

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: P222083

Luminaire Tested: **9004-W2-FL-LED3597-F-BK-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222083
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-LED3597-F-BK-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3500K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

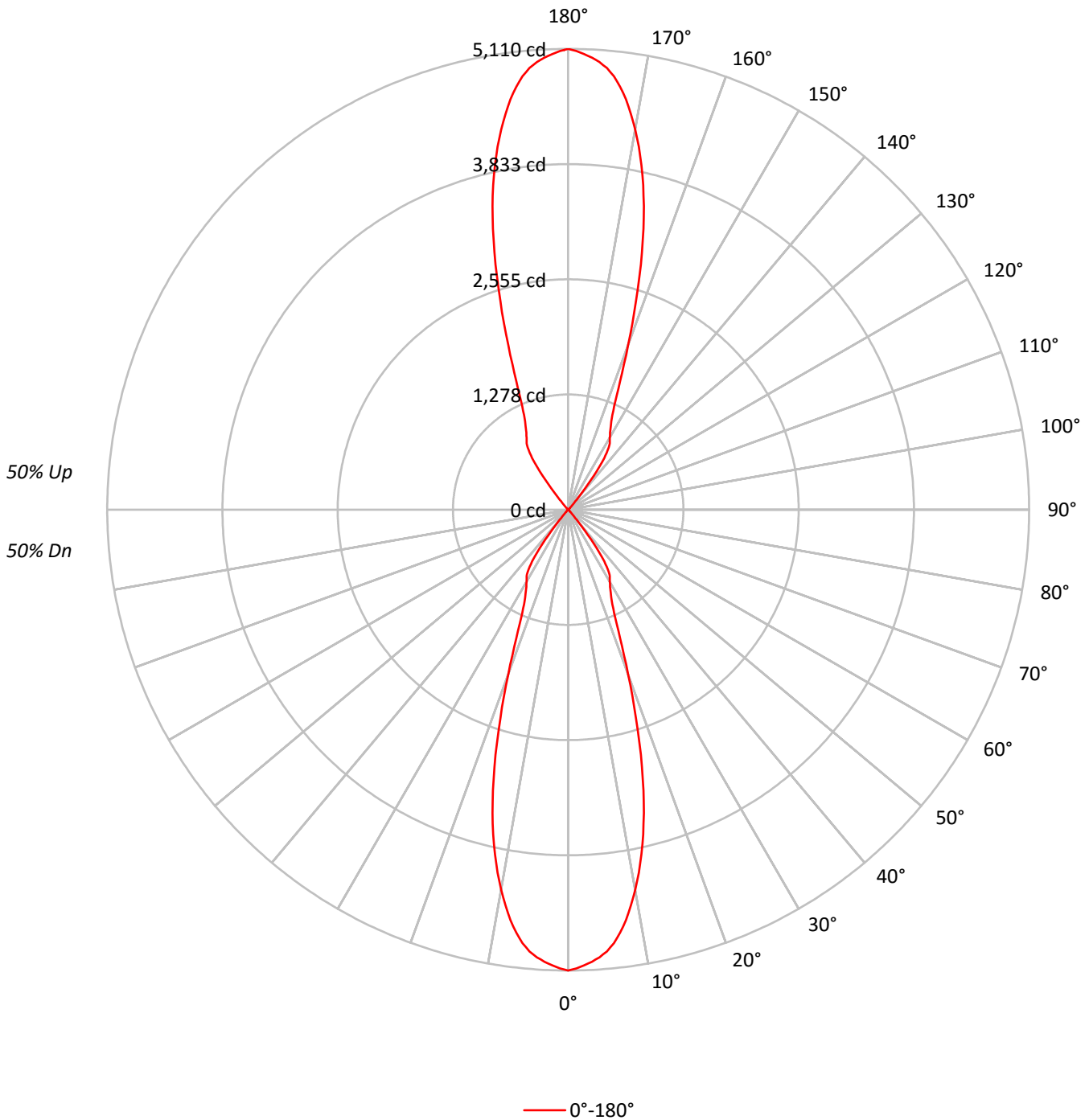
Lumens per Lamp: N/A
Luminaire Lumens: 4596.9 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.56
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 57
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	40
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°	630333
5°	608758
10°	535976
15°	411707
20°	254635
25°	157777
30°	131475
35°	105238
40°	22945
45°	4884
50°	921
55°	516
60°	395
65°	233
70°	289
75°	381
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.0	9.8
10°-20°	864.6	18.8
20°-30°	567.8	12.4
30°-40°	382.9	8.3
40°-50°	30.2	0.7
50°-60°	2.1	0.0
60°-70°	1.1	0.0
70°-80°	0.7	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.7	0.0
110°-120°	1.1	0.0
120°-130°	2.1	0.0
130°-140°	30.2	0.7
140°-150°	382.9	8.3
150°-160°	567.8	12.4
160°-170°	864.6	18.8
170°-180°	449.0	9.8
0°-30°	1881.4	40.9
0°-40°	2264.3	49.3
0°-60°	2296.6	50.0
0°-90°	2298.4	50.0
90°-120°	1.8	0.0
90°-150°	417.0	9.1
90°-180°	2298.0	50.0
0°-180°	4596.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5110	
5°	4917	449
15°	3224	865
25°	1159	568
35°	699	383
45°	28	30
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°	28	30
145°	699	383
155°	1159	568
165°	3224	865
175°	4917	449
180°	5110	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5110.3
1°	5087.9
2°	5055.1
3°	5019.1
4°	4976.6
5°	4916.6
6°	4834.1
7°	4726.8
8°	4594.7
9°	4441.8
10°	4279.3
11°	4100.8
12°	3906.2
13°	3694.0
14°	3468.3
15°	3224.1
16°	2967.1
17°	2701.3
18°	2435.5
19°	2185.7
20°	1939.9
21°	1726.9
22°	1535.6
23°	1377.1
24°	1254.6
25°	1159.3
26°	1090.4
27°	1037.6
28°	992.8
29°	955.9
30°	923.1
32.5°	854.3
35°	698.9
37.5°	415.5
40°	142.5
42.5°	42.4
45°	28.0
47.5°	17.6
50°	4.8
52.5°	2.4
55°	2.4
57.5°	1.6
60°	1.6
62.5°	1.6
65°	0.8



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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
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.8
105°	0.8
107.5°	0.8
110°	0.8
112.5°	0.8
115°	0.8
117.5°	1.6
120°	1.6
122.5°	1.6
125°	2.4
127.5°	2.4
130°	4.8
132.5°	17.6
135°	28.0
137.5°	42.4
140°	142.5
142.5°	415.5
145°	698.9
147.5°	854.3
150°	923.1
151°	955.9
152°	992.8
153°	1037.6
154°	1090.4
155°	1159.3
156°	1254.6
157°	1377.1
158°	1535.6
159°	1726.9
160°	1939.9
161°	2185.7



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CANDELA DISTRIBUTION (continued):

	0°
162°	2435.5
163°	2701.3
164°	2967.1
165°	3224.1
166°	3468.3
167°	3694.0
168°	3906.2
169°	4100.8
170°	4279.3
171°	4441.8
172°	4594.7
173°	4726.8
174°	4834.1
175°	4916.6
176°	4976.6
177°	5019.1
178°	5055.1
179°	5087.9
180°	5110.3

(END OF REPORT)