

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: P221861

Luminaire Tested: **9004-W2-[RW, RI]-LED3597-W-BK-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221861
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29494)
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-W-BK-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, WIDE FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3500K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3822.1 lumens
Efficiency: N/A
Efficacy: 66.8 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.83
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

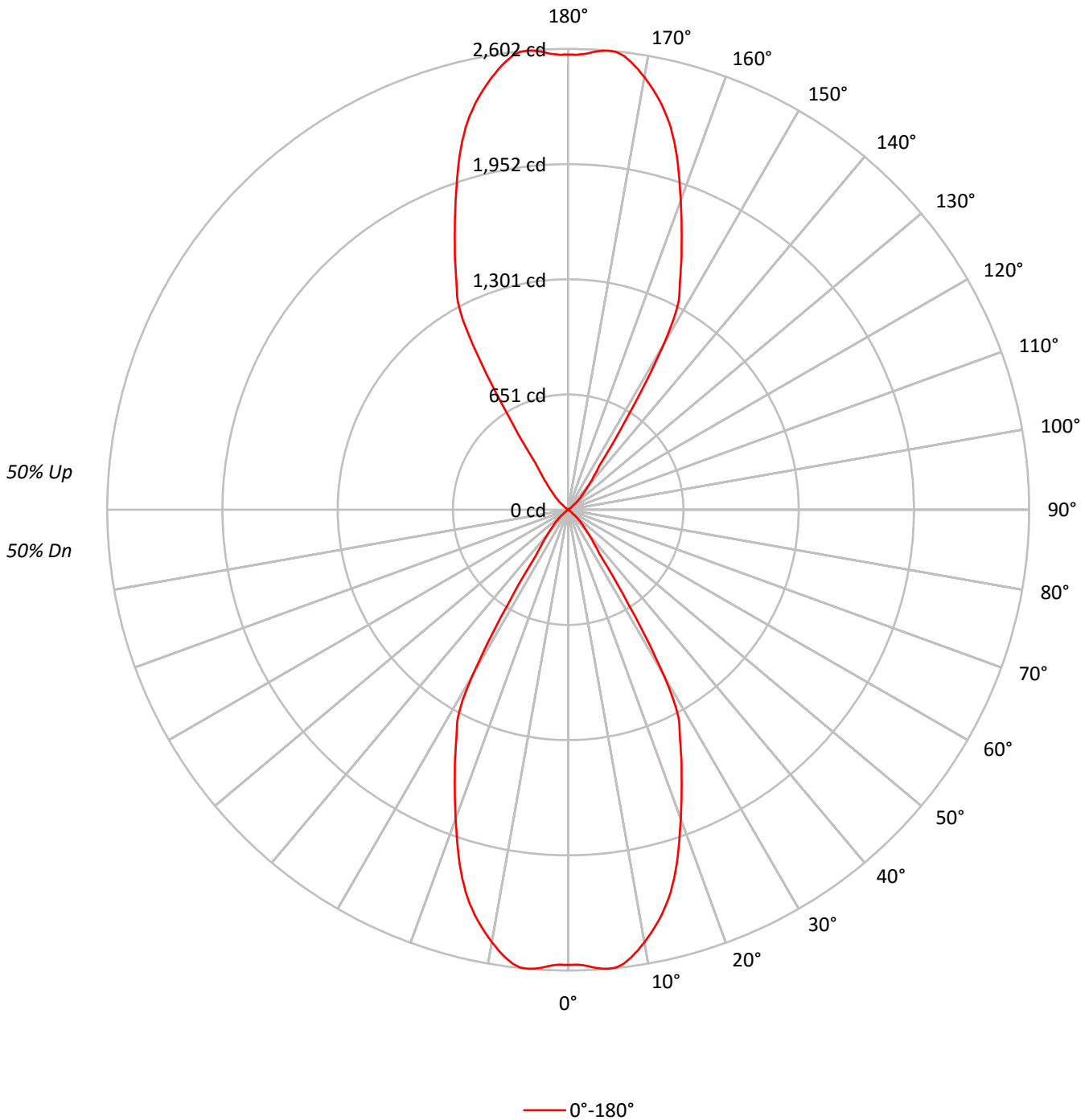
Input Watts (W): 57.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	91	93	90	87	85	77	75	74		65	64	63		53	53	52	47
2	94	88	83	79	87	82	78	75	71	68	66		60	59	57		51	50	49	44
3	88	80	75	70	81	75	70	67	65	62	59		56	54	52		48	47	45	42
4	82	74	68	63	76	69	64	60	61	57	54		53	50	48		46	44	42	39
5	77	68	62	57	72	64	58	54	57	52	49		50	47	44		43	41	40	37
6	72	63	56	52	68	59	54	50	53	49	45		47	44	41		41	39	37	35
7	68	58	52	47	64	55	50	46	49	45	42		44	41	38		39	37	35	33
8	64	54	48	44	60	52	46	42	46	42	39		41	38	36		37	35	33	31
9	61	51	45	40	57	48	43	39	44	39	36		39	36	34		35	33	31	29
10	58	48	42	38	54	45	40	36	41	37	34		37	34	32		33	31	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	316998
5°	322171
10°	310553
15°	285441
20°	243700
25°	204744
30°	153252
35°	48094
40°	28484
45°	17322
50°	7215
55°	1204
60°	789
65°	467
70°	289
75°	381
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.5	6.4
10°-20°	616.5	16.1
20°-30°	686.7	18.0
30°-40°	274.0	7.2
40°-50°	78.3	2.0
50°-60°	8.7	0.2
60°-70°	1.7	0.0
70°-80°	0.7	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.7	0.0
110°-120°	1.7	0.0
120°-130°	8.7	0.2
130°-140°	78.3	2.0
140°-150°	274.0	7.2
150°-160°	686.7	18.0
160°-170°	616.5	16.1
170°-180°	244.5	6.4
0°-30°	1547.7	40.5
0°-40°	1821.6	47.7
0°-60°	1908.6	49.9
0°-90°	1911.0	50.0
90°-120°	2.4	0.1
90°-150°	363.4	9.5
90°-180°	1911.0	50.0
0°-180°	3822.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2570	
5°	2602	244
15°	2235	617
25°	1504	687
35°	319	274
45°	99	78
55°	6	9
65°	2	2
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	2	2
125°	6	9
135°	99	78
145°	319	274
155°	1504	687
165°	2235	617
175°	2602	244
180°	2570	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2570.0
1°	2569.2
2°	2574.0
3°	2586.0
4°	2597.2
5°	2602.0
6°	2598.8
7°	2582.0
8°	2553.2
9°	2517.9
10°	2479.5
11°	2437.9
12°	2394.6
13°	2346.6
14°	2293.8
15°	2235.3
16°	2167.3
17°	2094.4
18°	2015.2
19°	1934.3
20°	1856.6
21°	1781.4
22°	1709.3
23°	1638.9
24°	1572.4
25°	1504.4
26°	1440.3
27°	1385.1
28°	1327.4
29°	1225.7
30°	1076.0
32.5°	629.3
35°	319.4
37.5°	236.2
40°	176.9
42.5°	131.3
45°	99.3
47.5°	73.7
50°	37.6
52.5°	9.6
55°	5.6
57.5°	4.0
60°	3.2
62.5°	2.4
65°	1.6



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.8
70°	0.8
72.5°	0.8
75°	0.8
77.5°	0.8
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.8
105°	0.8
107.5°	0.8
110°	0.8
112.5°	0.8
115°	1.6
117.5°	2.4
120°	3.2
122.5°	4.0
125°	5.6
127.5°	9.6
130°	37.6
132.5°	73.7
135°	99.3
137.5°	131.3
140°	176.9
142.5°	236.2
145°	319.4
147.5°	629.3
150°	1076.0
151°	1225.7
152°	1327.4
153°	1385.1
154°	1440.3
155°	1504.4
156°	1572.4
157°	1638.9
158°	1709.3
159°	1781.4
160°	1856.6
161°	1934.3



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CANDELA DISTRIBUTION (continued):

	0°
162°	2015.2
163°	2094.4
164°	2167.3
165°	2235.3
166°	2293.8
167°	2346.6
168°	2394.6
169°	2437.9
170°	2479.5
171°	2517.9
172°	2553.2
173°	2582.0
174°	2598.8
175°	2602.0
176°	2597.2
177°	2586.0
178°	2574.0
179°	2569.2
180°	2570.0

(END OF REPORT)