

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: P221345

Luminaire Tested: **9002-W2-FL-LED3597-S-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221345
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29421)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9002-W2-FL-LED3597-S-BK-L1-UNV
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, FLUSH LENS, SPOT OPTIC,
BLACK HOUSING.
Light Source: (1) 3500K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

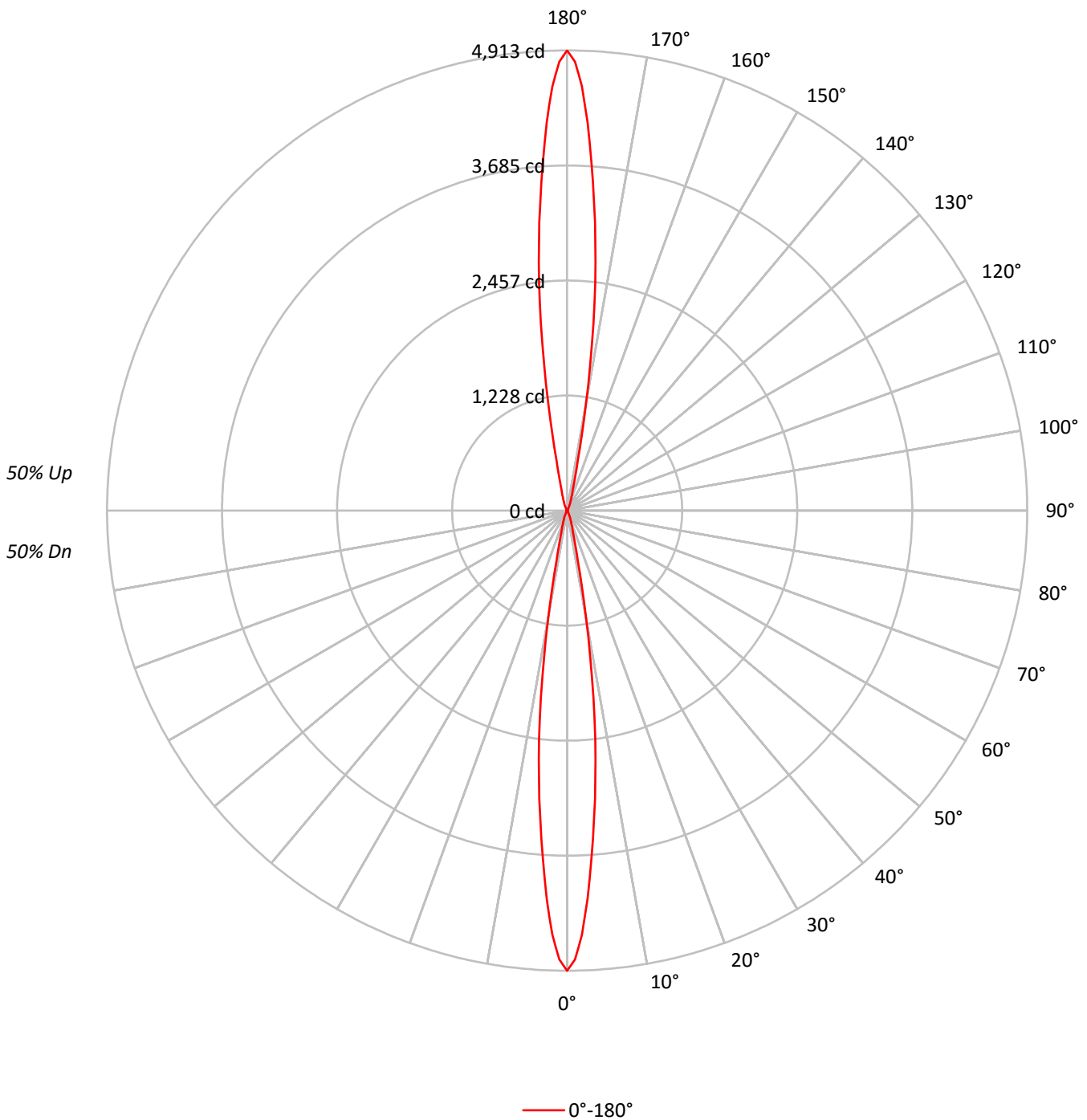
Lumens per Lamp: N/A
Luminaire Lumens: 744.9 lumens
Efficiency: N/A
Efficacy: 37.2 lumens/watt
Spacing Criteria (0/90/45): 0.24 / 0.24 / 0.24
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 20
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	96	93	94	91	89	87	78	77	75		66	65	64		55	55	54	49
2	96	91	87	83	89	85	82	79	74	71	70		63	62	61		54	53	52	48
3	91	85	80	76	85	80	76	72	70	67	65		61	59	58		53	52	51	47
4	87	80	74	70	81	75	71	67	67	64	61		59	57	55		52	51	50	47
5	83	75	70	66	78	71	67	63	64	61	58		57	55	53		51	49	49	46
6	79	71	66	62	75	68	63	60	61	58	56		55	53	52		50	49	48	45
7	76	68	63	59	72	65	61	57	59	56	54		54	52	50		49	48	47	45
8	73	65	60	57	70	63	58	55	57	54	52		53	50	49		48	47	46	44
9	71	63	58	55	67	60	56	53	56	53	50		52	49	48		47	46	45	44
10	69	61	56	53	65	58	54	51	54	51	49		50	48	47		47	45	44	43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2424122
5°	1635412
10°	582101
15°	121209
20°	58437
25°	28308
30°	9742
35°	4879
40°	3671
45°	2303
50°	1842
55°	1376
60°	1579
65°	934
70°	1154
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.1	33.2
10°-20°	88.6	11.9
20°-30°	24.9	3.3
30°-40°	5.7	0.8
40°-50°	3.0	0.4
50°-60°	1.7	0.2
60°-70°	1.1	0.1
70°-80°	0.3	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.5	0.1
110°-120°	1.1	0.1
120°-130°	1.7	0.2
130°-140°	3.0	0.4
140°-150°	5.7	0.8
150°-160°	24.9	3.3
160°-170°	88.6	11.9
170°-180°	247.1	33.2
0°-30°	360.6	48.4
0°-40°	366.4	49.2
0°-60°	371.0	49.8
0°-90°	372.4	50.0
90°-120°	1.6	0.2
90°-150°	12.0	1.6
90°-180°	373.0	50.1
0°-180°	744.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4913	
5°	3302	247
15°	237	89
25°	52	25
35°	8	6
45°	3	3
55°	2	2
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	1
115°	1	1
125°	2	2
135°	3	3
145°	8	6
155°	52	25
165°	237	89
175°	3302	247
180°	4913	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4913.3
1°	4792.3
2°	4530.6
3°	4150.4
4°	3724.6
5°	3302.1
6°	2885.3
7°	2462.8
8°	2021.6
9°	1576.3
10°	1161.9
11°	810.9
12°	550.9
13°	390.8
14°	297.4
15°	237.3
17.5°	153.6
20°	111.3
22.5°	80.4
25°	52.0
27.5°	30.1
30°	17.1
32.5°	11.4
35°	8.1
37.5°	6.5
40°	5.7
42.5°	4.9
45°	3.3
47.5°	3.3
50°	2.4
52.5°	2.4
55°	1.6
57.5°	1.6
60°	1.6
62.5°	1.6
65°	0.8
67.5°	0.8
70°	0.8
72.5°	0.8
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0



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CANDELA DISTRIBUTION (continued):

	0°
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.0
105°	0.0
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°	1.6
127.5°	2.4
130°	2.4
132.5°	3.3
135°	3.3
137.5°	4.9
140°	5.7
142.5°	6.5
145°	8.1
147.5°	11.4
150°	17.1
152.5°	30.1
155°	52.0
157.5°	80.4
160°	111.3
162.5°	153.6
165°	237.3
166°	297.4
167°	390.8
168°	550.9
169°	810.9
170°	1161.9
171°	1576.3
172°	2021.6
173°	2462.8
174°	2885.3
175°	3302.1
176°	3724.6
177°	4150.4
178°	4530.6
179°	4792.3



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CANDELA DISTRIBUTION (continued):

180° | $\frac{0^\circ}{4913.3}$

(END OF REPORT)