

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: P220836

Luminaire Tested: **9004-W1-[RW, RI]-LED3097-S-BK-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220836
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29491)
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]-LED3097-S-BK-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, SPOT OPTIC, BLACK HOUSING.
Light Source: (1) 3000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1751.8 lumens
Efficiency: N/A
Efficacy: 61.5 lumens/watt
Spacing Criteria (0/90/45): 0.27 / 0.27 / 0.27
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

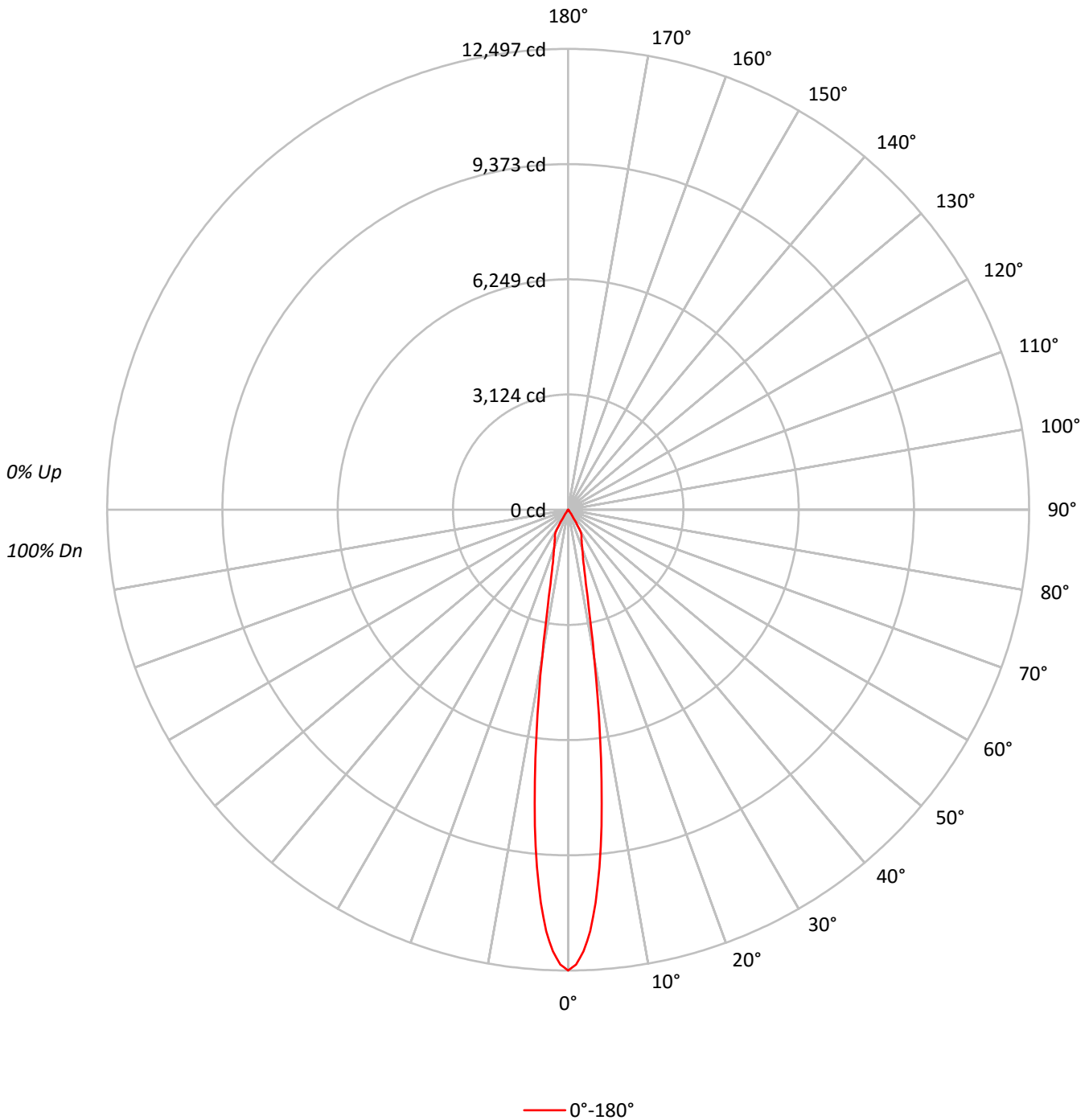
Input Watts (W): 28.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	115	113	111	109	113	111	109	108	107	106	104	103	102	101	100	99	98	97	96	95
2	111	108	105	102	109	106	103	101	103	101	99	100	98	97	97	96	95	95	93	92
3	108	103	99	97	106	102	98	96	99	97	94	97	95	93	95	93	92	92	90	89
4	104	99	95	92	103	98	94	92	96	93	91	94	92	90	92	90	89	88	85	83
5	101	95	91	88	100	95	91	88	93	90	87	91	89	86	90	88	86	88	85	83
6	98	92	88	85	97	91	88	85	90	87	84	89	86	84	88	85	83	86	83	81
7	96	89	85	82	95	89	85	82	87	84	82	86	83	81	86	83	81	83	81	78
8	93	86	82	80	92	86	82	79	85	82	79	84	81	79	83	81	78	81	78	76
9	91	84	80	77	90	84	80	77	83	79	77	82	79	77	81	78	76	79	77	74
10	88	82	78	75	88	81	78	75	81	77	75	80	77	75	79	77	74	77	74	71

AVERAGE LUMINANCE (cd/sqm):

0°	
0°	1541438
5°	1204292
10°	507269
15°	214965
20°	145556
25°	115560
30°	85556
35°	7755
40°	2834
45°	855
50°	672
55°	753
60°	518
65°	409
70°	252
75°	334
80°	497
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	732.2	41.8
10°-20°	517.3	29.5
20°-30°	395.0	22.5
30°-40°	96.8	5.5
40°-50°	5.2	0.3
50°-60°	2.8	0.2
60°-70°	1.4	0.1
70°-80°	0.7	0.0
80°-90°	0.3	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°	1644.5	93.9
0°-40°	1741.4	99.4
0°-60°	1749.4	99.9
0°-90°	1751.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1751.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	12497	
5°	9726	732
15°	1683	517
25°	849	395
35°	52	97
45°	5	5
55°	4	3
65°	1	1
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	12496.9
1°	12336.6
2°	11983.7
3°	11442.3
4°	10684.3
5°	9726.4
6°	8625.3
7°	7415.5
8°	6197.3
9°	5082.0
10°	4050.1
11°	3232.7
12°	2634.2
13°	2210.7
14°	1909.3
15°	1683.4
16°	1509.8
17°	1383.4
18°	1283.2
19°	1189.3
20°	1108.9
22.5°	956.4
25°	849.1
26°	820.2
27°	796.2
28°	772.2
29°	708.7
30°	600.7
32.5°	270.3
35°	51.5
37.5°	28.2
40°	17.6
42.5°	7.8
45°	4.9
47.5°	4.2
50°	3.5
52.5°	3.5
55°	3.5
57.5°	2.8
60°	2.1
62.5°	2.1
65°	1.4
67.5°	0.7
70°	0.7
72.5°	0.7



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CANDELA DISTRIBUTION (continued):

	0°
75°	0.7
77.5°	0.7
80°	0.7
82.5°	0.7
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)