

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: P221842

Luminaire Tested: **9004-W2-[RW, RI]-LED3597-F-BK-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221842
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29493)
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-F-BK-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3500K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3104.1 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.56
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

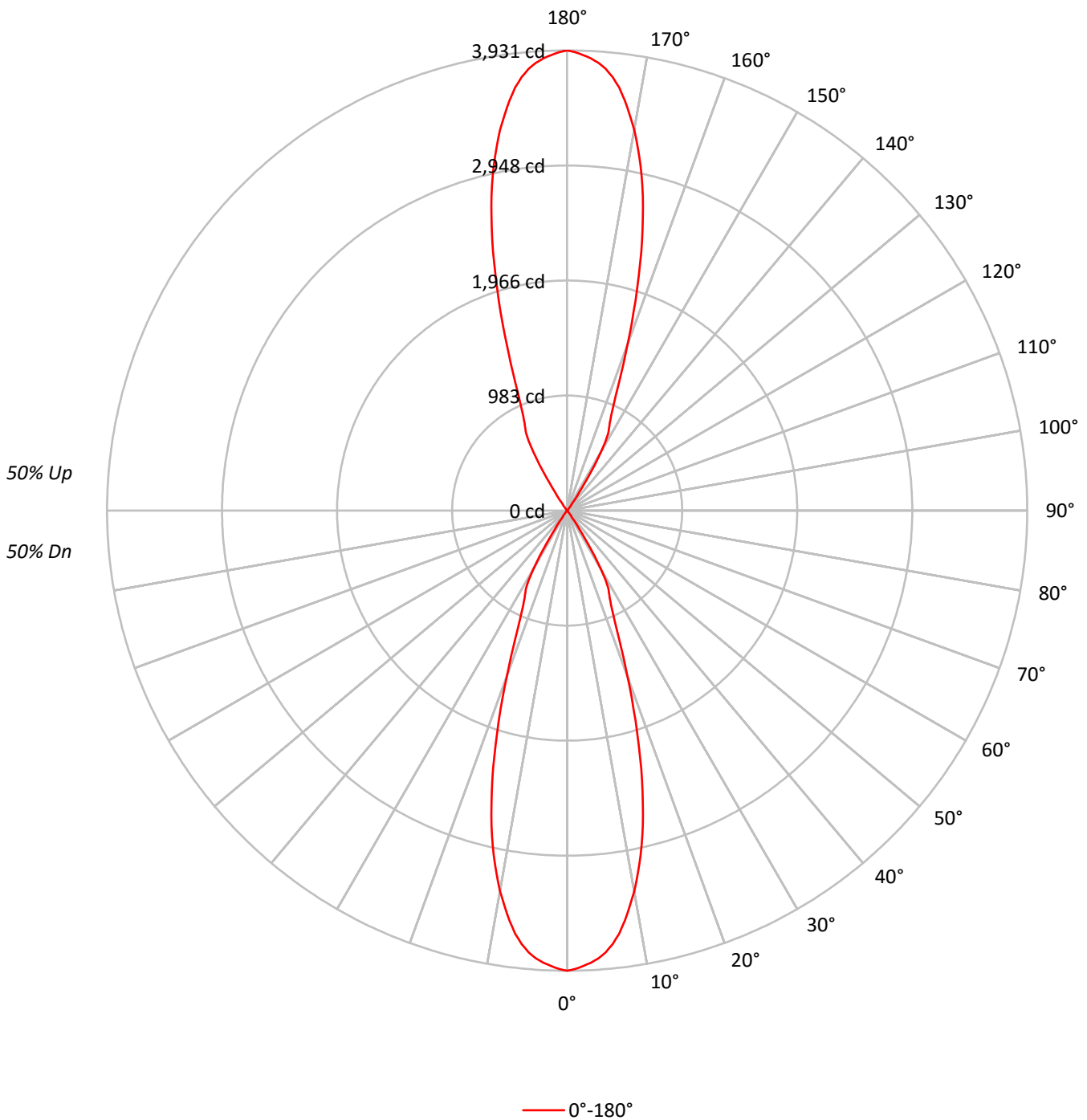
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	95	92	93	90	88	86	77	76	74	65	64	63	54	53	53	48
2	95	89	85	81	88	83	79	76	72	69	67	61	60	58	52	51	50	46
3	89	82	77	73	83	77	72	69	67	64	61	58	56	54	50	49	47	44
4	84	76	70	66	78	71	66	63	63	59	57	55	53	51	48	46	45	42
5	79	71	65	60	74	67	61	58	59	55	53	52	50	48	46	44	43	40
6	75	66	60	55	70	62	57	53	56	52	49	50	47	45	44	42	41	38
7	71	62	56	52	67	59	53	50	53	49	46	48	45	43	42	41	39	37
8	68	58	52	48	64	55	50	47	50	46	44	45	43	40	41	39	37	35
9	64	55	49	45	61	52	47	44	48	44	41	43	41	39	39	37	36	34
10	61	52	46	43	58	50	45	41	46	42	39	42	39	37	38	36	35	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	484859
5°	468808
10°	413395
15°	318259
20°	197431
25°	120772
30°	82209
35°	10887
40°	3092
45°	750
50°	595
55°	409
60°	296
65°	350
70°	216
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.9	11.1
10°-20°	668.6	21.5
20°-30°	428.7	13.8
30°-40°	101.0	3.3
40°-50°	4.8	0.2
50°-60°	1.9	0.1
60°-70°	1.0	0.0
70°-80°	0.2	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.4	0.0
110°-120°	1.0	0.0
120°-130°	1.9	0.1
130°-140°	4.8	0.2
140°-150°	101.0	3.3
150°-160°	428.7	13.8
160°-170°	668.6	21.5
170°-180°	345.9	11.1
0°-30°	1443.1	46.5
0°-40°	1544.2	49.7
0°-60°	1550.8	50.0
0°-90°	1552.0	50.0
90°-120°	1.4	0.0
90°-150°	109.1	3.5
90°-180°	1552.0	50.0
0°-180°	3104.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3931	
5°	3786	346
15°	2492	669
25°	887	429
35°	72	101
45°	4	5
55°	2	2
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	1	1
125°	2	2
135°	4	5
145°	72	101
155°	887	429
165°	2492	669
175°	3786	346
180°	3931	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3930.9
1°	3916.7
2°	3893.8
3°	3867.9
4°	3833.9
5°	3786.3
6°	3722.7
7°	3641.7
8°	3536.7
9°	3422.3
10°	3300.6
11°	3162.8
12°	3015.1
13°	2855.0
14°	2677.7
15°	2492.3
16°	2295.8
17°	2092.5
18°	1889.8
19°	1693.2
20°	1504.1
21°	1336.1
22°	1185.9
23°	1059.8
24°	964.0
25°	887.4
26°	829.9
27°	785.4
28°	745.9
29°	678.5
30°	577.2
32.5°	275.6
35°	72.3
37.5°	38.3
40°	19.2
42.5°	6.2
45°	4.3
47.5°	3.7
50°	3.1
52.5°	2.5
55°	1.9
57.5°	1.9
60°	1.2
62.5°	1.2
65°	1.2



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.6
70°	0.6
72.5°	0.6
75°	0.0
77.5°	0.0
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°	0.0
105°	0.0
107.5°	0.6
110°	0.6
112.5°	0.6
115°	1.2
117.5°	1.2
120°	1.2
122.5°	1.9
125°	1.9
127.5°	2.5
130°	3.1
132.5°	3.7
135°	4.3
137.5°	6.2
140°	19.2
142.5°	38.3
145°	72.3
147.5°	275.6
150°	577.2
151°	678.5
152°	745.9
153°	785.4
154°	829.9
155°	887.4
156°	964.0
157°	1059.8
158°	1185.9
159°	1336.1
160°	1504.1
161°	1693.2



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CANDELA DISTRIBUTION (continued):

	0°
162°	1889.8
163°	2092.5
164°	2295.8
165°	2492.3
166°	2677.7
167°	2855.0
168°	3015.1
169°	3162.8
170°	3300.6
171°	3422.3
172°	3536.7
173°	3641.7
174°	3722.7
175°	3786.3
176°	3833.9
177°	3867.9
178°	3893.8
179°	3916.7
180°	3930.9

(END OF REPORT)