

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: P220812

Luminaire Tested: **9004-W1-[RW, RI]-LED4097-W-WT-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220812
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-W1-[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: 2059.8 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: Direct

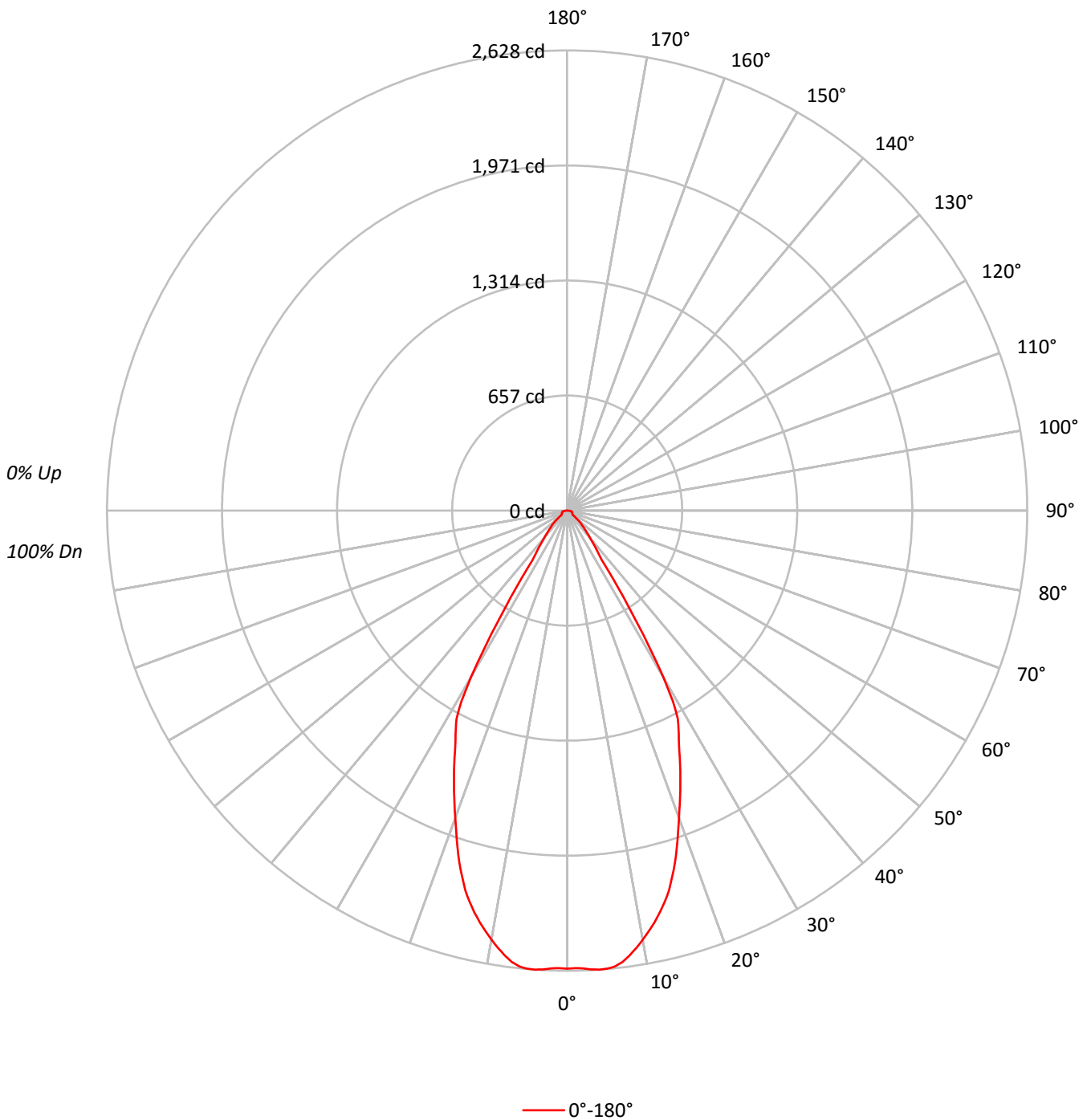
Input Watts (W): 28.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	108	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93
2	107	102	98	95	105	101	97	94	97	94	91	94	92	90	92	89	88	86
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80
4	97	89	84	79	95	88	83	79	86	82	78	84	80	77	82	79	76	75
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70
6	88	79	73	69	86	78	73	68	77	72	68	75	71	68	74	70	67	66
7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62
8	80	70	65	61	79	70	64	60	69	64	60	68	63	60	67	63	60	58
9	76	67	61	57	75	66	61	57	65	60	57	64	60	57	64	59	56	55
10	73	63	58	54	72	63	58	54	62	57	54	61	57	54	61	56	53	52

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	12.0
10°-20°	619.3	30.1
20°-30°	693.7	33.7
30°-40°	290.1	14.1
40°-50°	100.8	4.9
50°-60°	36.6	1.8
60°-70°	32.2	1.6
70°-80°	28.7	1.4
80°-90°	12.1	0.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1559.3	75.7
0°-40°	1849.4	89.8
0°-60°	1986.8	96.5
0°-90°	2059.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2059.8	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	12
90°	0	



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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

(END OF REPORT)