

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: P221788

Luminaire Tested: **9004-W2-[RW, RI]-LED3090-W-BK-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221788
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]-LED3090-W-BK-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, WIDE FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3000K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2940.7 lumens
Efficiency: N/A
Efficacy: 73.2 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

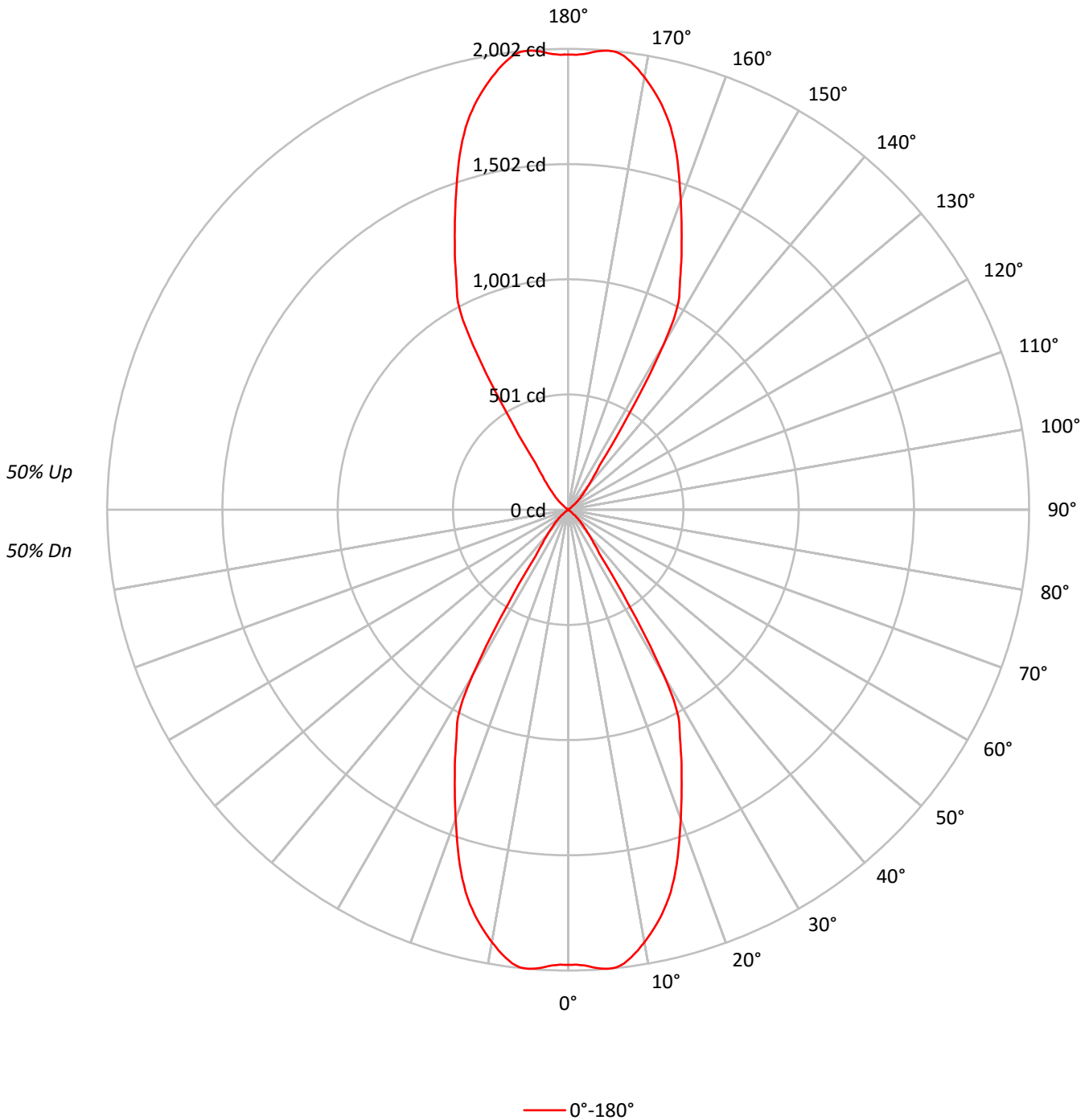
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	243904
5°	247881
10°	238949
15°	219626
20°	187507
25°	157532
30°	117916
35°	37012
40°	21914
45°	13327
50°	5565
55°	925
60°	617
65°	350
70°	216
75°	286
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.1	6.4
10°-20°	474.4	16.1
20°-30°	528.3	18.0
30°-40°	210.8	7.2
40°-50°	60.3	2.0
50°-60°	6.7	0.2
60°-70°	1.3	0.0
70°-80°	0.6	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.6	0.0
110°-120°	1.3	0.0
120°-130°	6.7	0.2
130°-140°	60.3	2.0
140°-150°	210.8	7.2
150°-160°	528.3	18.0
160°-170°	474.4	16.1
170°-180°	188.1	6.4
0°-30°	1190.8	40.5
0°-40°	1401.6	47.7
0°-60°	1468.5	49.9
0°-90°	1470.4	50.0
90°-120°	1.8	0.1
90°-150°	279.6	9.5
90°-180°	1470.0	50.0
0°-180°	2940.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1977	
5°	2002	188
15°	1720	474
25°	1158	528
35°	246	211
45°	76	60
55°	4	7
65°	1	1
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	1	1
125°	4	7
135°	76	60
145°	246	211
155°	1158	528
165°	1720	474
175°	2002	188
180°	1977	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1977.4
1°	1976.8
2°	1980.5
3°	1989.7
4°	1998.3
5°	2002.0
6°	1999.5
7°	1986.6
8°	1964.4
9°	1937.3
10°	1907.8
11°	1875.7
12°	1842.5
13°	1805.5
14°	1764.9
15°	1719.9
16°	1667.5
17°	1611.5
18°	1550.5
19°	1488.3
20°	1428.5
21°	1370.6
22°	1315.2
23°	1261.0
24°	1209.8
25°	1157.5
26°	1108.2
27°	1065.7
28°	1021.3
29°	943.1
30°	827.9
32.5°	484.2
35°	245.8
37.5°	181.7
40°	136.1
42.5°	101.0
45°	76.4
47.5°	56.7
50°	29.0
52.5°	7.4
55°	4.3
57.5°	3.1
60°	2.5
62.5°	1.8
65°	1.2



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.6
70°	0.6
72.5°	0.6
75°	0.6
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°	0.6
107.5°	0.6
110°	0.6
112.5°	0.6
115°	1.2
117.5°	1.8
120°	2.5
122.5°	3.1
125°	4.3
127.5°	7.4
130°	29.0
132.5°	56.7
135°	76.4
137.5°	101.0
140°	136.1
142.5°	181.7
145°	245.8
147.5°	484.2
150°	827.9
151°	943.1
152°	1021.3
153°	1065.7
154°	1108.2
155°	1157.5
156°	1209.8
157°	1261.0
158°	1315.2
159°	1370.6
160°	1428.5
161°	1488.3



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CANDELA DISTRIBUTION (continued):

	0°
162°	1550.5
163°	1611.5
164°	1667.5
165°	1719.9
166°	1764.9
167°	1805.5
168°	1842.5
169°	1875.7
170°	1907.8
171°	1937.3
172°	1964.4
173°	1986.6
174°	1999.5
175°	2002.0
176°	1998.3
177°	1989.7
178°	1980.5
179°	1976.8
180°	1977.4

(END OF REPORT)