

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: P221852

Luminaire Tested: **9004-W2-[RW, RI]-LED3597-M-WT-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221852
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-L3-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: 4239.7 lumens
Efficiency: N/A
Efficacy: 74.4 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

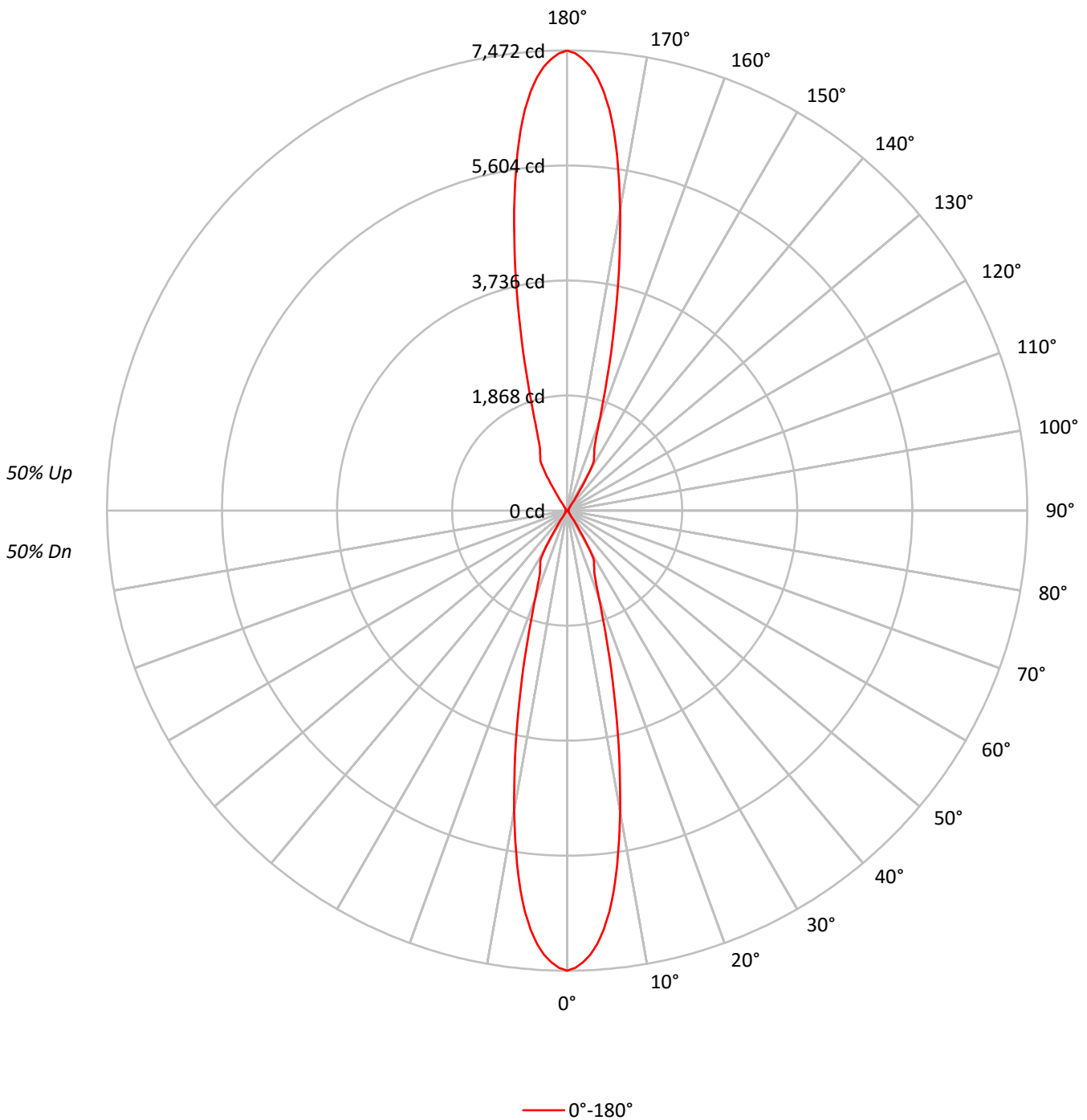
Input Watts (W): 57
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	921651
5°	845173
10°	620205
15°	363246
20°	198205
25°	141214
30°	104456
35°	15073
40°	8244
45°	5861
50°	5987
55°	6193
60°	6907
65°	7705
70°	8944
75°	11056
80°	13070
85°	12454



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	590.8	13.9
10°-20°	791.0	18.7
20°-30°	488.3	11.5
30°-40°	136.1	3.2
40°-50°	27.5	0.6
50°-60°	26.2	0.6
60°-70°	26.4	0.6
70°-80°	23.7	0.6
80°-90°	9.9	0.2
90°-100°	9.9	0.2
100°-110°	23.7	0.6
110°-120°	26.4	0.6
120°-130°	26.2	0.6
130°-140°	27.5	0.6
140°-150°	136.1	3.2
150°-160°	488.3	11.5
160°-170°	791.0	18.7
170°-180°	590.8	13.9
0°-30°	1870.1	44.1
0°-40°	2006.2	47.3
0°-60°	2059.9	48.6
0°-90°	2119.8	50.0
90°-120°	60.0	1.4
90°-150°	249.7	5.9
90°-180°	2120.0	50.0
0°-180°	4239.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7472	
5°	6826	591
15°	2845	791
25°	1038	488
35°	100	136
45°	34	27
55°	29	26
65°	26	26
75°	23	24
85°	9	9
90°	0	1
95°	9	9
105°	23	24
115°	26	26
125°	29	26
135°	34	27
145°	100	136
155°	1038	488
165°	2845	791
175°	6826	591
180°	7472	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	7472.1
1°	7425.7
2°	7340.0
3°	7218.3
4°	7051.0
5°	6826.0
6°	6547.4
7°	6216.0
8°	5820.5
9°	5395.3
10°	4951.8
11°	4500.3
12°	4054.3
13°	3619.6
14°	3216.1
15°	2844.6
16°	2502.7
17°	2196.1
18°	1927.1
19°	1697.3
20°	1510.0
21°	1355.4
22°	1239.4
23°	1151.3
24°	1085.6
25°	1037.6
26°	998.4
27°	963.9
28°	931.1
29°	857.5
30°	733.4
32.5°	355.5
35°	100.1
37.5°	68.9
40°	51.2
42.5°	36.0
45°	33.6
47.5°	32.0
50°	31.2
52.5°	29.6
55°	28.8
57.5°	28.8
60°	28.0
62.5°	28.0
65°	26.4



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	25.6
70°	24.8
72.5°	24.0
75°	23.2
77.5°	20.8
80°	18.4
82.5°	14.4
85°	8.8
87.5°	4.0
90°	0.0
92.5°	4.0
95°	8.8
97.5°	14.4
100°	18.4
102.5°	20.8
105°	23.2
107.5°	24.0
110°	24.8
112.5°	25.6
115°	26.4
117.5°	28.0
120°	28.0
122.5°	28.8
125°	28.8
127.5°	29.6
130°	31.2
132.5°	32.0
135°	33.6
137.5°	36.0
140°	51.2
142.5°	68.9
145°	100.1
147.5°	355.5
150°	733.4
151°	857.5
152°	931.1
153°	963.9
154°	998.4
155°	1037.6
156°	1085.6
157°	1151.3
158°	1239.4
159°	1355.4
160°	1510.0
161°	1697.3



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CANDELA DISTRIBUTION (continued):

	0°
162°	1927.1
163°	2196.1
164°	2502.7
165°	2844.6
166°	3216.1
167°	3619.6
168°	4054.3
169°	4500.3
170°	4951.8
171°	5395.3
172°	5820.5
173°	6216.0
174°	6547.4
175°	6826.0
176°	7051.0
177°	7218.3
178°	7340.0
179°	7425.7
180°	7472.1

(END OF REPORT)