

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: P221851

Luminaire Tested: **9004-W2-[RW, RI]-LED3597-M-WT-L2-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221851  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29488)  
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-M-WT-L2-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, MEDIUM FLOOD OPTIC, WHITE HOUSING.  
Light Source: (1) 3500K CCT, 97 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3272.5 lumens  
Efficiency: N/A  
Efficacy: 81.4 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

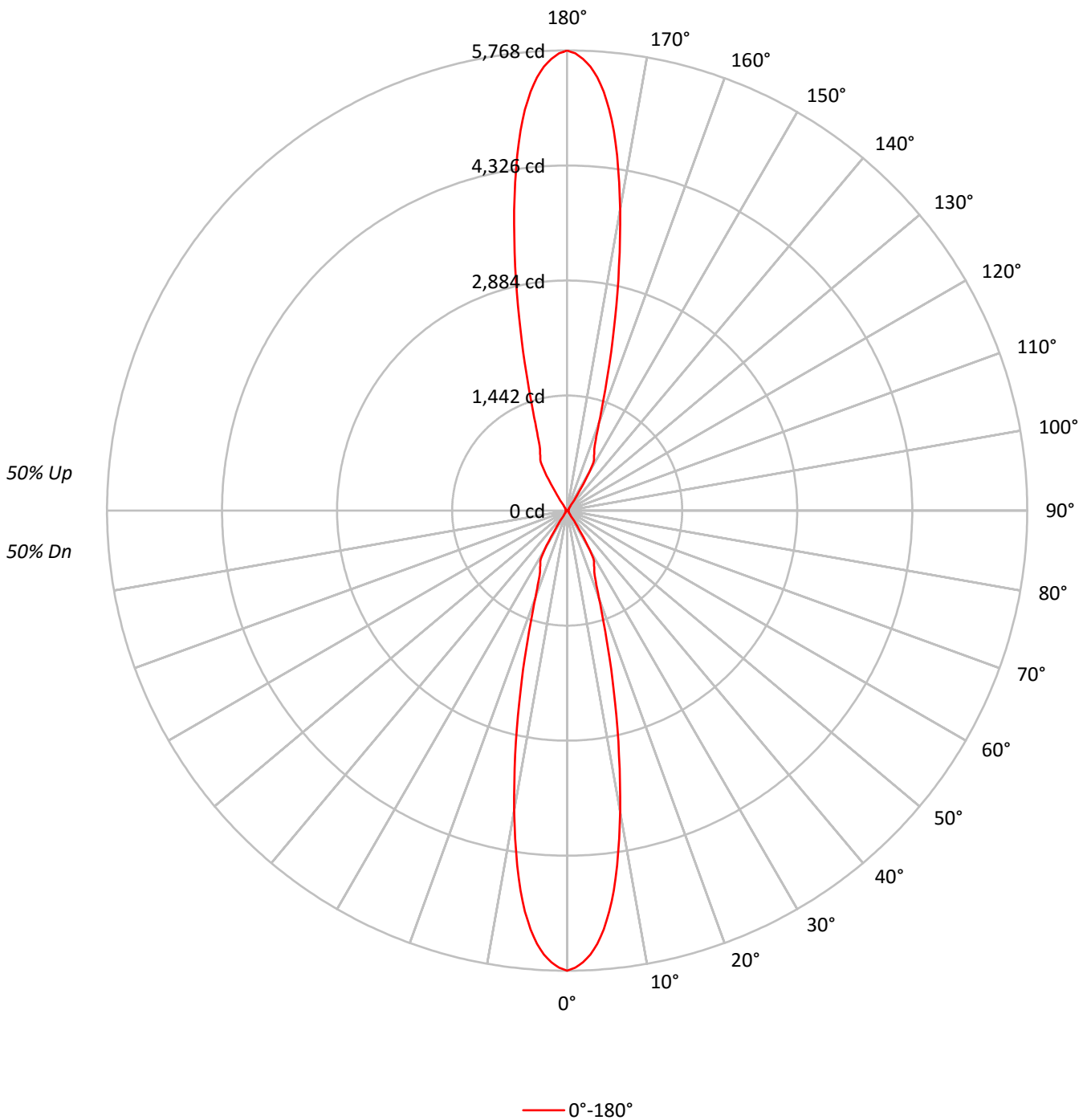
Input Watts (W): 40.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	97	94	92	93	90	88	85	77	75	74	65	64	63	54	53	52	47
2	94	89	84	80	87	83	79	75	71	69	66	61	59	58	51	50	49	45
3	88	81	76	72	82	76	72	68	67	63	61	57	55	53	49	48	47	43
4	83	75	69	65	78	71	66	62	62	59	56	54	52	50	47	46	44	41
5	79	70	64	59	73	66	61	57	59	55	52	52	49	47	45	44	42	39
6	75	65	59	55	70	62	57	53	55	51	48	49	46	44	44	42	40	38
7	71	61	55	51	66	58	53	49	53	49	46	47	44	42	42	40	39	36
8	67	58	52	48	63	55	50	46	50	46	43	45	42	40	41	39	37	35
9	64	55	49	45	60	52	47	44	48	44	41	43	40	38	39	37	36	34
10	61	52	46	43	58	50	45	41	46	42	39	42	39	37	38	36	34	33

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

	0°
0°	711396
5°	652366
10°	478725
15°	280384
20°	152985
25°	109000
30°	80628
35°	11625
40°	6376
45°	4535
50°	4625
55°	4774
60°	5329
65°	5954
70°	6924
75°	8531
80°	10087
85°	9624



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	456.0	13.9
10°-20°	610.6	18.7
20°-30°	376.9	11.5
30°-40°	105.1	3.2
40°-50°	21.2	0.6
50°-60°	20.2	0.6
60°-70°	20.4	0.6
70°-80°	18.3	0.6
80°-90°	7.6	0.2
90°-100°	7.6	0.2
100°-110°	18.3	0.6
110°-120°	20.4	0.6
120°-130°	20.2	0.6
130°-140°	21.2	0.6
140°-150°	105.1	3.2
150°-160°	376.9	11.5
160°-170°	610.6	18.7
170°-180°	456.0	13.9
0°-30°	1443.5	44.1
0°-40°	1548.5	47.3
0°-60°	1590.0	48.6
0°-90°	1636.3	50.0
90°-120°	46.3	1.4
90°-150°	192.8	5.9
90°-180°	1636.0	50.0
0°-180°	3272.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5768	
5°	5269	456
15°	2196	611
25°	801	377
35°	77	105
45°	26	21
55°	22	20
65°	20	20
75°	18	18
85°	7	7
90°	0	1
95°	7	7
105°	18	18
115°	20	20
125°	22	20
135°	26	21
145°	77	105
155°	801	377
165°	2196	611
175°	5269	456
180°	5768	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5767.5
1°	5731.7
2°	5665.6
3°	5571.6
4°	5442.5
5°	5268.8
6°	5053.8
7°	4797.9
8°	4492.7
9°	4164.5
10°	3822.2
11°	3473.6
12°	3129.4
13°	2793.9
14°	2482.4
15°	2195.7
16°	1931.8
17°	1695.1
18°	1487.5
19°	1310.1
20°	1165.5
21°	1046.2
22°	956.6
23°	888.6
24°	838.0
25°	800.9
26°	770.6
27°	744.0
28°	718.7
29°	661.8
30°	566.1
32.5°	274.4
35°	77.2
37.5°	53.1
40°	39.6
42.5°	27.8
45°	26.0
47.5°	24.7
50°	24.1
52.5°	22.9
55°	22.2
57.5°	22.2
60°	21.6
62.5°	21.6
65°	20.4



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	19.8
70°	19.2
72.5°	18.5
75°	17.9
77.5°	16.1
80°	14.2
82.5°	11.1
85°	6.8
87.5°	3.1
90°	0.0
92.5°	3.1
95°	6.8
97.5°	11.1
100°	14.2
102.5°	16.1
105°	17.9
107.5°	18.5
110°	19.2
112.5°	19.8
115°	20.4
117.5°	21.6
120°	21.6
122.5°	22.2
125°	22.2
127.5°	22.9
130°	24.1
132.5°	24.7
135°	26.0
137.5°	27.8
140°	39.6
142.5°	53.1
145°	77.2
147.5°	274.4
150°	566.1
151°	661.8
152°	718.7
153°	744.0
154°	770.6
155°	800.9
156°	838.0
157°	888.6
158°	956.6
159°	1046.2
160°	1165.5
161°	1310.1



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**CANDELA DISTRIBUTION (continued):**

	0°
162°	1487.5
163°	1695.1
164°	1931.8
165°	2195.7
166°	2482.4
167°	2793.9
168°	3129.4
169°	3473.6
170°	3822.2
171°	4164.5
172°	4492.7
173°	4797.9
174°	5053.8
175°	5268.8
176°	5442.5
177°	5571.6
178°	5665.6
179°	5731.7
180°	5767.5

(END OF REPORT)