

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: P221261

Luminaire Tested: **9002-W2-[RW, RI]-LED3597-S-BK-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221261  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29413)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 9002-W2-[RW, RI]-LED3597-S-BK-L1-UNV  
Description: LUMIERE LANTERRA 9002 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: 768.4 lumens  
Efficiency: N/A  
Efficacy: 38.4 lumens/watt  
Spacing Criteria (0/90/45): 0.25 / 0.25 / 0.25  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: General Diffuse

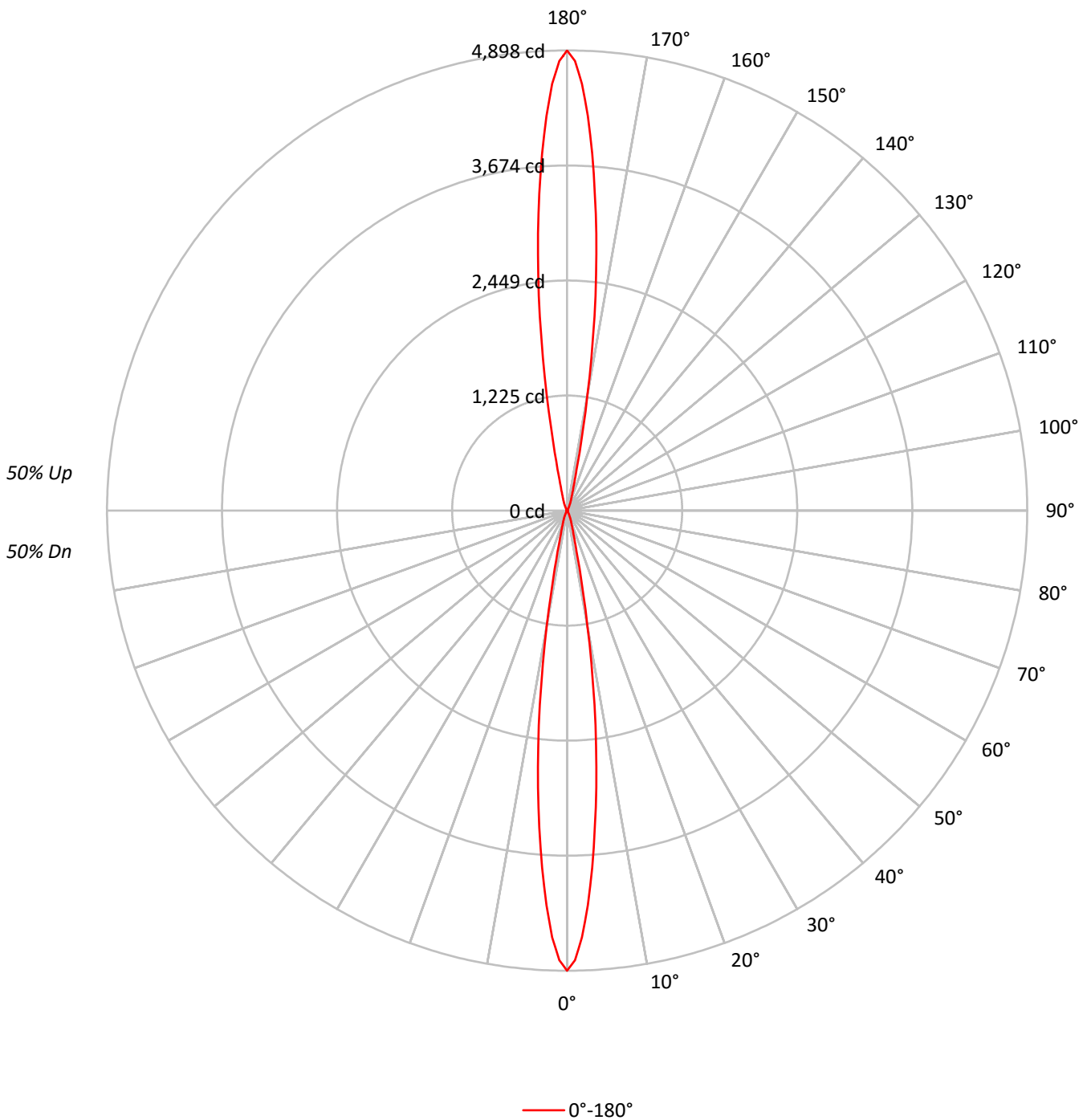
Input Watts (W): 20  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	76		66	65	65		55	55	54	49
2	96	91	87	84	89	85	82	79	74	72	70		63	62	61		54	53	53	48
3	91	85	80	76	85	80	76	73	70	67	65		61	59	58		53	52	51	48
4	87	80	75	71	81	75	71	68	67	64	62		59	57	56		52	51	50	47
5	83	75	70	66	78	71	67	64	64	61	59		57	55	54		51	50	49	46
6	79	72	66	63	75	68	64	60	62	59	56		56	54	52		50	49	48	46
7	76	68	63	59	72	65	61	58	60	56	54		54	52	50		49	48	47	45
8	74	66	60	57	70	63	58	55	58	55	52		53	51	49		48	47	46	44
9	71	63	58	55	68	61	56	53	56	53	51		52	50	48		48	46	45	44
10	69	61	56	53	66	59	55	52	55	52	49		51	49	47		47	46	45	43

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	2416524
5°	1678104
10°	623232
15°	133621
20°	59750
25°	29179
30°	9742
35°	4397
40°	2641
45°	1675
50°	1228
55°	0
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	253.7	33.0
10°-20°	97.5	12.7
20°-30°	25.6	3.3
30°-40°	5.2	0.7
40°-50°	1.8	0.2
50°-60°	0.3	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.5	0.1
130°-140°	1.8	0.2
140°-150°	5.2	0.7
150°-160°	25.6	3.3
160°-170°	97.5	12.7
170°-180°	253.7	33.0
0°-30°	376.8	49.0
0°-40°	382.1	49.7
0°-60°	384.2	50.0
0°-90°	384.2	50.0
90°-120°	0.0	0.0
90°-150°	7.5	1.0
90°-180°	384.0	50.0
0°-180°	768.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4898	
5°	3388	254
15°	262	98
25°	54	26
35°	7	5
45°	2	2
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	0	0
125°	0	1
135°	2	2
145°	7	5
155°	54	26
165°	262	98
175°	3388	254
180°	4898	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4897.9
1°	4785.8
2°	4545.3
3°	4206.5
4°	3811.6
5°	3388.3
6°	2964.9
7°	2529.4
8°	2084.1
9°	1647.8
10°	1244.0
11°	898.7
12°	633.0
13°	450.1
14°	334.8
15°	261.6
17.5°	160.9
20°	113.8
22.5°	82.9
25°	53.6
27.5°	30.9
30°	17.1
32.5°	10.6
35°	7.3
37.5°	5.7
40°	4.1
42.5°	2.4
45°	2.4
47.5°	1.6
50°	1.6
52.5°	0.8
55°	0.0
57.5°	0.0
60°	0.0
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
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°	0.0
110°	0.0
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.0
125°	0.0
127.5°	0.8
130°	1.6
132.5°	1.6
135°	2.4
137.5°	2.4
140°	4.1
142.5°	5.7
145°	7.3
147.5°	10.6
150°	17.1
152.5°	30.9
155°	53.6
157.5°	82.9
160°	113.8
162.5°	160.9
165°	261.6
166°	334.8
167°	450.1
168°	633.0
169°	898.7
170°	1244.0
171°	1647.8
172°	2084.1
173°	2529.4
174°	2964.9
175°	3388.3
176°	3811.6
177°	4206.5
178°	4545.3
179°	4785.8



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**CANDELA DISTRIBUTION (continued):**

180°  $\overbrace{\quad\quad\quad}^{0^\circ}$   
4897.9

(END OF REPORT)