

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: P221864

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221864
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29490)
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-WT-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, WIDE FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 3500K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4159.4 lumens
Efficiency: N/A
Efficacy: 73.0 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.84 / 0.83
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

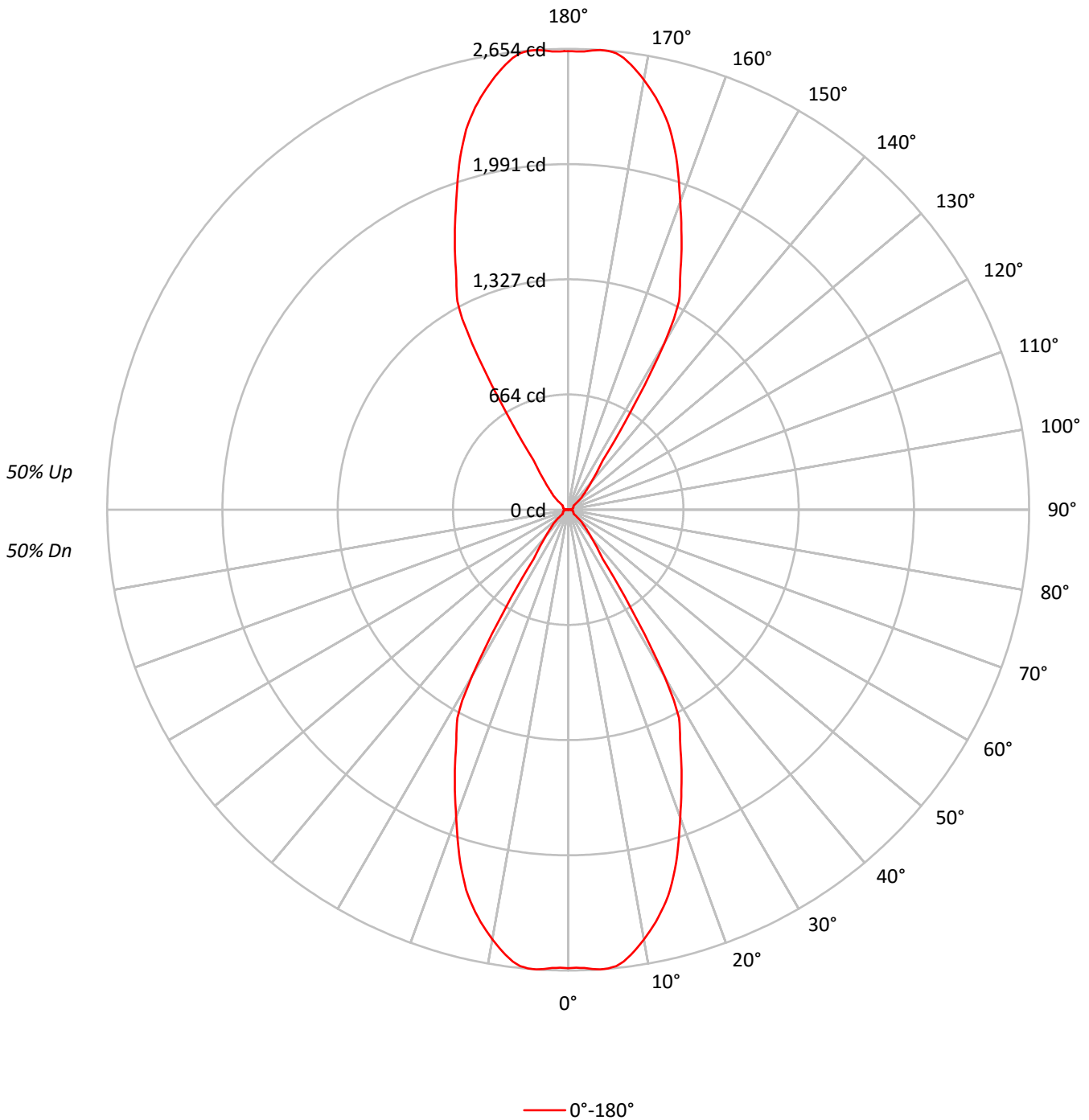
Input Watts (W): 57
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	96	93	90	92	89	87	84	76	74	73		64	63	62		53	52	51	46
2	93	87	82	78	86	81	77	73	70	67	64		59	57	56		50	48	47	43
3	87	79	73	69	80	74	69	65	64	61	58		55	53	51		47	45	44	40
4	81	72	66	61	75	68	62	58	59	55	52		51	49	46		44	42	41	37
5	76	67	60	55	71	63	57	53	55	51	48		48	45	43		42	40	38	35
6	71	61	55	50	66	58	52	48	51	47	44		45	42	39		39	37	35	33
7	67	57	50	46	63	54	48	44	48	43	40		42	39	37		37	35	33	31
8	63	53	46	42	59	50	44	40	45	40	37		40	37	34		35	33	31	29
9	60	49	43	39	56	47	41	37	42	38	35		38	34	32		34	31	29	28
10	56	46	40	36	53	44	38	35	40	35	32		36	32	30		32	30	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	325780
5°	328412
10°	314662
15°	289527
20°	247494
25°	208337
30°	157482
35°	52326
40°	33266
45°	22624
50°	13221
55°	7914
60°	8684
65°	9573
70°	10963
75°	13344
80°	15911
85°	15851



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.6	6.0
10°-20°	625.4	15.0
20°-30°	700.4	16.8
30°-40°	292.9	7.0
40°-50°	101.7	2.4
50°-60°	36.9	0.9
60°-70°	32.5	0.8
70°-80°	29.0	0.7
80°-90°	12.2	0.3
90°-100°	12.2	0.3
100°-110°	29.0	0.7
110°-120°	32.5	0.8
120°-130°	36.9	0.9
130°-140°	101.7	2.4
140°-150°	292.9	7.0
150°-160°	700.4	16.8
160°-170°	625.4	15.0
170°-180°	248.6	6.0
0°-30°	1574.4	37.9
0°-40°	1867.4	44.9
0°-60°	2006.1	48.2
0°-90°	2079.7	50.0
90°-120°	73.7	1.8
90°-150°	505.3	12.1
90°-180°	2080.0	50.0
0°-180°	4159.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2641	
5°	2652	249
15°	2267	625
25°	1531	700
35°	348	293
45°	130	102
55°	37	37
65°	33	33
75°	28	29
85°	11	12
90°	0	1
95°	11	12
105°	28	29
115°	33	33
125°	37	37
135°	130	102
145°	348	293
155°	1531	700
165°	2267	625
175°	2652	249
180°	2641	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2641.2
1°	2638.8
2°	2641.2
3°	2649.2
4°	2654.0
5°	2652.4
6°	2642.8
7°	2622.0
8°	2589.2
9°	2552.4
10°	2512.3
11°	2469.9
12°	2426.7
13°	2377.8
14°	2325.8
15°	2267.3
16°	2197.7
17°	2124.8
18°	2046.4
19°	1964.7
20°	1885.5
21°	1811.8
22°	1740.5
23°	1670.1
24°	1601.2
25°	1530.8
26°	1469.1
27°	1414.7
28°	1358.6
29°	1256.2
30°	1105.7
32.5°	662.9
35°	347.5
37.5°	265.8
40°	206.6
42.5°	160.9
45°	129.7
47.5°	104.1
50°	68.9
52.5°	40.8
55°	36.8
57.5°	36.0
60°	35.2
62.5°	34.4
65°	32.8



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	31.2
70°	30.4
72.5°	29.6
75°	28.0
77.5°	25.6
80°	22.4
82.5°	17.6
85°	11.2
87.5°	4.8
90°	0.0
92.5°	4.8
95°	11.2
97.5°	17.6
100°	22.4
102.5°	25.6
105°	28.0
107.5°	29.6
110°	30.4
112.5°	31.2
115°	32.8
117.5°	34.4
120°	35.2
122.5°	36.0
125°	36.8
127.5°	40.8
130°	68.9
132.5°	104.1
135°	129.7
137.5°	160.9
140°	206.6
142.5°	265.8
145°	347.5
147.5°	662.9
150°	1105.7
151°	1256.2
152°	1358.6
153°	1414.7
154°	1469.1
155°	1530.8
156°	1601.2
157°	1670.1
158°	1740.5
159°	1811.8
160°	1885.5
161°	1964.7



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CANDELA DISTRIBUTION (continued):

	0°
162°	2046.4
163°	2124.8
164°	2197.7
165°	2267.3
166°	2325.8
167°	2377.8
168°	2426.7
169°	2469.9
170°	2512.3
171°	2552.4
172°	2589.2
173°	2622.0
174°	2642.8
175°	2652.4
176°	2654.0
177°	2649.2
178°	2641.2
179°	2638.8
180°	2641.2

(END OF REPORT)