

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: P221070

Luminaire Tested: **9004-W1-FL-LED3590-M-BK-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221070
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29497)
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-M-BK-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, MEDIUM FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3500K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

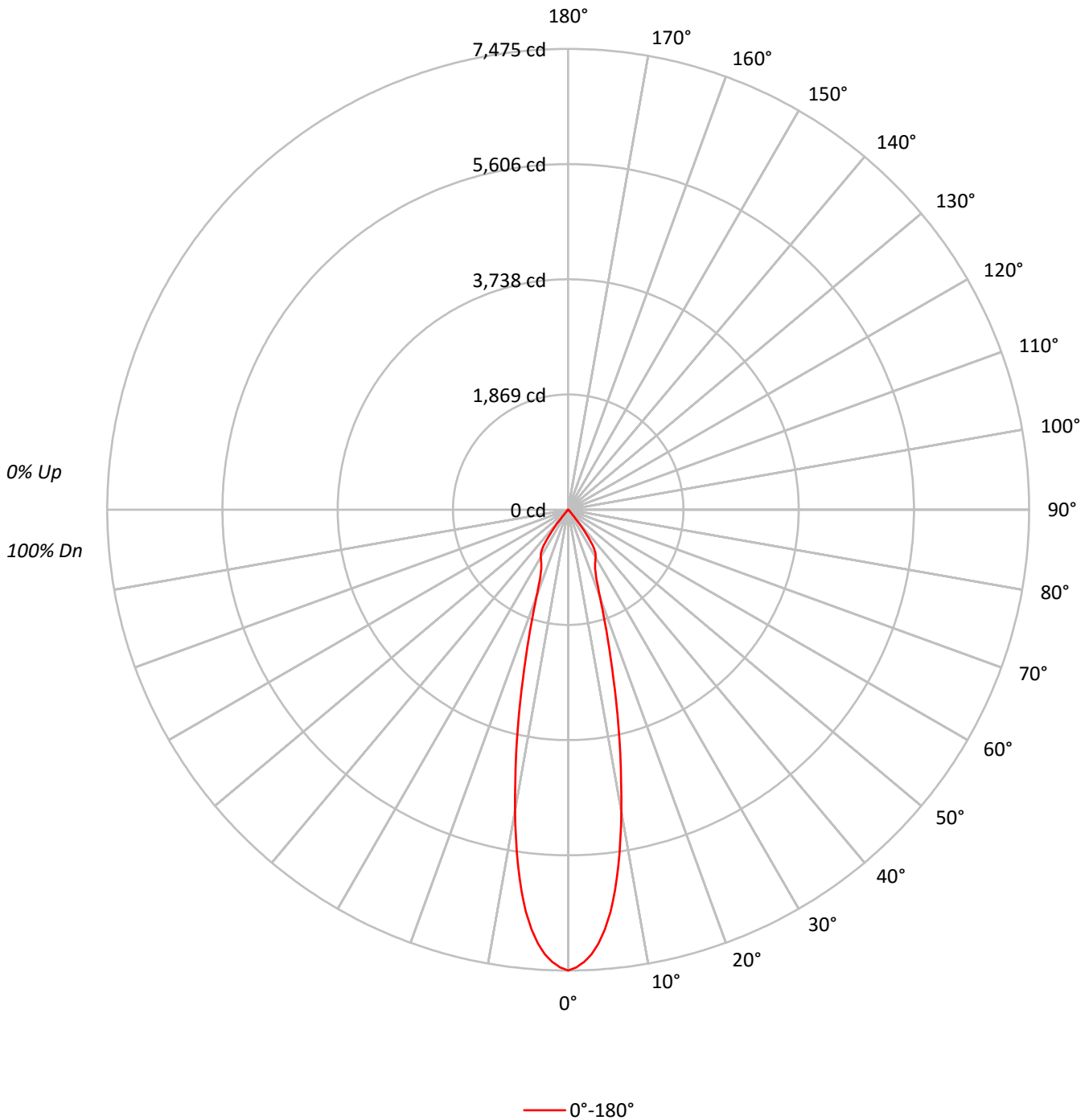
Lumens per Lamp: N/A
Luminaire Lumens: 2284.5 lumens
Efficiency: N/A
Efficacy: 79.9 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 28.6
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	112	110	108	112	110	108	106	106	104	103		102	101	100		99	98	97	95
2	110	106	102	99	108	104	101	98	101	98	96		98	96	94		95	94	92	91
3	106	100	96	93	104	99	95	92	96	93	90		94	91	89		92	90	88	86
4	101	95	91	87	100	94	90	86	92	88	85		90	87	85		88	86	84	82
5	97	91	86	82	96	90	85	82	88	84	81		86	83	80		85	82	80	78
6	94	86	82	78	92	86	81	78	84	80	77		83	79	77		82	79	76	75
7	90	83	78	74	89	82	77	74	81	77	74		80	76	73		79	75	73	72
8	87	79	74	71	86	79	74	71	78	74	71		77	73	70		76	73	70	69
9	84	76	71	68	83	76	71	68	75	71	68		74	70	67		73	70	67	66
10	81	73	68	65	80	73	68	65	72	68	65		71	68	65		71	67	65	64

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	921959
5°	846015
10°	621620
15°	361893
20°	197352
25°	140261
30°	126404
35°	99562
40°	22124
45°	6070
50°	2015
55°	1226
60°	789
65°	467
70°	289
75°	381
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	591.9	25.9
10°-20°	789.9	34.6
20°-30°	494.0	21.6
30°-40°	366.4	16.0
40°-50°	34.1	1.5
50°-60°	5.5	0.2
60°-70°	1.9	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°	1875.9	82.1
0°-40°	2242.3	98.2
0°-60°	2281.9	99.9
0°-90°	2284.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2284.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7475	
5°	6833	592
15°	2834	790
25°	1031	494
35°	661	366
45°	35	34
55°	6	5
65°	2	2
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	7474.6
1°	7425.3
2°	7341.2
3°	7220.0
4°	7053.5
5°	6832.8
6°	6558.8
7°	6228.2
8°	5842.6
9°	5412.6
10°	4963.1
11°	4503.2
12°	4057.8
13°	3623.7
14°	3211.5
15°	2834.0
16°	2490.5
17°	2190.6
18°	1921.4
19°	1693.4
20°	1503.5
21°	1353.1
22°	1232.7
23°	1143.8
24°	1078.3
25°	1030.6
26°	995.1
27°	964.3
28°	936.0
29°	911.8
30°	887.5
32.5°	820.5
35°	661.2
37.5°	400.1
40°	137.4
42.5°	47.7
45°	34.8
47.5°	25.1
50°	10.5
52.5°	8.1
55°	5.7
57.5°	4.0
60°	3.2
62.5°	2.4
65°	1.6



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	1.6
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)