

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: P222089

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222089
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-LED3597-M-BK-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, MEDIUM FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3500K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4525.4 lumens
Efficiency: N/A
Efficacy: 79.1 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

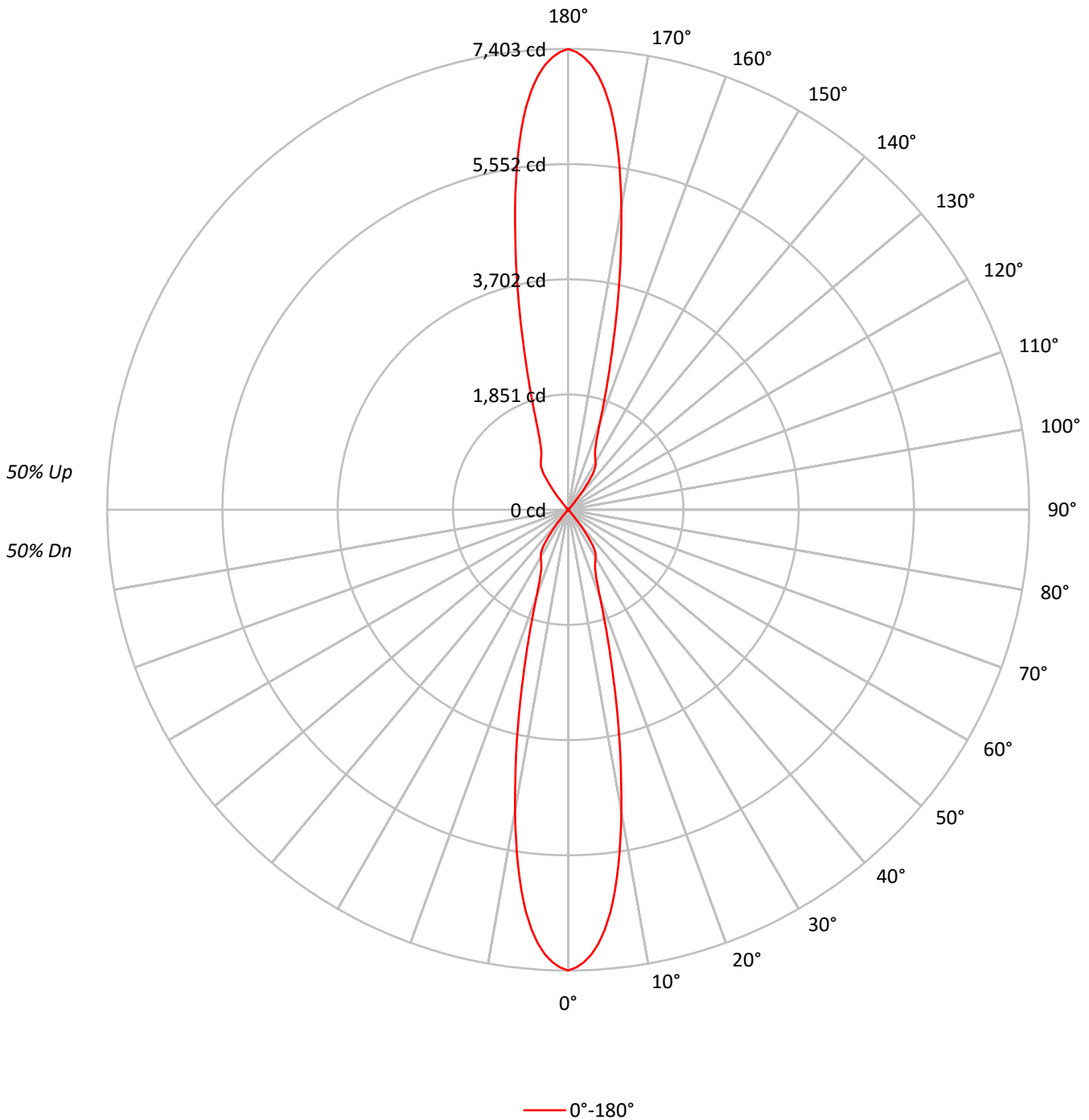
Input Watts (W): 57.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	913165
5°	837942
10°	615696
15°	358445
20°	195462
25°	138928
30°	125208
35°	98613
40°	21914
45°	6001
50°	1996
55°	1204
60°	789
65°	467
70°	289
75°	381
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	586.3	13.0
10°-20°	782.4	17.3
20°-30°	489.3	10.8
30°-40°	362.9	8.0
40°-50°	33.8	0.7
50°-60°	5.4	0.1
60°-70°	1.9	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°	1.9	0.0
120°-130°	5.4	0.1
130°-140°	33.8	0.7
140°-150°	362.9	8.0
150°-160°	489.3	10.8
160°-170°	782.4	17.3
170°-180°	586.3	13.0
0°-30°	1858.0	41.1
0°-40°	2220.9	49.1
0°-60°	2260.1	49.9
0°-90°	2262.7	50.0
90°-120°	2.6	0.1
90°-150°	404.7	8.9
90°-180°	2263.0	50.0
0°-180°	4525.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7403	
5°	6768	586
15°	2807	782
25°	1021	489
35°	655	363
45°	34	34
55°	6	5
65°	2	2
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	2	2
125°	6	5
135°	34	34
145°	655	363
155°	1021	489
165°	2807	782
175°	6768	586
180°	7403	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	7403.3
1°	7354.5
2°	7271.2
3°	7151.1
4°	6986.2
5°	6767.6
6°	6496.2
7°	6168.7
8°	5786.8
9°	5360.9
10°	4915.8
11°	4460.2
12°	4019.1
13°	3589.2
14°	3180.8
15°	2807.0
16°	2466.7
17°	2169.7
18°	1903.1
19°	1677.3
20°	1489.1
21°	1340.2
22°	1220.9
23°	1132.9
24°	1068.0
25°	1020.8
26°	985.6
27°	955.1
28°	927.1
29°	903.1
30°	879.1
32.5°	812.6
35°	654.9
37.5°	396.3
40°	136.1
42.5°	47.2
45°	34.4
47.5°	24.8
50°	10.4
52.5°	8.0
55°	5.6
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
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°	1.6
115°	1.6
117.5°	2.4
120°	3.2
122.5°	4.0
125°	5.6
127.5°	8.0
130°	10.4
132.5°	24.8
135°	34.4
137.5°	47.2
140°	136.1
142.5°	396.3
145°	654.9
147.5°	812.6
150°	879.1
151°	903.1
152°	927.1
153°	955.1
154°	985.6
155°	1020.8
156°	1068.0
157°	1132.9
158°	1220.9
159°	1340.2
160°	1489.1
161°	1677.3



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CANDELA DISTRIBUTION (continued):

	0°
162°	1903.1
163°	2169.7
164°	2466.7
165°	2807.0
166°	3180.8
167°	3589.2
168°	4019.1
169°	4460.2
170°	4915.8
171°	5360.9
172°	5786.8
173°	6168.7
174°	6496.2
175°	6767.6
176°	6986.2
177°	7151.1
178°	7271.2
179°	7354.5
180°	7403.3

(END OF REPORT)