

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: P221912

Luminaire Tested: **9004-W2-[RW, RI]-LED4097-W-WT-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221912
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29490)
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-W-WT-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, WIDE FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 4000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4119.5 lumens
Efficiency: N/A
Efficacy: 72.3 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.84 / 0.83
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

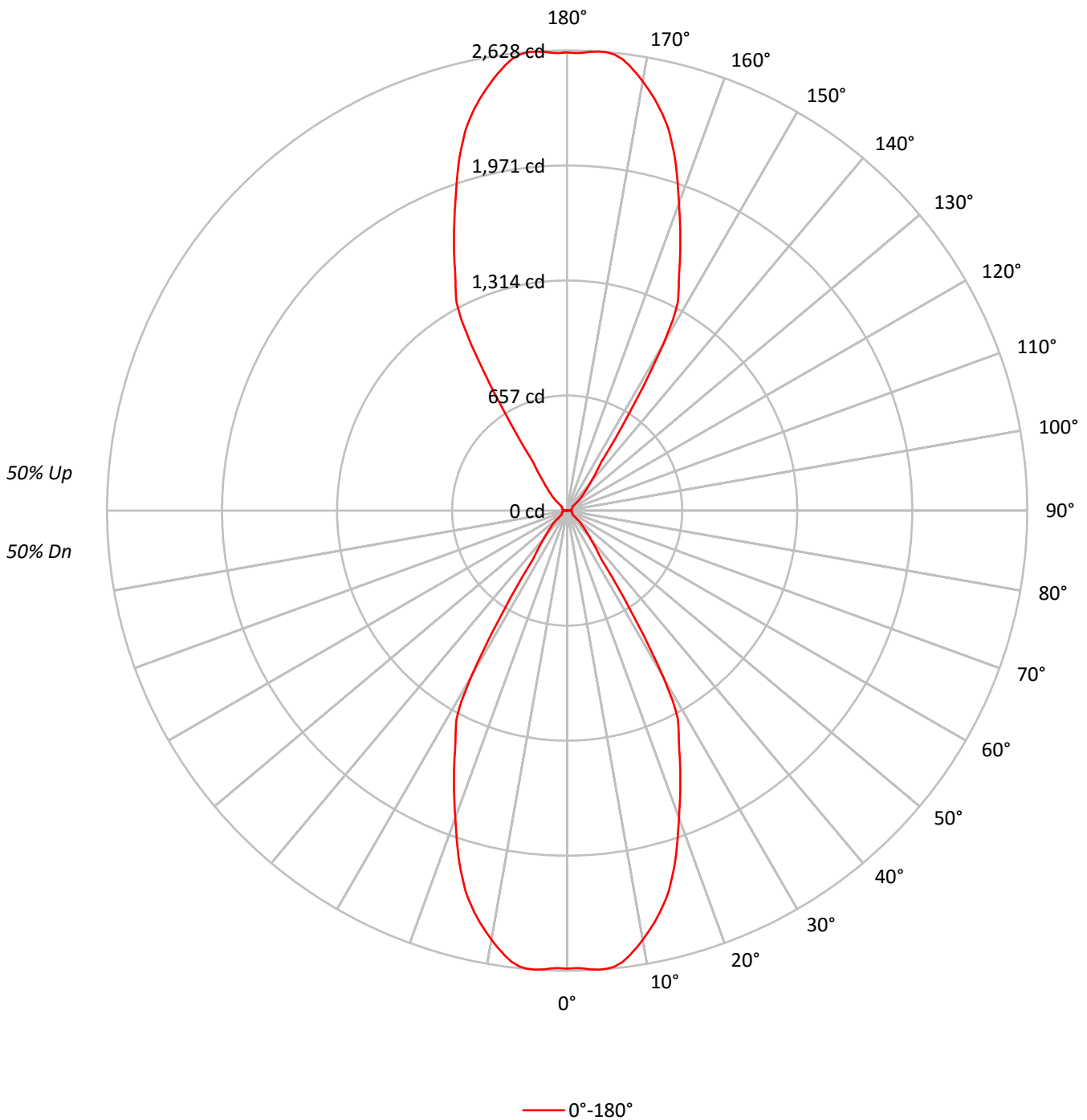
Input Watts (W): 57
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	96	93	90	92	89	87	84	76	74	73		64	63	62		53	52	51	46
2	93	87	82	78	86	81	77	73	70	67	64		59	57	56		50	48	47	43
3	87	79	73	69	80	74	69	65	64	61	58		55	53	51		47	45	44	40
4	81	72	66	61	75	68	62	58	59	55	52		51	49	46		44	42	41	37
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	44		45	42	39		39	37	35	33
7	67	57	50	46	63	54	48	44	48	43	40		42	39	37		37	35	33	31
8	63	53	46	42	59	50	44	40	45	40	37		40	37	34		35	33	31	29
9	60	49	43	39	56	47	41	37	42	38	35		38	34	32		34	31	29	28
10	56	46	40	36	53	44	38	35	40	35	32		36	32	30		32	30	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	322647
5°	325254
10°	311631
15°	286743
20°	245105
25°	206323
30°	155958
35°	51814
40°	32944
45°	22415
50°	13087
55°	7849
60°	8610
65°	9485
70°	10855
75°	13249
80°	15769
85°	15709



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.3	6.0
10°-20°	619.3	15.0
20°-30°	693.7	16.8
30°-40°	290.1	7.0
40°-50°	100.8	2.4
50°-60°	36.6	0.9
60°-70°	32.2	0.8
70°-80°	28.7	0.7
80°-90°	12.1	0.3
90°-100°	12.1	0.3
100°-110°	28.7	0.7
110°-120°	32.2	0.8
120°-130°	36.6	0.9
130°-140°	100.8	2.4
140°-150°	290.1	7.0
150°-160°	693.7	16.8
160°-170°	619.3	15.0
170°-180°	246.3	6.0
0°-30°	1559.3	37.9
0°-40°	1849.4	44.9
0°-60°	1986.8	48.2
0°-90°	2059.8	50.0
90°-120°	73.0	1.8
90°-150°	500.5	12.1
90°-180°	2060.0	50.0
0°-180°	4119.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2616	
5°	2627	246
15°	2246	619
25°	1516	694
35°	344	290
45°	128	101
55°	36	37
65°	32	32
75°	28	29
85°	11	11
90°	0	1
95°	11	11
105°	28	29
115°	32	32
125°	36	37
135°	128	101
145°	344	290
155°	1516	694
165°	2246	619
175°	2627	246
180°	2616	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2615.8
1°	2613.4
2°	2615.8
3°	2623.7
4°	2628.5
5°	2626.9
6°	2617.4
7°	2596.8
8°	2564.3
9°	2527.8
10°	2488.1
11°	2446.1
12°	2403.3
13°	2354.9
14°	2303.4
15°	2245.5
16°	2176.5
17°	2104.4
18°	2026.7
19°	1945.8
20°	1867.3
21°	1794.3
22°	1723.8
23°	1654.0
24°	1585.8
25°	1516.0
26°	1455.0
27°	1401.1
28°	1345.6
29°	1244.1
30°	1095.0
32.5°	656.5
35°	344.1
37.5°	263.2
40°	204.6
42.5°	159.4
45°	128.5
47.5°	103.1
50°	68.2
52.5°	40.4
55°	36.5
57.5°	35.7
60°	34.9
62.5°	34.1
65°	32.5



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	30.9
70°	30.1
72.5°	29.3
75°	27.8
77.5°	25.4
80°	22.2
82.5°	17.4
85°	11.1
87.5°	4.8
90°	0.0
92.5°	4.8
95°	11.1
97.5°	17.4
100°	22.2
102.5°	25.4
105°	27.8
107.5°	29.3
110°	30.1
112.5°	30.9
115°	32.5
117.5°	34.1
120°	34.9
122.5°	35.7
125°	36.5
127.5°	40.4
130°	68.2
132.5°	103.1
135°	128.5
137.5°	159.4
140°	204.6
142.5°	263.2
145°	344.1
147.5°	656.5
150°	1095.0
151°	1244.1
152°	1345.6
153°	1401.1
154°	1455.0
155°	1516.0
156°	1585.8
157°	1654.0
158°	1723.8
159°	1794.3
160°	1867.3
161°	1945.8



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CANDELA DISTRIBUTION (continued):

	0°
162°	2026.7
163°	2104.4
164°	2176.5
165°	2245.5
166°	2303.4
167°	2354.9
168°	2403.3
169°	2446.1
170°	2488.1
171°	2527.8
172°	2564.3
173°	2596.8
174°	2617.4
175°	2626.9
176°	2628.5
177°	2623.7
178°	2615.8
179°	2613.4
180°	2615.8

(END OF REPORT)