	44		43	41	40	37
6	72	63	56	52	68	59	54	50	53	49	45		47	44	41		41	39	37	35
7	68	58	52	47	64	55	50	46	49	45	42		44	41	38		39	37	35	33
8	64	54	48	44	60	52	46	42	46	42	39		41	38	36		37	35	33	31
9	61	51	45	40	57	48	43	39	44	39	36		39	36	34		35	33	31	29
10	58	48	42	38	54	45	40	36	41	37	34		37	34	32		33	31	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	215719
5°	219242
10°	211332
15°	194240
20°	165836
25°	139322
30°	104285
35°	32735
40°	19386
45°	11792
50°	4912
55°	817
60°	543
65°	321
70°	180
75°	238
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.4	6.4
10°-20°	419.5	16.1
20°-30°	467.3	18.0
30°-40°	186.4	7.2
40°-50°	53.3	2.0
50°-60°	5.9	0.2
60°-70°	1.1	0.0
70°-80°	0.5	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.5	0.0
110°-120°	1.1	0.0
120°-130°	5.9	0.2
130°-140°	53.3	2.0
140°-150°	186.4	7.2
150°-160°	467.3	18.0
160°-170°	419.5	16.1
170°-180°	166.4	6.4
0°-30°	1053.2	40.5
0°-40°	1239.6	47.7
0°-60°	1298.8	49.9
0°-90°	1300.4	50.0
90°-120°	1.6	0.1
90°-150°	247.2	9.5
90°-180°	1300.0	50.0
0°-180°	2600.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1749	
5°	1771	166
15°	1521	420
25°	1024	467
35°	217	186
45°	68	53
55°	4	6
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	1	1
125°	4	6
135°	68	53
145°	217	186
155°	1024	467
165°	1521	420
175°	1771	166
180°	1749	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1748.9
1°	1748.3
2°	1751.6
3°	1759.8
4°	1767.4
5°	1770.7
6°	1768.5
7°	1757.0
8°	1737.4
9°	1713.5
10°	1687.3
11°	1659.0
12°	1629.6
13°	1596.9
14°	1560.9
15°	1521.1
16°	1474.8
17°	1425.2
18°	1371.3
19°	1316.3
20°	1263.4
21°	1212.2
22°	1163.2
23°	1115.2
24°	1070.0
25°	1023.7
26°	980.1
27°	942.5
28°	903.3
29°	834.1
30°	732.2
32.5°	428.2
35°	217.4
37.5°	160.7
40°	120.4
42.5°	89.4
45°	67.6
47.5°	50.1
50°	25.6
52.5°	6.5
55°	3.8
57.5°	2.7
60°	2.2
62.5°	1.6
65°	1.1



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.5
70°	0.5
72.5°	0.5
75°	0.5
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°	0.5
107.5°	0.5
110°	0.5
112.5°	0.5
115°	1.1
117.5°	1.6
120°	2.2
122.5°	2.7
125°	3.8
127.5°	6.5
130°	25.6
132.5°	50.1
135°	67.6
137.5°	89.4
140°	120.4
142.5°	160.7
145°	217.4
147.5°	428.2
150°	732.2
151°	834.1
152°	903.3
153°	942.5
154°	980.1
155°	1023.7
156°	1070.0
157°	1115.2
158°	1163.2
159°	1212.2
160°	1263.4
161°	1316.3



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CANDELA DISTRIBUTION (continued):

	0°
162°	1371.3
163°	1425.2
164°	1474.8
165°	1521.1
166°	1560.9
167°	1596.9
168°	1629.6
169°	1659.0
170°	1687.3
171°	1713.5
172°	1737.4
173°	1757.0
174°	1768.5
175°	1770.7
176°	1767.4
177°	1759.8
178°	1751.6
179°	1748.3
180°	1748.9

(END OF REPORT)