

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: P221850

Luminaire Tested: **9004-W2-[RW, RI]-LED3597-M-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221850
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-L1-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: 1772.4 lumens
Efficiency: N/A
Efficacy: 90.0 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

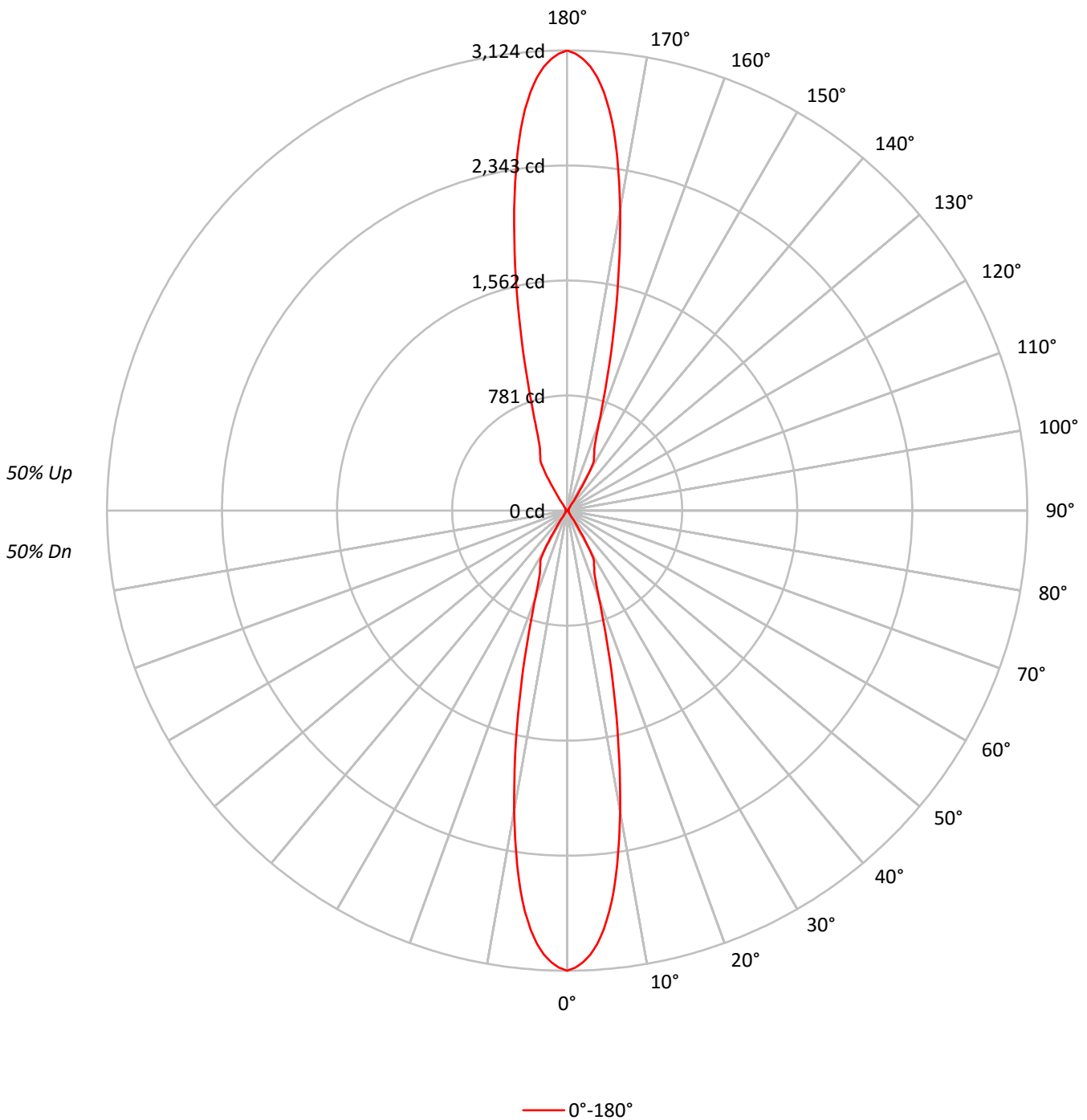
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	385295
5°	353324
10°	259264
15°	151844
20°	82852
25°	59039
30°	43668
35°	6294
40°	3446
45°	2460
50°	2514
55°	2581
60°	2886
65°	3210
70°	3751
75°	4623
80°	5469
85°	5236



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.0	13.9
10°-20°	330.7	18.7
20°-30°	204.1	11.5
30°-40°	56.9	3.2
40°-50°	11.5	0.6
50°-60°	10.9	0.6
60°-70°	11.0	0.6
70°-80°	9.9	0.6
80°-90°	4.1	0.2
90°-100°	4.1	0.2
100°-110°	9.9	0.6
110°-120°	11.0	0.6
120°-130°	10.9	0.6
130°-140°	11.5	0.6
140°-150°	56.9	3.2
150°-160°	204.1	11.5
160°-170°	330.7	18.7
170°-180°	247.0	13.9
0°-30°	781.8	44.1
0°-40°	838.7	47.3
0°-60°	861.1	48.6
0°-90°	886.2	50.0
90°-120°	25.1	1.4
90°-150°	104.4	5.9
90°-180°	886.0	50.0
0°-180°	1772.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3124	
5°	2854	247
15°	1189	331
25°	434	204
35°	42	57
45°	14	12
55°	12	11
65°	11	11
75°	10	10
85°	4	4
90°	0	0
95°	4	4
105°	10	10
115°	11	11
125°	12	11
135°	14	12
145°	42	57
155°	434	204
165°	1189	331
175°	2854	247
180°	3124	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3123.7
1°	3104.2
2°	3068.4
3°	3017.6
4°	2947.6
5°	2853.6
6°	2737.1
7°	2598.5
8°	2433.2
9°	2255.5
10°	2070.0
11°	1881.3
12°	1694.9
13°	1513.1
14°	1344.4
15°	1189.1
16°	1046.2
17°	918.1
18°	805.6
19°	709.5
20°	631.2
21°	566.6
22°	518.1
23°	481.3
24°	453.8
25°	433.8
26°	417.4
27°	403.0
28°	389.2
29°	358.5
30°	306.6
32.5°	148.6
35°	41.8
37.5°	28.8
40°	21.4
42.5°	15.1
45°	14.1
47.5°	13.4
50°	13.1
52.5°	12.4
55°	12.0
57.5°	12.0
60°	11.7
62.5°	11.7
65°	11.0



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	10.7
70°	10.4
72.5°	10.0
75°	9.7
77.5°	8.7
80°	7.7
82.5°	6.0
85°	3.7
87.5°	1.7
90°	0.0
92.5°	1.7
95°	3.7
97.5°	6.0
100°	7.7
102.5°	8.7
105°	9.7
107.5°	10.0
110°	10.4
112.5°	10.7
115°	11.0
117.5°	11.7
120°	11.7
122.5°	12.0
125°	12.0
127.5°	12.4
130°	13.1
132.5°	13.4
135°	14.1
137.5°	15.1
140°	21.4
142.5°	28.8
145°	41.8
147.5°	148.6
150°	306.6
151°	358.5
152°	389.2
153°	403.0
154°	417.4
155°	433.8
156°	453.8
157°	481.3
158°	518.1
159°	566.6
160°	631.2
161°	709.5



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CANDELA DISTRIBUTION (continued):

	0°
162°	805.6
163°	918.1
164°	1046.2
165°	1189.1
166°	1344.4
167°	1513.1
168°	1694.9
169°	1881.3
170°	2070.0
171°	2255.5
172°	2433.2
173°	2598.5
174°	2737.1
175°	2853.6
176°	2947.6
177°	3017.6
178°	3068.4
179°	3104.2
180°	3123.7

(END OF REPORT)