

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: P221854

Luminaire Tested: **9004-W2-[RW, RI]-LED3597-S-BK-L2-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221854  
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-L2-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: 3067.5 lumens  
Efficiency: N/A  
Efficacy: 76.3 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

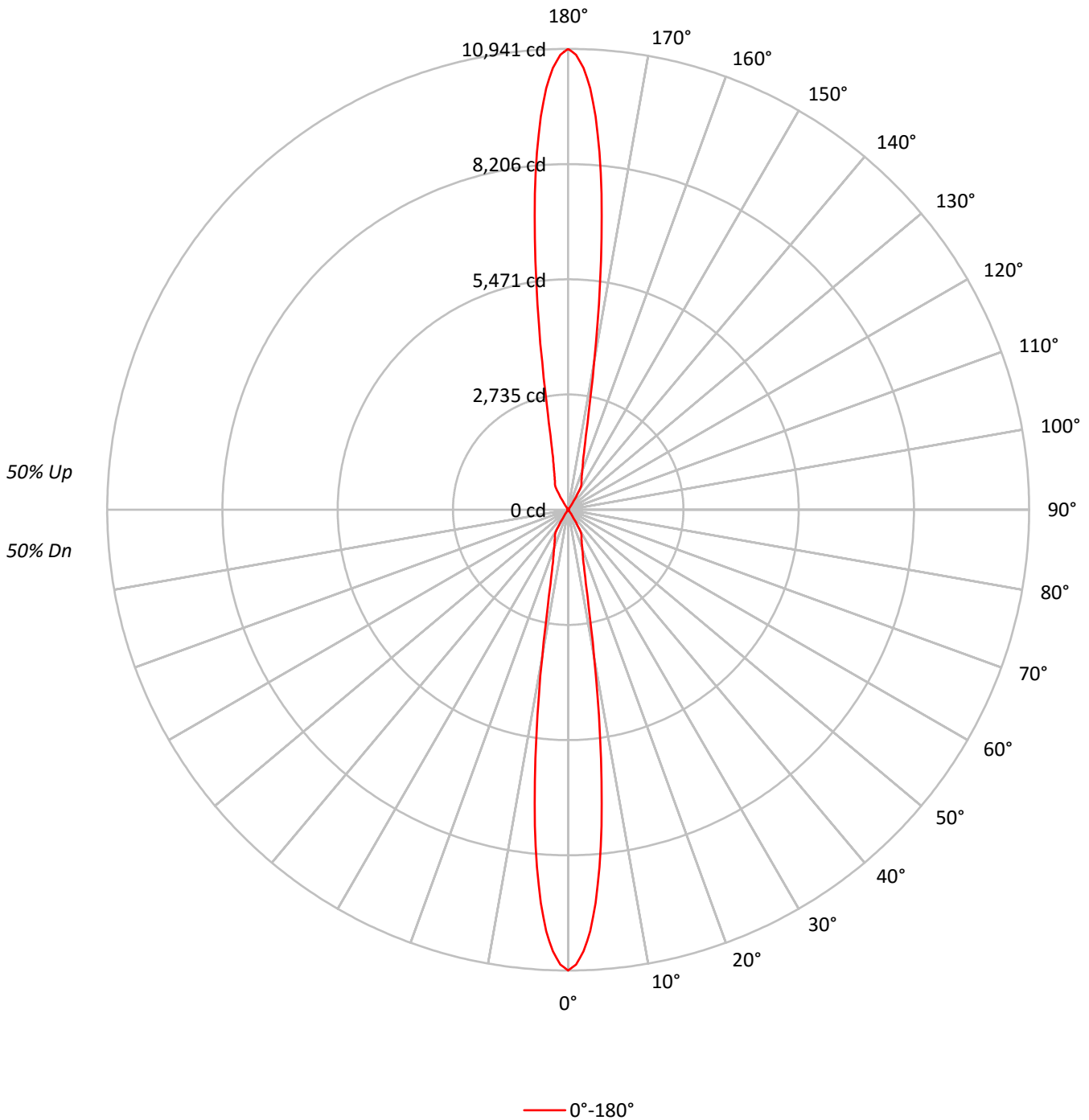
Input Watts (W): 40.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	1349549
5°	1054387
10°	444118
15°	188212
20°	127429
25°	101174
30°	74902
35°	6791
40°	2480
45°	750
50°	595
55°	667
60°	469
65°	350
70°	216
75°	286
80°	426
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	641.0	20.9
10°-20°	452.9	14.8
20°-30°	345.9	11.3
30°-40°	84.8	2.8
40°-50°	4.6	0.1
50°-60°	2.5	0.1
60°-70°	1.2	0.0
70°-80°	0.6	0.0
80°-90°	0.2	0.0
90°-100°	0.4	0.0
100°-110°	0.6	0.0
110°-120°	1.2	0.0
120°-130°	2.5	0.1
130°-140°	4.6	0.1
140°-150°	84.8	2.8
150°-160°	345.9	11.3
160°-170°	452.9	14.8
170°-180°	641.0	20.9
0°-30°	1439.8	46.9
0°-40°	1524.6	49.7
0°-60°	1531.7	49.9
0°-90°	1533.8	50.0
90°-120°	2.3	0.1
90°-150°	94.1	3.1
90°-180°	1534.0	50.0
0°-180°	3067.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	10941	
5°	8516	641
15°	1474	453
25°	743	346
35°	45	85
45°	4	5
55°	3	3
65°	1	1
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	1	1
125°	3	3
135°	4	5
145°	45	85
155°	743	346
165°	1474	453
175°	8516	641
180°	10941	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	10941.2
1°	10800.9
2°	10491.9
3°	10017.9
4°	9354.2
5°	8515.7
6°	7551.6
7°	6492.4
8°	5425.8
9°	4449.4
10°	3545.9
11°	2830.3
12°	2306.3
13°	1935.5
14°	1671.6
15°	1473.9
16°	1321.8
17°	1211.2
18°	1123.5
19°	1041.3
20°	970.8
22.5°	837.4
25°	743.4
26°	718.1
27°	697.1
28°	676.1
29°	620.4
30°	525.9
32.5°	236.7
35°	45.1
37.5°	24.7
40°	15.4
42.5°	6.8
45°	4.3
47.5°	3.7
50°	3.1
52.5°	3.1
55°	3.1
57.5°	2.5
60°	1.9
62.5°	1.9
65°	1.2
67.5°	0.6
70°	0.6
72.5°	0.6



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**CANDELA DISTRIBUTION (continued):**

	0°
75°	0.6
77.5°	0.6
80°	0.6
82.5°	0.6
85°	0.0
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.6
100°	0.6
102.5°	0.6
105°	0.6
107.5°	0.6
110°	0.6
112.5°	0.6
115°	1.2
117.5°	1.9
120°	1.9
122.5°	2.5
125°	3.1
127.5°	3.1
130°	3.1
132.5°	3.7
135°	4.3
137.5°	6.8
140°	15.4
142.5°	24.7
145°	45.1
147.5°	236.7
150°	525.9
151°	620.4
152°	676.1
153°	697.1
154°	718.1
155°	743.4
157.5°	837.4
160°	970.8
161°	1041.3
162°	1123.5
163°	1211.2
164°	1321.8
165°	1473.9
166°	1671.6
167°	1935.5



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**CANDELA DISTRIBUTION (continued):**

	0°
168°	2306.3
169°	2830.3
170°	3545.9
171°	4449.4
172°	5425.8
173°	6492.4
174°	7551.6
175°	8515.7
176°	9354.2
177°	10017.9
178°	10491.9
179°	10800.9
180°	10941.2

(END OF REPORT)