

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: P221855

Luminaire Tested: **9004-W2-[RW, RI]-LED3597-S-BK-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221855
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29491)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9004-W2-[RW, RI]-LED3597-S-BK-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, SPOT OPTIC, BLACK HOUSING.
Light Source: (1) 3500K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3974.1 lumens
Efficiency: N/A
Efficacy: 69.7 lumens/watt
Spacing Criteria (0/90/45): 0.27 / 0.27 / 0.27
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

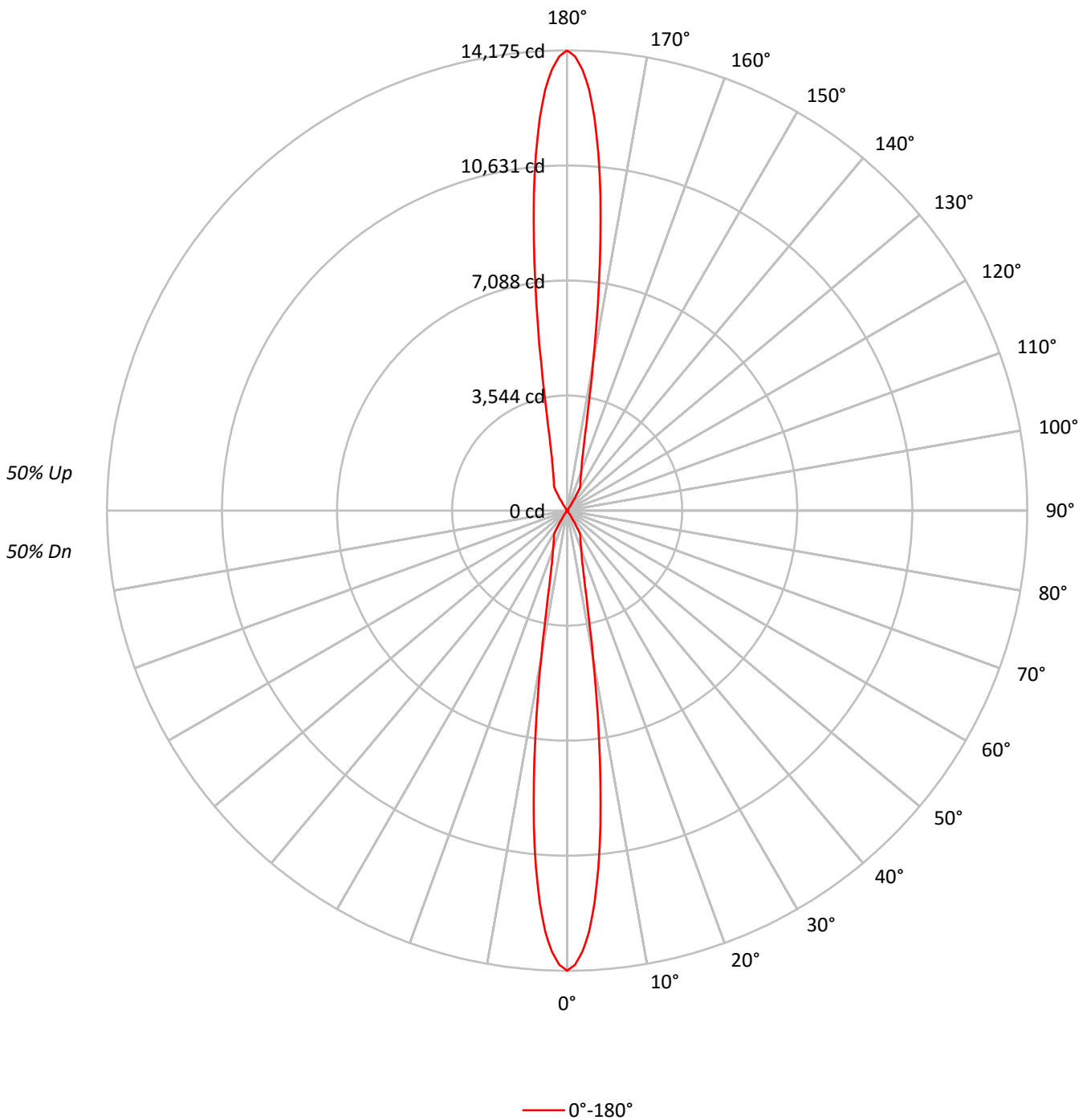
Input Watts (W): 57
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	95	93	93	91	88	86	78	76	75	65	65	64	54	54	53	48
2	95	90	86	82	88	84	80	77	73	70	68	62	61	59	53	52	51	47
3	90	83	78	74	83	78	74	70	68	65	63	59	57	56	51	50	49	45
4	85	77	72	68	79	73	68	64	64	61	58	57	54	53	49	48	47	44
5	81	72	67	62	75	68	63	60	61	57	55	54	52	50	48	46	45	42
6	77	68	62	58	72	65	60	56	58	54	52	52	49	48	46	45	43	41
7	73	64	58	54	69	61	56	53	55	52	49	50	47	45	45	43	42	40
8	70	61	55	51	66	58	53	50	53	49	47	48	46	44	44	42	41	39
9	67	58	52	49	63	56	51	47	51	47	45	47	44	42	42	41	39	38
10	64	55	50	47	61	53	48	45	49	45	43	45	42	41	41	40	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1748412
5°	1366009
10°	575379
15°	243837
20°	165101
25°	131075
30°	97036
35°	8794
40°	3220
45°	977
50°	768
55°	860
60°	592
65°	467
70°	289
75°	381
80°	568
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	830.5	20.9
10°-20°	586.8	14.8
20°-30°	448.1	11.3
30°-40°	109.8	2.8
40°-50°	5.9	0.1
50°-60°	3.2	0.1
60°-70°	1.6	0.0
70°-80°	0.8	0.0
80°-90°	0.3	0.0
90°-100°	0.5	0.0
100°-110°	0.8	0.0
110°-120°	1.6	0.0
120°-130°	3.2	0.1
130°-140°	5.9	0.1
140°-150°	109.8	2.8
150°-160°	448.1	11.3
160°-170°	586.8	14.8
170°-180°	830.5	20.9
0°-30°	1865.4	46.9
0°-40°	1975.2	49.7
0°-60°	1984.3	49.9
0°-90°	1987.1	50.0
90°-120°	3.0	0.1
90°-150°	121.9	3.1
90°-180°	1987.0	50.0
0°-180°	3974.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14175	
5°	11032	830
15°	1910	587
25°	963	448
35°	58	110
45°	6	6
55°	4	3
65°	2	2
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	2	2
125°	4	3
135°	6	6
145°	58	110
155°	963	448
165°	1910	587
175°	11032	830
180°	14175	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	14174.9
1°	13993.1
2°	13592.8
3°	12978.8
4°	12118.9
5°	11032.5
6°	9783.5
7°	8411.3
8°	7029.4
9°	5764.4
10°	4593.9
11°	3666.8
12°	2987.9
13°	2507.5
14°	2165.7
15°	1909.5
16°	1712.5
17°	1569.2
18°	1455.5
19°	1349.0
20°	1257.8
22.5°	1084.8
25°	963.1
26°	930.3
27°	903.1
28°	875.9
29°	803.8
30°	681.3
32.5°	306.6
35°	58.4
37.5°	32.0
40°	20.0
42.5°	8.8
45°	5.6
47.5°	4.8
50°	4.0
52.5°	4.0
55°	4.0
57.5°	3.2
60°	2.4
62.5°	2.4
65°	1.6
67.5°	0.8
70°	0.8
72.5°	0.8



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CANDELA DISTRIBUTION (continued):

	0°
75°	0.8
77.5°	0.8
80°	0.8
82.5°	0.8
85°	0.0
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.8
100°	0.8
102.5°	0.8
105°	0.8
107.5°	0.8
110°	0.8
112.5°	0.8
115°	1.6
117.5°	2.4
120°	2.4
122.5°	3.2
125°	4.0
127.5°	4.0
130°	4.0
132.5°	4.8
135°	5.6
137.5°	8.8
140°	20.0
142.5°	32.0
145°	58.4
147.5°	306.6
150°	681.3
151°	803.8
152°	875.9
153°	903.1
154°	930.3
155°	963.1
157.5°	1084.8
160°	1257.8
161°	1349.0
162°	1455.5
163°	1569.2
164°	1712.5
165°	1909.5
166°	2165.7
167°	2507.5



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CANDELA DISTRIBUTION (continued):

	0°
168°	2987.9
169°	3666.8
170°	4593.9
171°	5764.4
172°	7029.4
173°	8411.3
174°	9783.5
175°	11032.5
176°	12118.9
177°	12978.8
178°	13592.8
179°	13993.1
180°	14174.9

(END OF REPORT)