

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: P220786

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220786
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29489)
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-F-WT-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 4000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2140.0 lumens
Efficiency: N/A
Efficacy: 75.1 lumens/watt
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.57
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

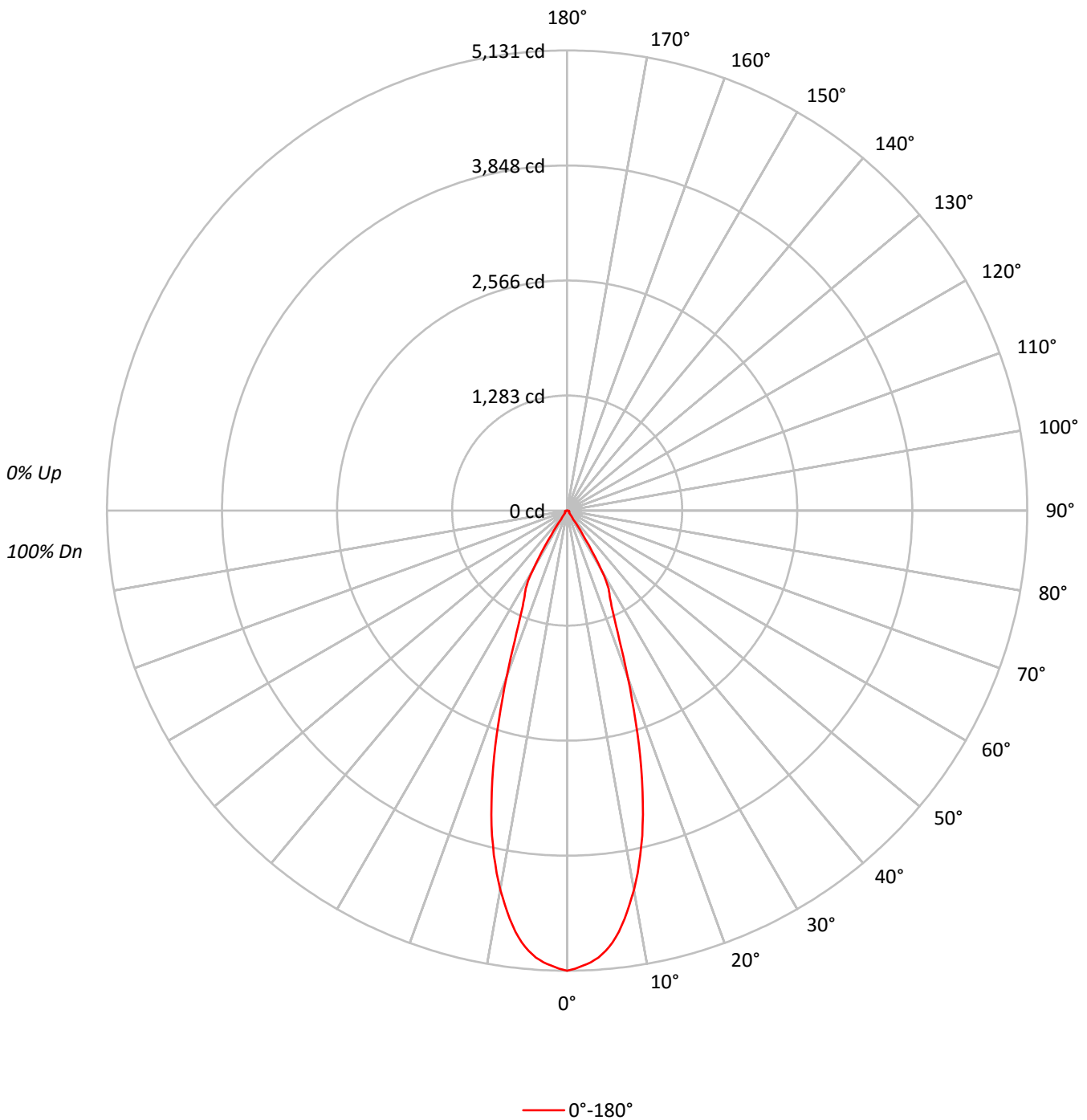
Input Watts (W): 28.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P220786

CATALOG NUMBER: 9004-W1-[RW, RI]-LED4097-F-WT-L3-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P220786

CATALOG NUMBER: 9004-W1-[RW, RI]-LED4097-F-WT-L3-UNV

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	114	111	109	107	111	109	107	105	105	104	102	101	100	99	98	97	96	94
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	91	88	86	85
4	101	94	89	86	99	93	88	85	91	87	84	89	86	83	87	84	82	81
5	97	89	84	81	95	89	84	80	87	83	80	85	82	79	84	81	78	77
6	93	85	80	77	92	85	80	76	83	79	76	82	78	75	81	78	75	74
7	90	82	77	73	88	81	76	73	80	76	73	79	75	72	78	74	72	71
8	86	78	73	70	85	78	73	70	77	73	69	76	72	69	75	72	69	68
9	83	75	70	67	82	75	70	67	74	70	67	73	69	66	72	69	66	65
10	80	72	68	64	80	72	67	64	71	67	64	71	67	64	70	66	64	63

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	632874
5°	610256
10°	537366
15°	414925
20°	259045
25°	159492
30°	109313
35°	17196
40°	7793
45°	5251
50°	5469
55°	5978
60°	6661
65°	7413
70°	8583
75°	10580
80°	12360
85°	12313



TEST NUMBER: P220786

CATALOG NUMBER: 9004-W1-[RW, RI]-LED4097-F-WT-L3-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	450.0	21.0
10°-20°	872.5	40.8
20°-30°	565.0	26.4
30°-40°	145.4	6.8
40°-50°	24.8	1.2
50°-60°	25.1	1.2
60°-70°	25.2	1.2
70°-80°	22.6	1.1
80°-90°	9.5	0.4
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°	1887.5	88.2
0°-40°	2032.9	95.0
0°-60°	2082.7	97.3
0°-90°	2140.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2140.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5131	
5°	4929	450
15°	3249	873
25°	1172	565
35°	114	145
45°	30	25
55°	28	25
65°	25	25
75°	22	23
85°	9	9
90°	0	



TEST NUMBER: P220786

CATALOG NUMBER: 9004-W1-[RW, RI]-LED4097-F-WT-L3-UNV

CANDELA DISTRIBUTION (FULL):

0°	
0°	5130.9
1°	5107.9
2°	5077.8
3°	5042.1
4°	4996.1
5°	4928.7
6°	4843.1
7°	4731.3
8°	4597.3
9°	4448.2
10°	4290.4
11°	4117.6
12°	3927.3
13°	3721.1
14°	3495.1
15°	3249.3
16°	2995.6
17°	2734.7
18°	2473.1
19°	2215.4
20°	1973.5
21°	1752.3
22°	1559.6
23°	1397.1
24°	1269.4
25°	1171.9
26°	1095.0
27°	1035.5
28°	985.6
29°	898.4
30°	767.5
32.5°	383.8
35°	114.2
37.5°	72.9
40°	48.4
42.5°	30.9
45°	30.1
47.5°	29.3
50°	28.5
52.5°	28.5
55°	27.8
57.5°	27.8
60°	27.0
62.5°	26.2
65°	25.4



TEST NUMBER: P220786

CATALOG NUMBER: 9004-W1-[RW, RI]-LED4097-F-WT-L3-UNV

CANDELA DISTRIBUTION (continued):

	0°
67.5°	24.6
70°	23.8
72.5°	23.0
75°	22.2
77.5°	19.8
80°	17.4
82.5°	13.5
85°	8.7
87.5°	4.0
90°	0.0

(END OF REPORT)