

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: P220937

Luminaire Tested: **9004-W1-FL-LED3590-S-WT-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220937
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29496)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9004-W1-FL-LED3590-S-WT-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, SPOT OPTIC,
WHITE HOUSING.
Light Source: (1) 3500K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2264.3 lumens
Efficiency: N/A
Efficacy: 79.2 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

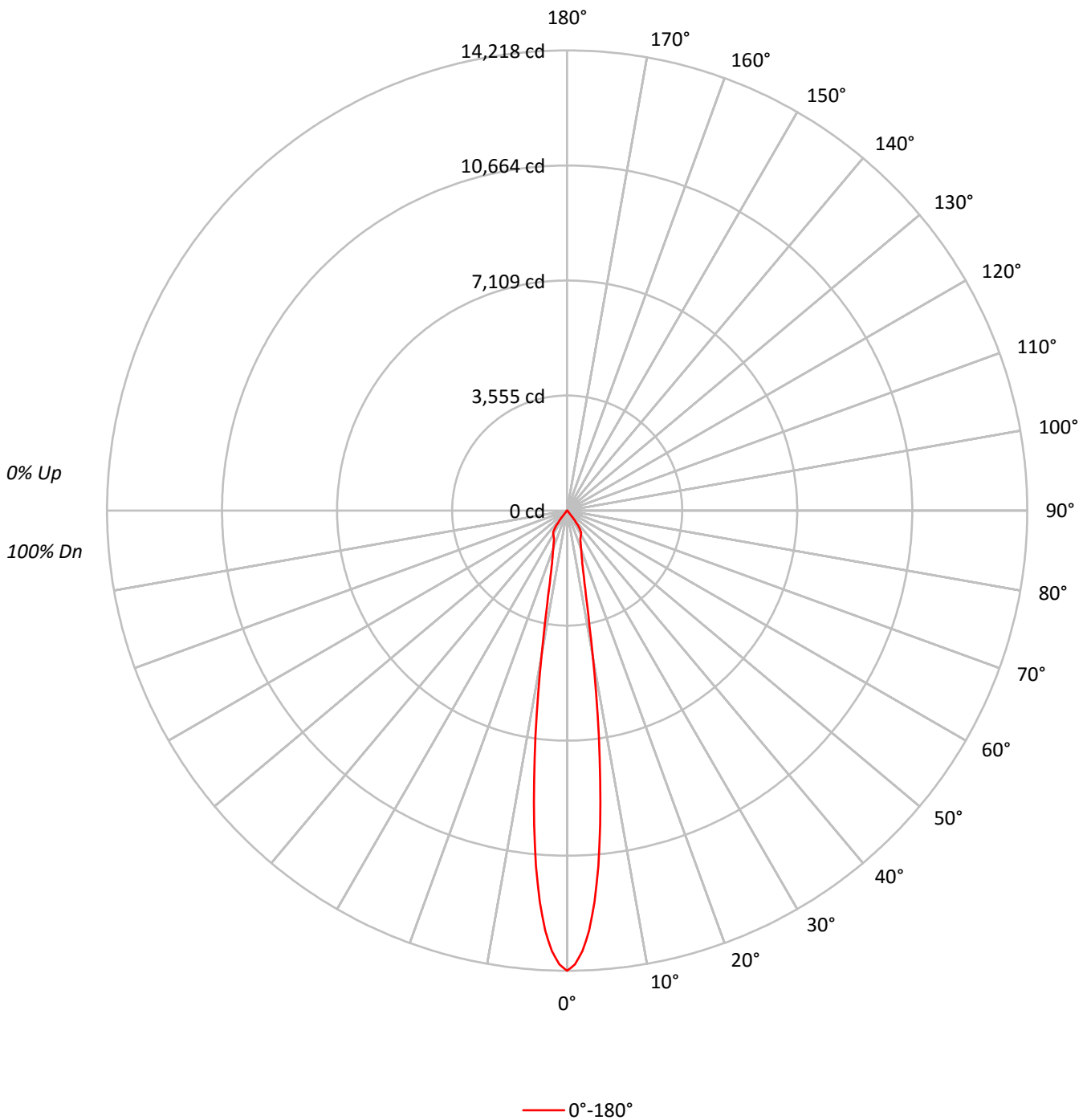
Input Watts (W): 28.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	115	112	110	108	112	110	108	107	106	105	104		103	101	100		99	98	98	96
2	110	106	103	100	108	105	102	99	102	99	97		99	97	95		96	95	93	92
3	106	101	97	94	104	100	96	93	97	94	92		95	93	90		93	91	89	88
4	102	97	92	89	101	95	91	88	93	90	87		92	89	86		90	87	85	84
5	99	92	88	84	97	91	87	84	90	86	83		88	85	83		87	84	82	81
6	95	89	84	81	94	88	83	80	86	83	80		85	82	79		84	81	79	78
7	92	85	80	77	91	85	80	77	83	79	77		82	79	76		81	78	76	75
8	89	82	77	74	88	82	77	74	81	77	74		80	76	74		79	76	73	72
9	87	79	75	72	86	79	74	71	78	74	71		77	74	71		76	73	71	70
10	84	77	72	69	83	76	72	69	76	72	69		75	71	69		74	71	69	68

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1753790
5°	1365154
10°	568578
15°	240402
20°	164983
25°	131687
30°	121690
35°	99562
40°	20948
45°	4797
50°	1708
55°	1398
60°	789
65°	467
70°	289
75°	381
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	828.6	36.6
10°-20°	580.7	25.6
20°-30°	457.7	20.2
30°-40°	360.3	15.9
40°-50°	29.1	1.3
50°-60°	5.7	0.2
60°-70°	1.5	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°	1867.0	82.5
0°-40°	2227.3	98.4
0°-60°	2262.1	99.9
0°-90°	2264.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2264.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14218	
5°	11026	829
15°	1883	581
25°	968	458
35°	661	360
45°	28	29
55°	6	6
65°	2	1
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	14218.5
1°	14022.8
2°	13616.3
3°	12985.8
4°	12123.3
5°	11025.6
6°	9758.1
7°	8388.8
8°	7045.4
9°	5693.0
10°	4539.6
11°	3618.9
12°	2951.2
13°	2478.3
14°	2135.6
15°	1882.6
16°	1692.6
17°	1553.6
18°	1447.7
19°	1346.7
20°	1256.9
21°	1182.6
22°	1116.3
23°	1058.1
24°	1007.2
25°	967.6
26°	937.7
27°	915.0
28°	893.2
29°	873.8
30°	854.4
32.5°	805.9
35°	661.2
37.5°	394.5
40°	130.1
42.5°	38.8
45°	27.5
47.5°	19.4
50°	8.9
52.5°	8.1
55°	6.5
57.5°	4.8
60°	3.2
62.5°	1.6
65°	1.6



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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)