

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: P221845

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221845  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29489)  
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-F-WT-L2-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, FLOOD OPTIC, WHITE HOUSING.  
Light Source: (1) 3500K CCT, 97 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

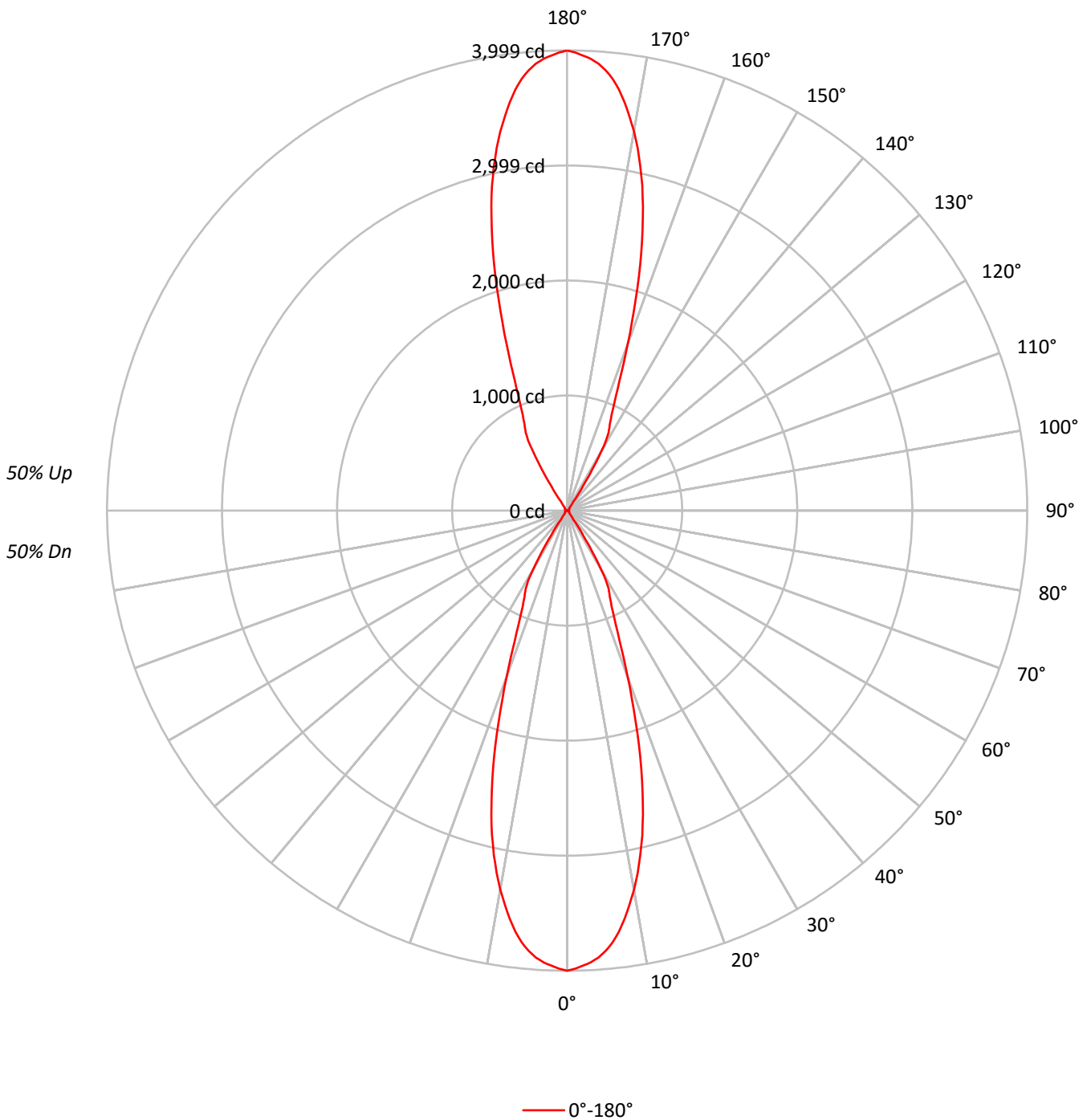
Lumens per Lamp: N/A  
Luminaire Lumens: 3335.7 lumens  
Efficiency: N/A  
Efficacy: 83.0 lumens/watt  
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.57  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: General Diffuse

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	91	93	90	87	85	77	75	74	65	64	63	53	53	52	47
2	94	88	84	80	87	82	78	75	71	68	66	61	59	57	51	50	49	45
3	88	81	76	71	82	76	71	67	66	63	60	57	55	53	49	47	46	42
4	83	75	69	64	77	70	65	61	62	58	55	54	51	49	47	45	44	40
5	78	69	63	59	73	65	60	56	58	54	51	51	48	46	45	43	41	39
6	74	65	58	54	69	61	56	52	55	51	48	49	46	43	43	41	39	37
7	70	60	54	50	66	57	52	48	52	48	45	46	43	41	41	39	38	35
8	66	57	51	47	62	54	49	45	49	45	42	44	41	39	39	37	36	34
9	63	54	48	44	60	51	46	42	46	42	40	42	39	37	38	36	34	33
10	60	51	45	41	57	48	43	40	44	40	38	40	37	35	37	34	33	31

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

	0°
0°	493247
5°	475617
10°	418818
15°	323392
20°	201894
25°	124311
30°	85200
35°	13401
40°	6070
45°	4099
50°	4260
55°	4645
60°	5181
65°	5779
70°	6672
75°	8245
80°	9660
85°	9624



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	350.7	10.5
10°-20°	680.0	20.4
20°-30°	440.4	13.2
30°-40°	113.3	3.4
40°-50°	19.3	0.6
50°-60°	19.5	0.6
60°-70°	19.6	0.6
70°-80°	17.6	0.5
80°-90°	7.4	0.2
90°-100°	7.4	0.2
100°-110°	17.6	0.5
110°-120°	19.6	0.6
120°-130°	19.5	0.6
130°-140°	19.3	0.6
140°-150°	113.3	3.4
150°-160°	440.4	13.2
160°-170°	680.0	20.4
170°-180°	350.7	10.5
0°-30°	1471.1	44.1
0°-40°	1584.4	47.5
0°-60°	1623.2	48.7
0°-90°	1667.9	50.0
90°-120°	44.6	1.3
90°-150°	196.8	5.9
90°-180°	1668.0	50.0
0°-180°	3335.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3999	
5°	3841	351
15°	2532	680
25°	913	440
35°	89	113
45°	24	19
55°	22	20
65°	20	20
75°	17	18
85°	7	7
90°	0	1
95°	7	7
105°	17	18
115°	20	20
125°	22	20
135°	24	19
145°	89	113
155°	913	440
165°	2532	680
175°	3841	351
180°	3999	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3998.9
1°	3981.0
2°	3957.5
3°	3929.7
4°	3893.9
5°	3841.3
6°	3774.6
7°	3687.4
8°	3583.0
9°	3466.8
10°	3343.9
11°	3209.1
12°	3060.8
13°	2900.2
14°	2724.0
15°	2532.5
16°	2334.7
17°	2131.4
18°	1927.5
19°	1726.6
20°	1538.1
21°	1365.7
22°	1215.6
23°	1088.9
24°	989.4
25°	913.4
26°	853.4
27°	807.1
28°	768.1
29°	700.2
30°	598.2
32.5°	299.1
35°	89.0
37.5°	56.9
40°	37.7
42.5°	24.1
45°	23.5
47.5°	22.9
50°	22.2
52.5°	22.2
55°	21.6
57.5°	21.6
60°	21.0
62.5°	20.4
65°	19.8



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	19.2
70°	18.5
72.5°	17.9
75°	17.3
77.5°	15.4
80°	13.6
82.5°	10.5
85°	6.8
87.5°	3.1
90°	0.0
92.5°	3.1
95°	6.8
97.5°	10.5
100°	13.6
102.5°	15.4
105°	17.3
107.5°	17.9
110°	18.5
112.5°	19.2
115°	19.8
117.5°	20.4
120°	21.0
122.5°	21.6
125°	21.6
127.5°	22.2
130°	22.2
132.5°	22.9
135°	23.5
137.5°	24.1
140°	37.7
142.5°	56.9
145°	89.0
147.5°	299.1
150°	598.2
151°	700.2
152°	768.1
153°	807.1
154°	853.4
155°	913.4
156°	989.4
157°	1088.9
158°	1215.6
159°	1365.7
160°	1538.1
161°	1726.6



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**CANDELA DISTRIBUTION (continued):**

	0°
162°	1927.5
163°	2131.4
164°	2334.7
165°	2532.5
166°	2724.0
167°	2900.2
168°	3060.8
169°	3209.1
170°	3343.9
171°	3466.8
172°	3583.0
173°	3687.4
174°	3774.6
175°	3841.3
176°	3893.9
177°	3929.7
178°	3957.5
179°	3981.0
180°	3998.9

(END OF REPORT)