

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: P221042

Luminaire Tested: **9004-W1-FL-LED2790-S-BK-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221042
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-LED2790-S-BK-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, SPOT OPTIC, BLACK HOUSING.
Light Source: (1) 2700K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

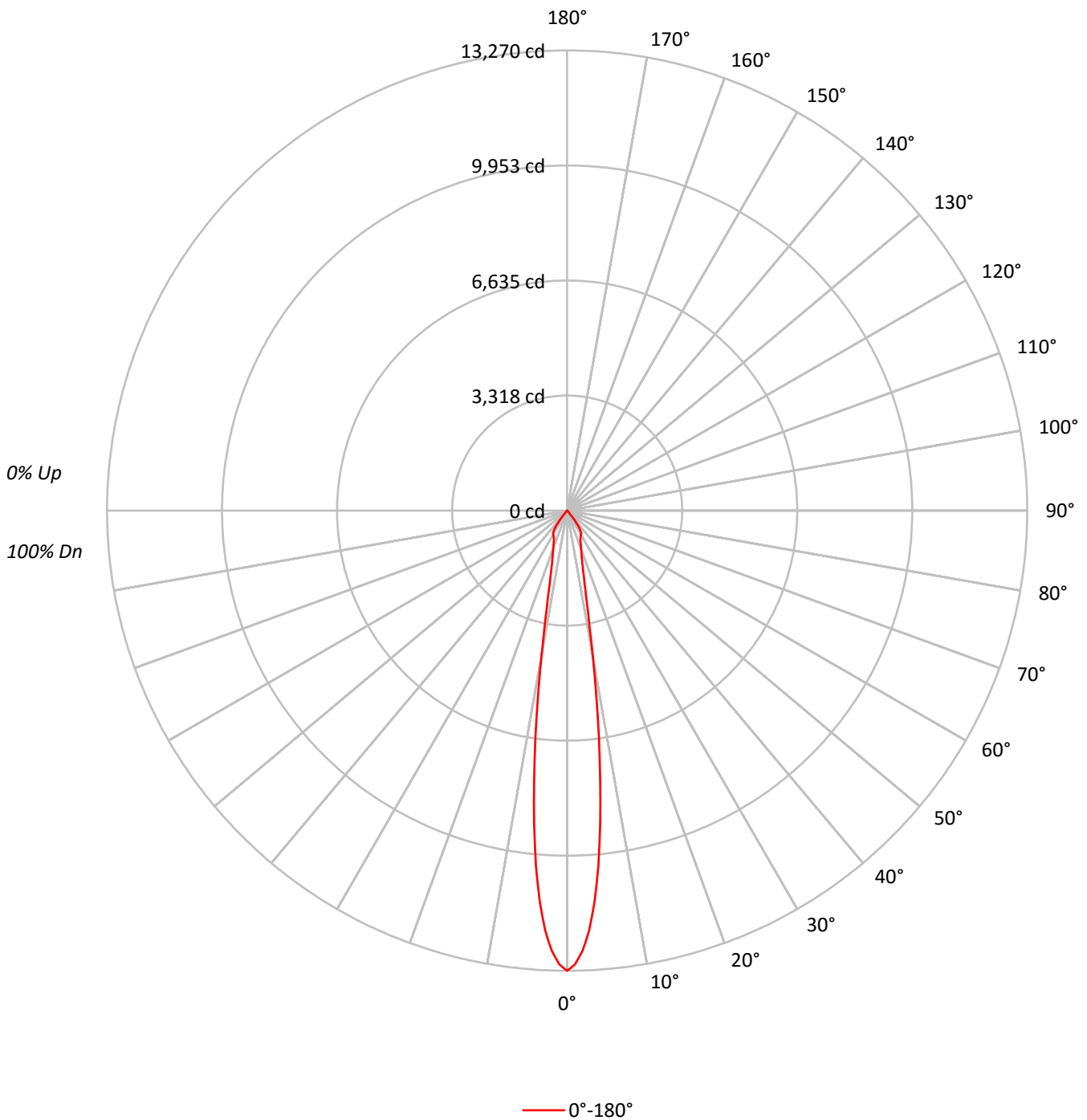
Lumens per Lamp: N/A
Luminaire Lumens: 2113.4 lumens
Efficiency: N/A
Efficacy: 73.9 lumens/watt
Spacing Criteria (0/90/45): 0.27 / 0.27 / 0.27
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P221042
CATALOG NUMBER: 9004-W1-FL-LED2790-S-BK-L3-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P221042

CATALOG NUMBER: 9004-W1-FL-LED2790-S-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	115	112	110	108	112	110	108	107	106	105	103		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°	1636858
5°	1274137
10°	530665
15°	224376
20°	153983
25°	122909
30°	113571
35°	92921
40°	19563
45°	4483
50°	1593
55°	1290
60°	740
65°	438
70°	289
75°	381
80°	0
85°	0



TEST NUMBER: P221042

CATALOG NUMBER: 9004-W1-FL-LED2790-S-BK-L3-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	773.4	36.6
10°-20°	542.0	25.6
20°-30°	427.2	20.2
30°-40°	336.3	15.9
40°-50°	27.2	1.3
50°-60°	5.3	0.2
60°-70°	1.4	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°	1742.5	82.4
0°-40°	2078.8	98.4
0°-60°	2111.3	99.9
0°-90°	2113.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2113.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	13270	
5°	10290	773
15°	1757	542
25°	903	427
35°	617	336
45°	26	27
55°	6	5
65°	2	1
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P221042

CATALOG NUMBER: 9004-W1-FL-LED2790-S-BK-L3-UNV

CANDELA DISTRIBUTION (FULL):

0°	
0°	13270.5
1°	13088.0
2°	12708.5
3°	12120.0
4°	11315.0
5°	10290.5
6°	9107.6
7°	7829.5
8°	6575.7
9°	5313.5
10°	4236.9
11°	3377.6
12°	2754.4
13°	2313.1
14°	1993.2
15°	1757.1
16°	1579.8
17°	1450.0
18°	1351.2
19°	1256.9
20°	1173.1
21°	1103.7
22°	1041.9
23°	987.6
24°	940.0
25°	903.1
26°	875.1
27°	854.0
28°	833.7
29°	815.5
30°	797.4
32.5°	752.2
35°	617.1
37.5°	368.2
40°	121.5
42.5°	36.2
45°	25.7
47.5°	18.1
50°	8.3
52.5°	7.5
55°	6.0
57.5°	4.5
60°	3.0
62.5°	1.5
65°	1.5



TEST NUMBER: P221042

CATALOG NUMBER: 9004-W1-FL-LED2790-S-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)