

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: P222063

Luminaire Tested: **9004-W2-FL-LED3590-M-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222063
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-W2-FL-LED3590-M-BK-L1-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

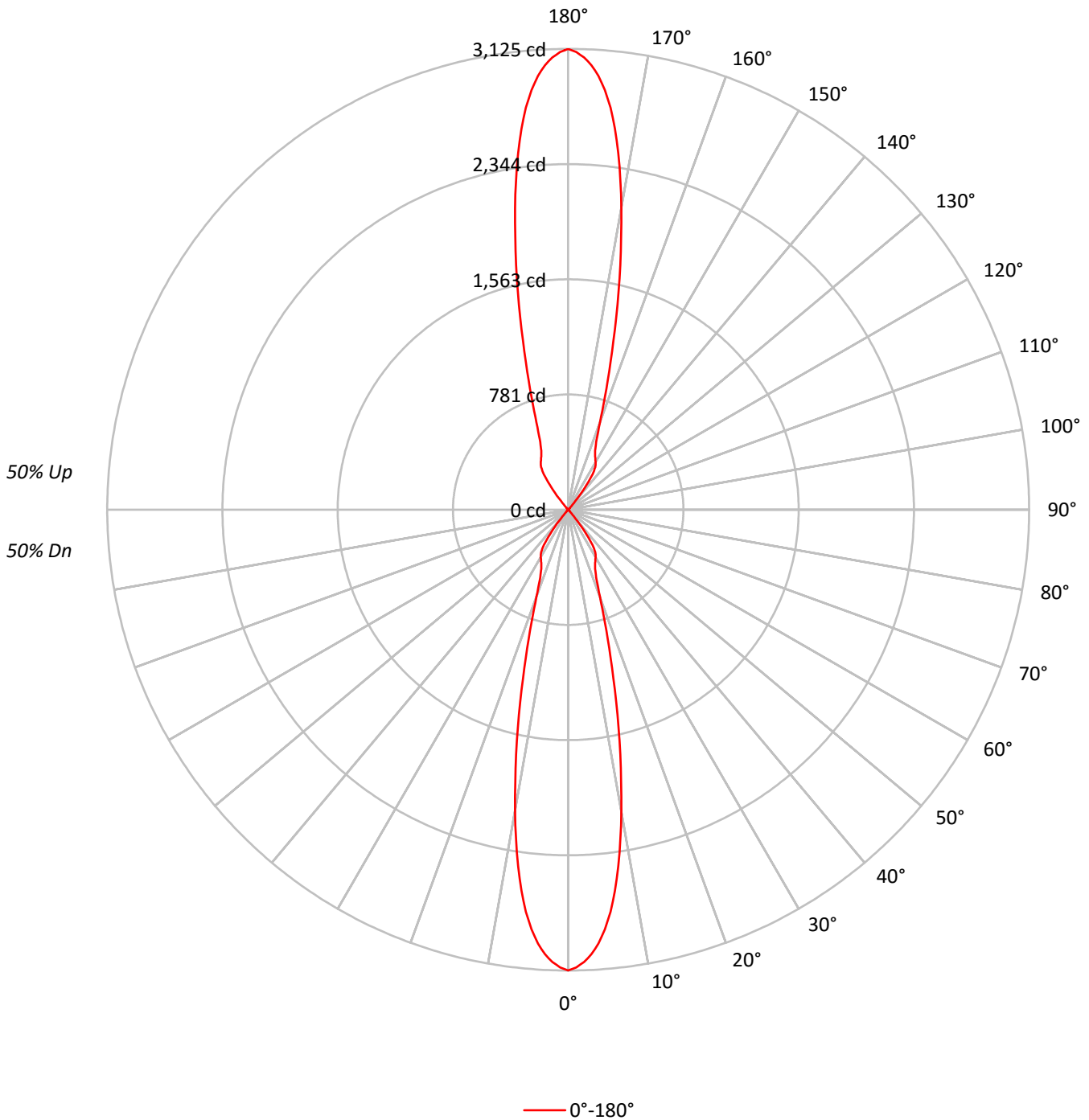
Lumens per Lamp: N/A
Luminaire Lumens: 1910.0 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 19.7
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	101	97	94	92	93	90	88	86	77	76	74		65	64	63		54	53	53	48
2	94	89	84	81	87	83	79	76	72	69	67		61	59	58		52	51	50	45
3	89	82	76	72	82	76	72	68	67	63	61		58	56	54		49	48	47	43
4	83	75	69	65	78	71	66	62	62	59	56		55	52	50		47	46	44	41
5	79	70	64	59	73	66	61	57	59	55	52		52	49	47		45	43	42	39
6	74	65	59	55	70	62	56	52	55	51	48		49	46	44		43	41	40	38
7	70	61	55	51	66	58	53	49	52	48	45		47	44	42		42	40	38	36
8	67	57	51	47	63	55	49	46	49	45	42		45	42	39		40	38	36	34
9	64	54	48	44	60	52	46	43	47	43	40		43	40	38		38	36	35	33
10	61	51	45	42	57	49	44	40	45	41	38		41	38	36		37	35	33	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	385418
5°	353670
10°	259865
15°	151282
20°	82498
25°	58631
30°	52841
35°	41620
40°	9242
45°	2529
50°	844
55°	516
60°	345
65°	204
70°	108
75°	143
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.4	13.0
10°-20°	330.2	17.3
20°-30°	206.5	10.8
30°-40°	153.2	8.0
40°-50°	14.3	0.7
50°-60°	2.3	0.1
60°-70°	0.8	0.0
70°-80°	0.3	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.3	0.0
110°-120°	0.8	0.0
120°-130°	2.3	0.1
130°-140°	14.3	0.7
140°-150°	153.2	8.0
150°-160°	206.5	10.8
160°-170°	330.2	17.3
170°-180°	247.4	13.0
0°-30°	784.2	41.1
0°-40°	937.4	49.1
0°-60°	953.9	49.9
0°-90°	955.0	50.0
90°-120°	1.1	0.1
90°-150°	170.8	8.9
90°-180°	955.0	50.0
0°-180°	1910.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3125	
5°	2856	247
15°	1185	330
25°	431	207
35°	276	153
45°	14	14
55°	2	2
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	1	1
125°	2	2
135°	14	14
145°	276	153
155°	431	207
165°	1185	330
175°	2856	247
180°	3125	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3124.7
1°	3104.1
2°	3068.9
3°	3018.2
4°	2948.6
5°	2856.4
6°	2741.8
7°	2603.6
8°	2442.4
9°	2262.7
10°	2074.8
11°	1882.5
12°	1696.3
13°	1514.9
14°	1342.5
15°	1184.7
16°	1041.1
17°	915.7
18°	803.2
19°	707.9
20°	628.5
21°	565.7
22°	515.3
23°	478.1
24°	450.8
25°	430.8
26°	416.0
27°	403.1
28°	391.3
29°	381.2
30°	371.0
32.5°	343.0
35°	276.4
37.5°	167.3
40°	57.4
42.5°	19.9
45°	14.5
47.5°	10.5
50°	4.4
52.5°	3.4
55°	2.4
57.5°	1.7
60°	1.4
62.5°	1.0
65°	0.7



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.7
70°	0.3
72.5°	0.3
75°	0.3
77.5°	0.3
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°	0.3
105°	0.3
107.5°	0.3
110°	0.3
112.5°	0.7
115°	0.7
117.5°	1.0
120°	1.4
122.5°	1.7
125°	2.4
127.5°	3.4
130°	4.4
132.5°	10.5
135°	14.5
137.5°	19.9
140°	57.4
142.5°	167.3
145°	276.4
147.5°	343.0
150°	371.0
151°	381.2
152°	391.3
153°	403.1
154°	416.0
155°	430.8
156°	450.8
157°	478.1
158°	515.3
159°	565.7
160°	628.5
161°	707.9



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CANDELA DISTRIBUTION (continued):

	0°
162°	803.2
163°	915.7
164°	1041.1
165°	1184.7
166°	1342.5
167°	1514.9
168°	1696.3
169°	1882.5
170°	2074.8
171°	2262.7
172°	2442.4
173°	2603.6
174°	2741.8
175°	2856.4
176°	2948.6
177°	3018.2
178°	3068.9
179°	3104.1
180°	3124.7

(END OF REPORT)