

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: P220729

Luminaire Tested: **9004-W1-[RW, RI]-LED3590-S-WT-L3-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220729  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29487)  
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]-LED3590-S-WT-L3-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED 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: 2135.0 lumens  
Efficiency: N/A  
Efficacy: 74.6 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

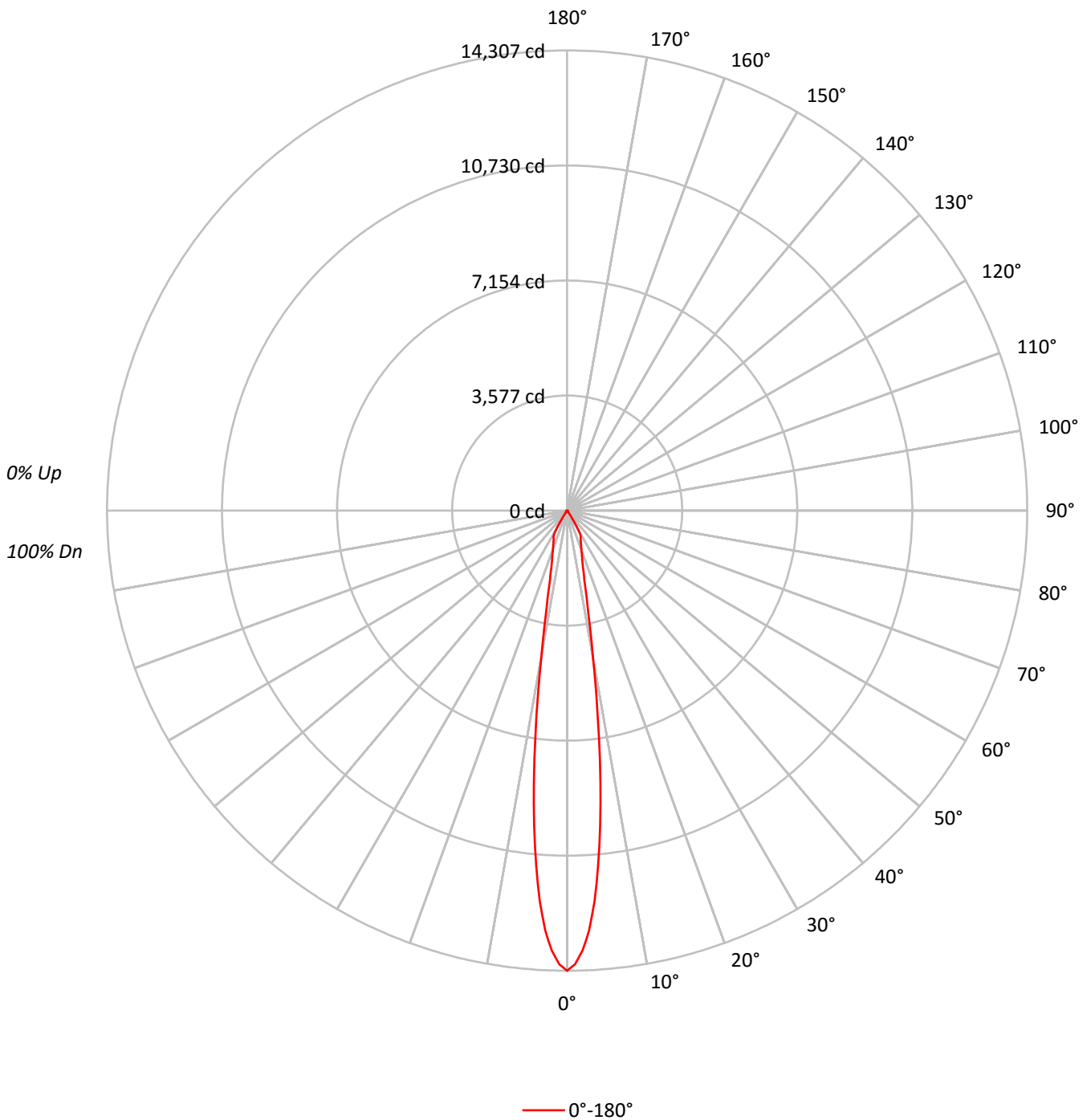
Input Watts (W): 28.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P220729

CATALOG NUMBER: 9004-W1-[RW, RI]-LED3590-S-WT-L3-UNV

### Luminous Intensity Polar Plot





TEST NUMBER: P220729

CATALOG NUMBER: 9004-W1-[RW, RI]-LED3590-S-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	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95
2	110	106	103	100	108	104	101	99	101	99	97	98	96	94	96	94	93	91
3	106	101	97	94	104	100	96	93	97	94	91	95	92	90	93	90	89	87
4	102	96	92	89	101	95	91	88	93	90	87	92	89	86	90	87	85	84
5	99	93	88	85	98	92	88	84	90	86	84	89	85	83	87	84	82	81
6	96	89	85	81	95	88	84	81	87	83	81	86	83	80	85	82	80	78
7	93	86	82	78	92	86	81	78	84	81	78	83	80	77	82	79	77	76
8	90	83	79	76	89	83	79	76	82	78	75	81	78	75	80	77	75	74
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72
10	86	78	74	71	85	78	74	71	77	74	71	77	73	71	76	73	71	70

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	1764755
5°	1371358
10°	581128
15°	248447
20°	169656
25°	135199
30°	101081
35°	13386
40°	7165
45°	5216
50°	5584
55°	6086
60°	6784
65°	7793
70°	9052
75°	10771
80°	12644
85°	12596



TEST NUMBER: P220729

CATALOG NUMBER: 9004-W1-[RW, RI]-LED3590-S-WT-L3-UNV

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	835.8	39.1
10°-20°	598.9	28.1
20°-30°	462.2	21.6
30°-40°	128.1	6.0
40°-50°	24.8	1.2
50°-60°	25.4	1.2
60°-70°	26.4	1.2
70°-80°	23.6	1.1
80°-90°	9.9	0.5
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°	1896.9	88.8
0°-40°	2024.9	94.8
0°-60°	2075.1	97.2
0°-90°	2135.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2135.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	14307	
5°	11076	836
15°	1946	599
25°	993	462
35°	89	128
45°	30	25
55°	28	25
65°	27	26
75°	23	24
85°	9	10
90°	0	



TEST NUMBER: P220729

CATALOG NUMBER: 9004-W1-[RW, RI]-LED3590-S-WT-L3-UNV

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	14307.4
1°	14106.9
2°	13691.5
3°	13060.1
4°	12182.3
5°	11075.7
6°	9826.0
7°	8506.8
8°	7078.5
9°	5783.6
10°	4639.8
11°	3738.5
12°	3054.7
13°	2560.0
14°	2210.0
15°	1945.6
16°	1749.2
17°	1602.1
18°	1486.5
19°	1385.5
20°	1292.5
22.5°	1119.5
25°	993.4
26°	961.1
27°	933.6
28°	900.5
29°	828.5
30°	709.7
32.5°	341.1
35°	88.9
37.5°	57.4
40°	44.5
42.5°	33.1
45°	29.9
47.5°	29.1
50°	29.1
52.5°	28.3
55°	28.3
57.5°	28.3
60°	27.5
62.5°	27.5
65°	26.7
67.5°	25.9
70°	25.1
72.5°	24.2



TEST NUMBER: P220729

CATALOG NUMBER: 9004-W1-[RW, RI]-LED3590-S-WT-L3-UNV

**CANDELA DISTRIBUTION (continued):**

	0°
75°	22.6
77.5°	21.0
80°	17.8
82.5°	14.5
85°	8.9
87.5°	4.0
90°	0.0

(END OF REPORT)