

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: P221118

Luminaire Tested: **9004-W1-FL-LED3597-W-BK-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221118
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29499)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9004-W1-FL-LED3597-W-BK-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, WIDE FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3500K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1724.2 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

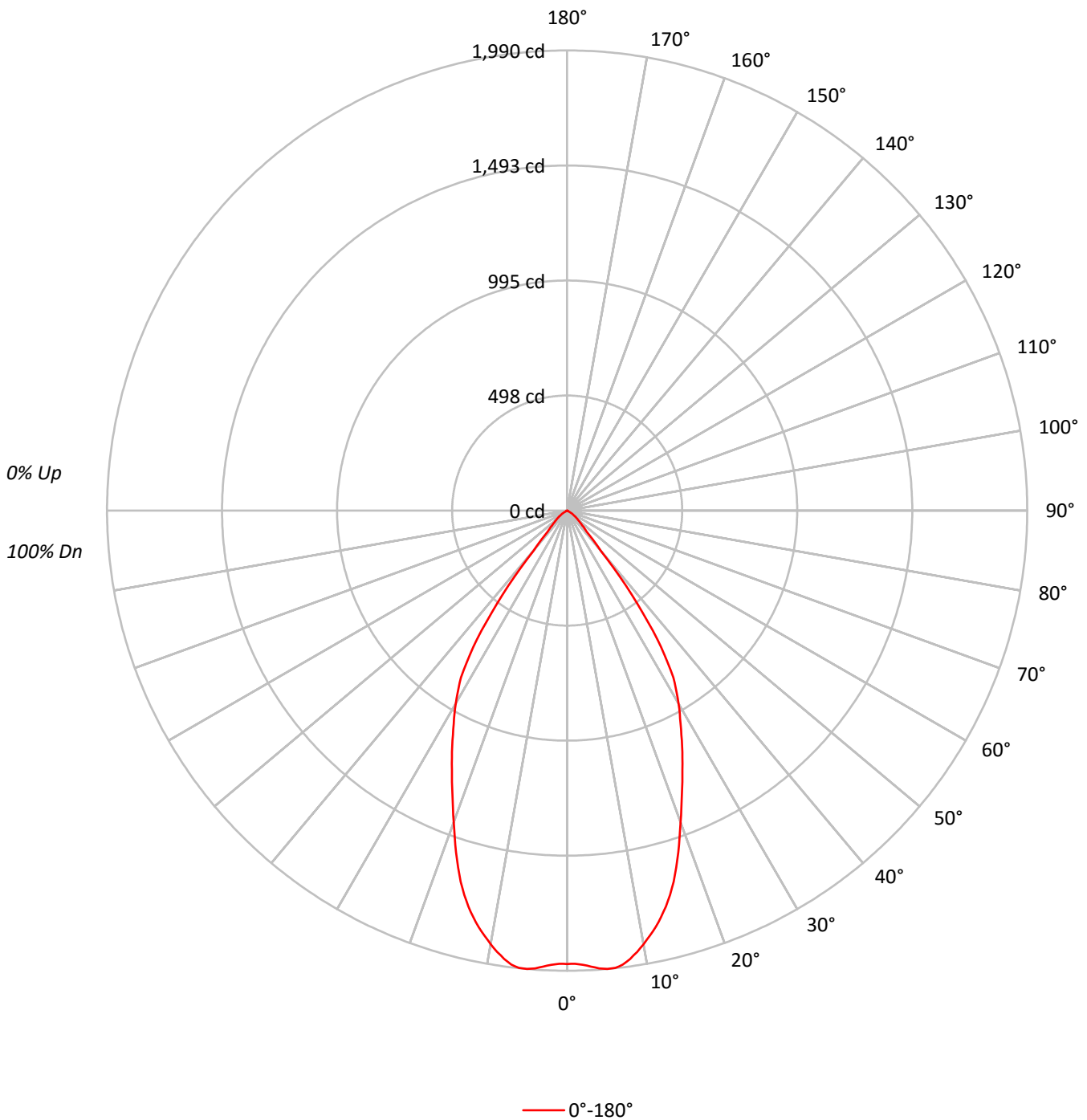
Input Watts (W): 20.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	111	108	106	111	109	106	104	105	103	101		101	99	98		97	96	95	94
2	108	103	99	96	106	101	98	95	98	95	92		95	93	90		92	90	89	87
3	102	96	91	87	100	95	90	86	92	88	85		90	86	84		87	85	82	81
4	97	90	84	80	95	89	83	79	86	82	79		84	81	78		83	79	77	75
5	92	84	78	74	91	83	78	73	81	76	73		80	75	72		78	74	72	70
6	88	79	73	68	86	78	72	68	76	71	68		75	71	67		74	70	67	65
7	83	74	68	64	82	73	68	64	72	67	63		71	66	63		70	66	63	61
8	79	70	64	60	78	69	63	59	68	63	59		67	62	59		66	62	59	57
9	75	66	60	56	74	65	60	56	64	59	56		63	59	55		63	58	55	54
10	72	62	56	53	71	62	56	52	61	56	52		60	55	52		59	55	52	51

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	241856
5°	246383
10°	238548
15°	219690
20°	188269
25°	160553
30°	137300
35°	102633
40°	36422
45°	17025
50°	11264
55°	7570
60°	3799
65°	905
70°	685
75°	572
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.2	10.9
10°-20°	474.9	27.5
20°-30°	542.1	31.4
30°-40°	398.0	23.1
40°-50°	84.5	4.9
50°-60°	31.9	1.8
60°-70°	4.5	0.3
70°-80°	1.2	0.1
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°	1204.2	69.8
0°-40°	1602.1	92.9
0°-60°	1718.5	99.7
0°-90°	1724.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1724.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1961	
5°	1990	187
15°	1720	475
25°	1180	542
35°	682	398
45°	98	84
55°	35	32
65°	3	5
75°	1	1
85°	0	0
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1960.8
1°	1960.2
2°	1965.2
3°	1975.0
4°	1984.3
5°	1989.9
6°	1988.6
7°	1978.1
8°	1957.7
9°	1932.4
10°	1904.6
11°	1873.1
12°	1840.9
13°	1804.5
14°	1764.9
15°	1720.4
16°	1669.8
17°	1613.5
18°	1555.4
19°	1494.3
20°	1434.3
21°	1378.7
22°	1324.9
23°	1274.3
24°	1226.1
25°	1179.7
26°	1134.6
27°	1088.9
28°	1045.0
29°	1004.2
30°	964.0
32.5°	855.9
35°	681.6
37.5°	460.4
40°	226.2
42.5°	127.3
45°	97.6
47.5°	76.6
50°	58.7
52.5°	46.3
55°	35.2
57.5°	25.3
60°	15.4
62.5°	4.3
65°	3.1



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	2.5
70°	1.9
72.5°	1.9
75°	1.2
77.5°	0.6
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)