

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: P220916

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220916
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-W1-[RW, RI]-LED4097-W-BK-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, WIDE FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 4000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1892.7 lumens
Efficiency: N/A
Efficacy: 66.2 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.83
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

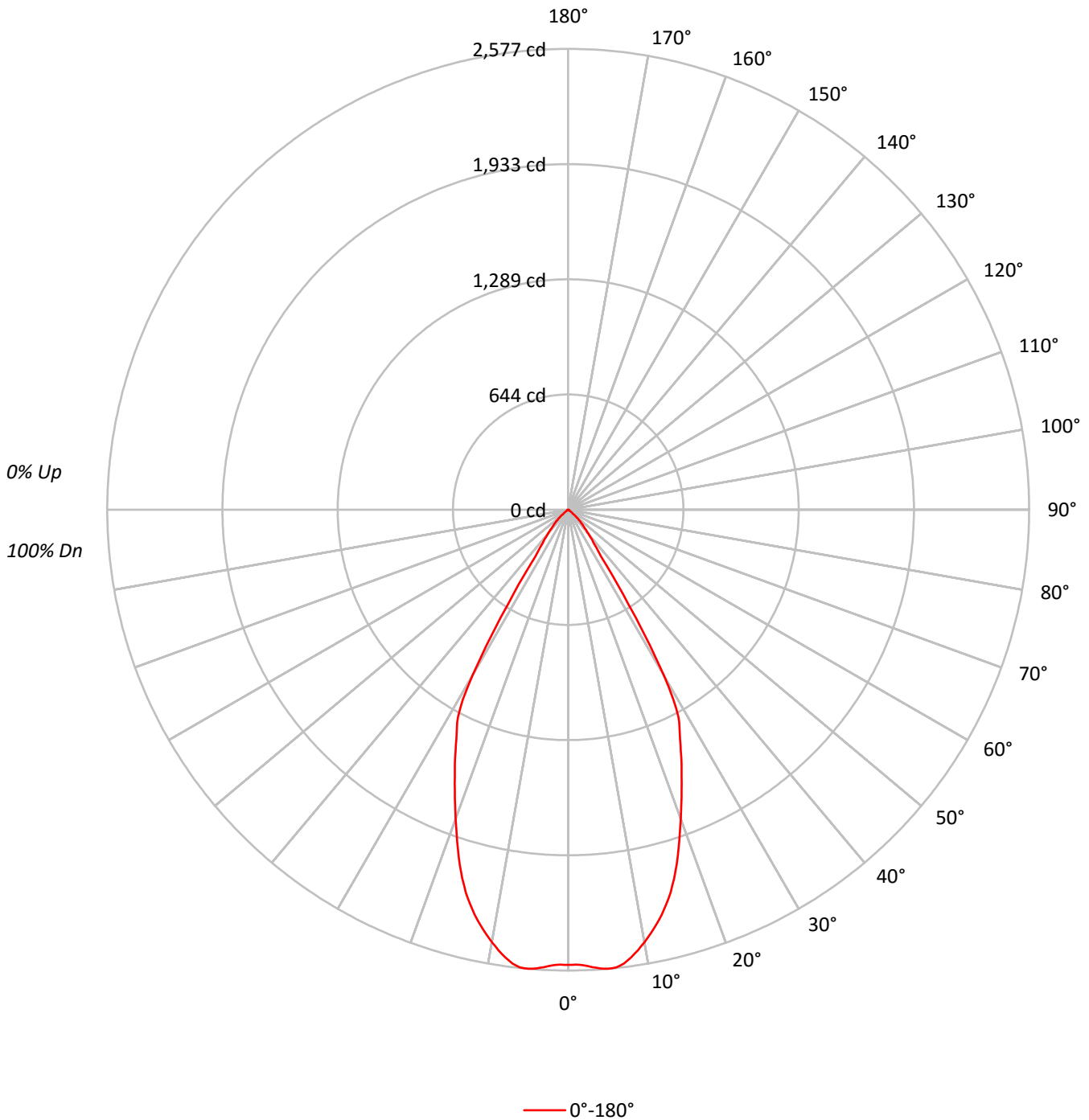
Input Watts (W): 28.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P220916

CATALOG NUMBER: 9004-W1-[RW, RI]-LED4097-W-BK-L3-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P220916

CATALOG NUMBER: 9004-W1-[RW, RI]-LED4097-W-BK-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	103	102	101	100	99	98	97	96	94
2	109	104	100	97	107	102	99	96	99	96	94	96	94	92	94	92	90	89
3	104	98	93	89	102	96	92	89	94	90	87	91	88	86	89	87	85	83
4	99	92	87	83	97	91	86	82	89	85	81	87	83	80	85	82	80	78
5	94	87	81	77	93	86	81	77	84	80	76	82	79	76	81	78	75	73
6	90	82	76	72	89	81	76	72	80	75	72	78	74	71	77	73	71	69
7	86	77	72	68	85	77	71	68	75	71	67	74	70	67	73	69	67	65
8	82	73	68	64	81	73	67	64	72	67	64	71	66	63	70	66	63	62
9	79	70	64	60	78	69	64	60	68	63	60	67	63	60	67	63	60	58
10	75	66	61	57	74	66	61	57	65	60	57	64	60	57	64	60	57	55

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	313939
5°	319063
10°	307560
15°	282695
20°	241351
25°	202771
30°	151785
35°	47643
40°	28210
45°	17147
50°	7158
55°	1204
60°	789
65°	467
70°	289
75°	381
80°	0
85°	0



TEST NUMBER: P220916

CATALOG NUMBER: 9004-W1-[RW, RI]-LED4097-W-BK-L3-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.1	12.8
10°-20°	610.6	32.3
20°-30°	680.1	35.9
30°-40°	271.3	14.3
40°-50°	77.5	4.1
50°-60°	8.6	0.5
60°-70°	1.7	0.1
70°-80°	0.7	0.0
80°-90°	0.0	0.0
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°	1532.8	81.0
0°-40°	1804.1	95.3
0°-60°	1890.2	99.9
0°-90°	1892.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1892.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2545	
5°	2577	242
15°	2214	611
25°	1490	680
35°	316	271
45°	98	78
55°	6	9
65°	2	2
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P220916

CATALOG NUMBER: 9004-W1-[RW, RI]-LED4097-W-BK-L3-UNV

CANDELA DISTRIBUTION (FULL):

0°	
0°	2545.2
1°	2544.4
2°	2549.2
3°	2561.1
4°	2572.2
5°	2576.9
6°	2573.8
7°	2557.1
8°	2528.6
9°	2493.7
10°	2455.6
11°	2414.4
12°	2371.6
13°	2324.0
14°	2271.7
15°	2213.8
16°	2146.4
17°	2074.2
18°	1995.7
19°	1915.7
20°	1838.7
21°	1764.2
22°	1692.9
23°	1623.1
24°	1557.3
25°	1489.9
26°	1426.4
27°	1371.7
28°	1314.6
29°	1213.9
30°	1065.7
32.5°	623.2
35°	316.4
37.5°	233.9
40°	175.2
42.5°	130.0
45°	98.3
47.5°	72.9
50°	37.3
52.5°	9.5
55°	5.6
57.5°	4.0
60°	3.2
62.5°	2.4
65°	1.6



TEST NUMBER: P220916

CATALOG NUMBER: 9004-W1-[RW, RI]-LED4097-W-BK-L3-UNV

CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.8
70°	0.8
72.5°	0.8
75°	0.8
77.5°	0.8
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)