

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: P222058

Luminaire Tested: **9004-W2-FL-LED3590-F-BK-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222058
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29498)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9004-W2-FL-LED3590-F-BK-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3500K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

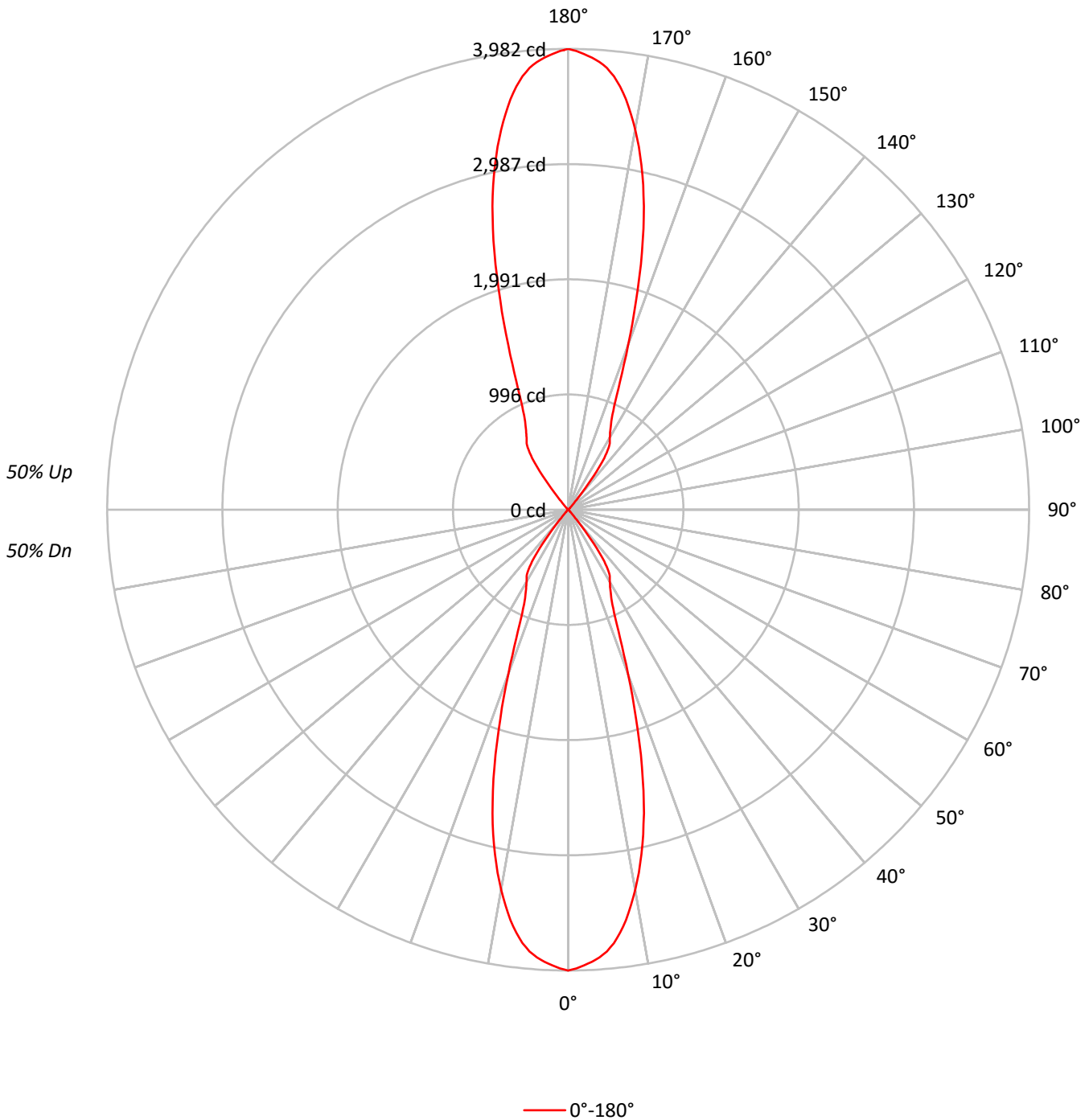
Lumens per Lamp: N/A
Luminaire Lumens: 3582.3 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.56
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 40.2
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	107	107	107	107	99	99	99	99	83	83	83		69	69	69		56	56	56	50
1	100	97	94	92	93	90	88	86	77	75	74		65	64	63		54	53	53	48
2	94	89	84	80	87	83	79	76	71	69	66		61	59	58		51	50	49	45
3	88	81	76	71	82	76	71	68	66	63	60		57	55	53		49	48	46	43
4	83	75	69	64	77	70	65	61	62	58	55		54	51	49		47	45	44	41
5	78	69	63	58	73	65	60	56	58	54	51		51	48	46		45	43	41	38
6	74	64	58	54	69	61	55	52	54	50	47		48	45	43		43	41	39	37
7	70	60	54	50	65	57	52	48	51	47	44		46	43	41		41	39	37	35
8	66	56	50	46	62	54	48	44	48	44	41		44	41	38		39	37	35	33
9	63	53	47	43	59	50	45	42	46	42	39		41	38	36		37	35	34	32
10	60	50	44	40	56	48	43	39	44	39	37		40	37	34		36	34	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	491224
5°	474404
10°	417691
15°	320838
20°	198441
25°	122950
30°	102462
35°	82019
40°	17889
45°	3803
50°	710
55°	409
60°	296
65°	175
70°	216
75°	286
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.9	9.8
10°-20°	673.8	18.8
20°-30°	442.5	12.4
30°-40°	298.4	8.3
40°-50°	23.5	0.7
50°-60°	1.7	0.0
60°-70°	0.8	0.0
70°-80°	0.6	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.6	0.0
110°-120°	0.8	0.0
120°-130°	1.7	0.0
130°-140°	23.5	0.7
140°-150°	298.4	8.3
150°-160°	442.5	12.4
160°-170°	673.8	18.8
170°-180°	349.9	9.8
0°-30°	1466.2	40.9
0°-40°	1764.6	49.3
0°-60°	1789.8	50.0
0°-90°	1791.1	50.0
90°-120°	1.4	0.0
90°-150°	324.9	9.1
90°-180°	1791.0	50.0
0°-180°	3582.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3982	
5°	3832	350
15°	2512	674
25°	903	442
35°	545	298
45°	22	24
55°	2	2
65°	1	1
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	1	1
125°	2	2
135°	22	24
145°	545	298
155°	903	442
165°	2512	674
175°	3832	350
180°	3982	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3982.5
1°	3965.0
2°	3939.5
3°	3911.4
4°	3878.3
5°	3831.5
6°	3767.3
7°	3683.7
8°	3580.7
9°	3461.5
10°	3334.9
11°	3195.7
12°	3044.1
13°	2878.8
14°	2702.8
15°	2512.5
16°	2312.3
17°	2105.1
18°	1898.0
19°	1703.3
20°	1511.8
21°	1345.8
22°	1196.7
23°	1073.2
24°	977.7
25°	903.4
26°	849.8
27°	808.6
28°	773.7
29°	745.0
30°	719.4
32.5°	665.7
35°	544.7
37.5°	323.8
40°	111.1
42.5°	33.1
45°	21.8
47.5°	13.7
50°	3.7
52.5°	1.9
55°	1.9
57.5°	1.2
60°	1.2
62.5°	1.2
65°	0.6



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.6
70°	0.6
72.5°	0.6
75°	0.6
77.5°	0.6
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.6
105°	0.6
107.5°	0.6
110°	0.6
112.5°	0.6
115°	0.6
117.5°	1.2
120°	1.2
122.5°	1.2
125°	1.9
127.5°	1.9
130°	3.7
132.5°	13.7
135°	21.8
137.5°	33.1
140°	111.1
142.5°	323.8
145°	544.7
147.5°	665.7
150°	719.4
151°	745.0
152°	773.7
153°	808.6
154°	849.8
155°	903.4
156°	977.7
157°	1073.2
158°	1196.7
159°	1345.8
160°	1511.8
161°	1703.3



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CANDELA DISTRIBUTION (continued):

	0°
162°	1898.0
163°	2105.1
164°	2312.3
165°	2512.5
166°	2702.8
167°	2878.8
168°	3044.1
169°	3195.7
170°	3334.9
171°	3461.5
172°	3580.7
173°	3683.7
174°	3767.3
175°	3831.5
176°	3878.3
177°	3911.4
178°	3939.5
179°	3965.0
180°	3982.5

(END OF REPORT)