

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: P221859

Luminaire Tested: **9004-W2-[RW, RI]-LED3597-W-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221859
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-L1-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: 1597.6 lumens
Efficiency: N/A
Efficacy: 81.1 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

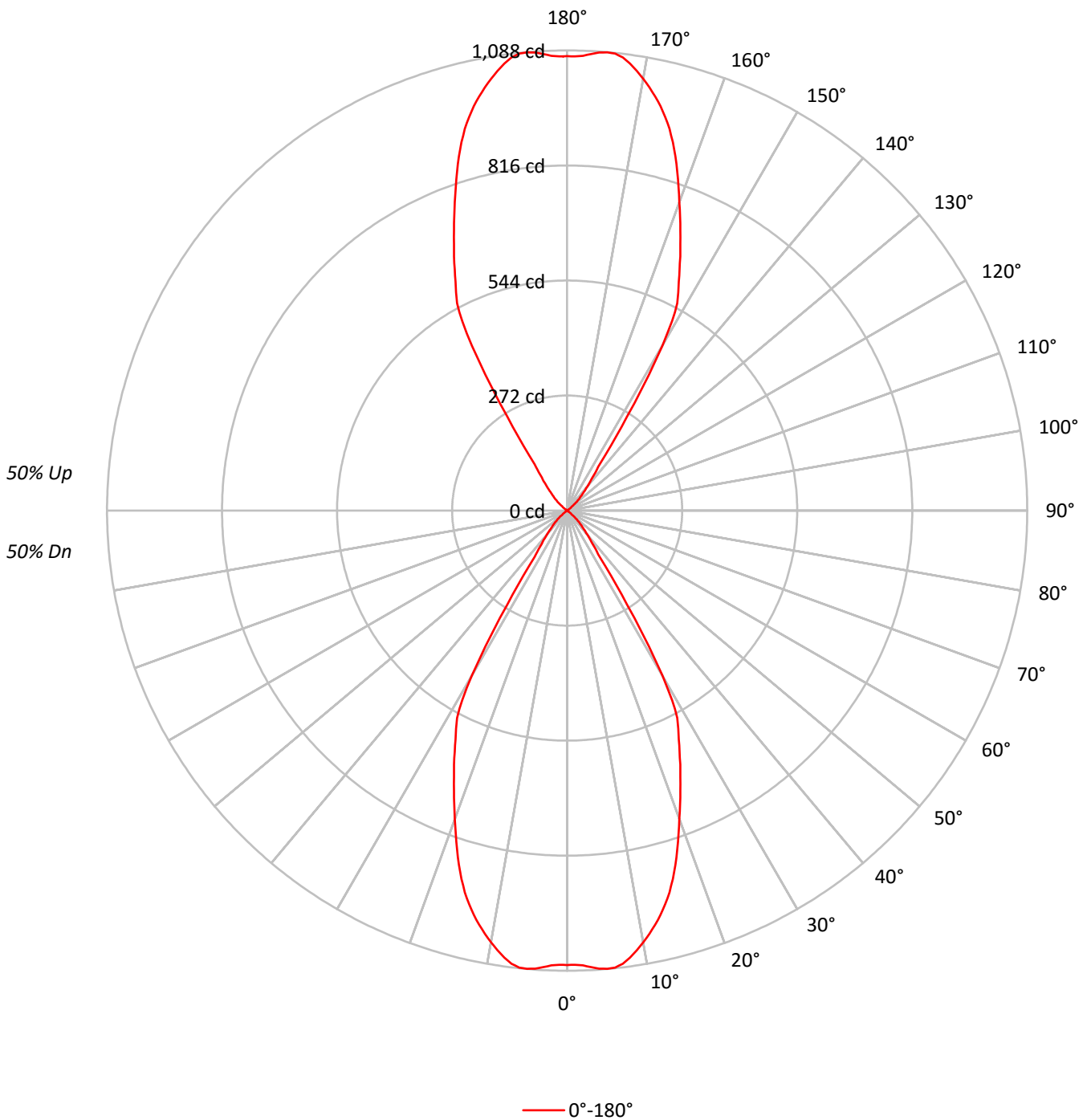
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	132523
5°	134676
10°	129820
15°	119333
20°	101872
25°	85591
30°	64064
35°	20102
40°	11915
45°	7239
50°	3013
55°	495
60°	321
65°	204
70°	108
75°	143
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.2	6.4
10°-20°	257.7	16.1
20°-30°	287.1	18.0
30°-40°	114.5	7.2
40°-50°	32.7	2.0
50°-60°	3.6	0.2
60°-70°	0.7	0.0
70°-80°	0.3	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.3	0.0
110°-120°	0.7	0.0
120°-130°	3.6	0.2
130°-140°	32.7	2.0
140°-150°	114.5	7.2
150°-160°	287.1	18.0
160°-170°	257.7	16.1
170°-180°	102.2	6.4
0°-30°	647.0	40.5
0°-40°	761.5	47.7
0°-60°	797.9	49.9
0°-90°	798.8	50.0
90°-120°	1.0	0.1
90°-150°	151.8	9.5
90°-180°	799.0	50.0
0°-180°	1597.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1074	
5°	1088	102
15°	934	258
25°	629	287
35°	134	115
45°	42	33
55°	2	4
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	1	1
125°	2	4
135°	42	33
145°	134	115
155°	629	287
165°	934	258
175°	1088	102
180°	1074	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1074.4
1°	1074.0
2°	1076.0
3°	1081.0
4°	1085.7
5°	1087.7
6°	1086.4
7°	1079.4
8°	1067.3
9°	1052.6
10°	1036.5
11°	1019.1
12°	1001.1
13°	981.0
14°	958.9
15°	934.5
16°	906.0
17°	875.5
18°	842.4
19°	808.6
20°	776.1
21°	744.7
22°	714.6
23°	685.1
24°	657.3
25°	628.9
26°	602.1
27°	579.0
28°	554.9
29°	512.4
30°	449.8
32.5°	263.1
35°	133.5
37.5°	98.7
40°	74.0
42.5°	54.9
45°	41.5
47.5°	30.8
50°	15.7
52.5°	4.0
55°	2.3
57.5°	1.7
60°	1.3
62.5°	1.0
65°	0.7



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.3
70°	0.3
72.5°	0.3
75°	0.3
77.5°	0.3
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°	0.3
105°	0.3
107.5°	0.3
110°	0.3
112.5°	0.3
115°	0.7
117.5°	1.0
120°	1.3
122.5°	1.7
125°	2.3
127.5°	4.0
130°	15.7
132.5°	30.8
135°	41.5
137.5°	54.9
140°	74.0
142.5°	98.7
145°	133.5
147.5°	263.1
150°	449.8
151°	512.4
152°	554.9
153°	579.0
154°	602.1
155°	628.9
156°	657.3
157°	685.1
158°	714.6
159°	744.7
160°	776.1
161°	808.6



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CANDELA DISTRIBUTION (continued):

	0°
162°	842.4
163°	875.5
164°	906.0
165°	934.5
166°	958.9
167°	981.0
168°	1001.1
169°	1019.1
170°	1036.5
171°	1052.6
172°	1067.3
173°	1079.4
174°	1086.4
175°	1087.7
176°	1085.7
177°	1081.0
178°	1076.0
179°	1074.0
180°	1074.4

(END OF REPORT)