

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: P221474

Luminaire Tested: **9003-W2-[RW, RI]-LED3597-S-BK-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221474
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29472)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9003-W2-[RW, RI]-LED3597-S-BK-L2-UNV
Description: LUMIERE LANTERRA 9003 LED WALL LUMINAIRE, RECESSED LENS, SPOT OPTIC, BLACK HOUSING.
Light Source: (1) 3500K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2431.1 lumens
Efficiency: N/A
Efficacy: 60.5 lumens/watt
Spacing Criteria (0/90/45): 0.27 / 0.27 / 0.27
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: General Diffuse

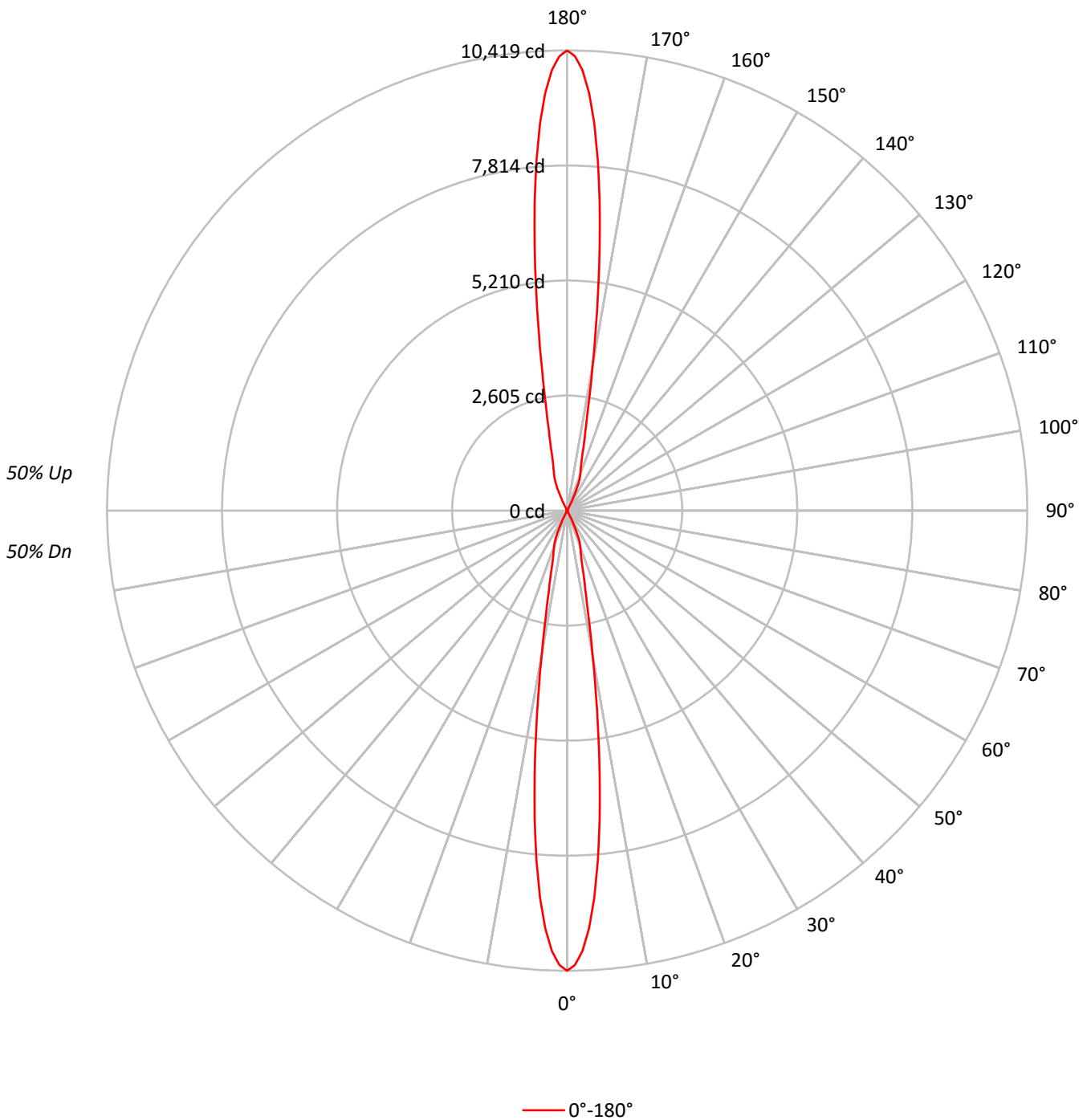
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P221474

CATALOG NUMBER: 9003-W2-[RW, RI]-LED3597-S-BK-L2-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P221474

CATALOG NUMBER: 9003-W2-[RW, RI]-LED3597-S-BK-L2-UNV

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	98	95	93	93	91	89	87	78	76	75	66	65	64	55	54	54	49
2	95	90	86	83	89	84	81	78	73	71	69	63	61	60	53	52	52	47
3	90	84	79	75	84	79	75	71	69	66	64	60	58	57	52	51	50	46
4	86	78	73	69	80	74	69	66	66	62	60	58	56	54	50	49	48	45
5	82	74	68	64	76	70	65	61	62	59	56	56	53	52	49	48	47	44
6	78	70	64	60	73	66	61	58	60	56	54	54	51	49	48	47	45	43
7	74	66	61	57	70	63	58	55	57	54	51	52	49	48	47	45	44	42
8	71	63	58	54	68	60	56	52	55	52	49	50	48	46	46	44	43	41
9	69	60	55	51	65	58	53	50	53	50	47	49	46	45	45	43	42	40
10	66	58	53	49	63	56	51	48	51	48	46	48	45	43	44	42	41	40

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2284729
5°	1750315
10°	734277
15°	309877
20°	201594
25°	88336
30°	11951
35°	4497
40°	3206
45°	2481
50°	2183
55°	2141
60°	1754
65°	1245
70°	513
75°	0
80°	0
85°	0



TEST NUMBER: P221474

CATALOG NUMBER: 9003-W2-[RW, RI]-LED3597-S-BK-L2-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	598.6	24.6
10°-20°	417.4	17.2
20°-30°	172.1	7.1
30°-40°	13.6	0.6
40°-50°	6.5	0.3
50°-60°	4.7	0.2
60°-70°	2.4	0.1
70°-80°	0.3	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.5	0.0
110°-120°	2.4	0.1
120°-130°	4.7	0.2
130°-140°	6.5	0.3
140°-150°	13.6	0.6
150°-160°	172.1	7.1
160°-170°	417.4	17.2
170°-180°	598.6	24.6
0°-30°	1188.1	48.9
0°-40°	1201.7	49.4
0°-60°	1212.9	49.9
0°-90°	1215.5	50.0
90°-120°	2.9	0.1
90°-150°	27.7	1.1
90°-180°	1216.0	50.0
0°-180°	2431.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10419	
5°	7952	599
15°	1365	417
25°	365	172
35°	17	14
45°	8	6
55°	6	5
65°	2	2
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	1
115°	2	2
125°	6	5
135°	8	6
145°	17	14
155°	365	172
165°	1365	417
175°	7952	599
180°	10419	



TEST NUMBER: P221474

CATALOG NUMBER: 9003-W2-[RW, RI]-LED3597-S-BK-L2-UNV

CANDELA DISTRIBUTION (FULL):

	0°
0°	10419.2
1°	10286.3
2°	9974.9
3°	9468.1
4°	8791.5
5°	7951.7
6°	7017.4
7°	6038.2
8°	5031.1
9°	4108.0
10°	3297.7
11°	2656.4
12°	2181.7
13°	1831.8
14°	1576.4
15°	1365.0
16°	1194.5
17°	1083.2
18°	997.6
19°	922.3
20°	863.9
21°	810.2
22°	728.6
23°	617.3
24°	490.8
25°	365.1
26°	253.8
27°	152.1
28°	84.9
29°	56.8
30°	47.2
32.5°	30.4
35°	16.8
37.5°	12.8
40°	11.2
42.5°	9.6
45°	8.0
47.5°	7.2
50°	6.4
52.5°	5.6
55°	5.6
57.5°	4.8
60°	4.0
62.5°	3.2
65°	2.4



TEST NUMBER: P221474

CATALOG NUMBER: 9003-W2-[RW, RI]-LED3597-S-BK-L2-UNV

CANDELA DISTRIBUTION (continued):

	0°
67.5°	1.6
70°	0.8
72.5°	0.8
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°	0.8
110°	0.8
112.5°	1.6
115°	2.4
117.5°	3.2
120°	4.0
122.5°	4.8
125°	5.6
127.5°	5.6
130°	6.4
132.5°	7.2
135°	8.0
137.5°	9.6
140°	11.2
142.5°	12.8
145°	16.8
147.5°	30.4
150°	47.2
151°	56.8
152°	84.9
153°	152.1
154°	253.8
155°	365.1
156°	490.8
157°	617.3
158°	728.6
159°	810.2
160°	863.9
161°	922.3



TEST NUMBER: P221474

CATALOG NUMBER: 9003-W2-[RW, RI]-LED3597-S-BK-L2-UNV

CANDELA DISTRIBUTION (continued):

	0°
162°	997.6
163°	1083.2
164°	1194.5
165°	1365.0
166°	1576.4
167°	1831.8
168°	2181.7
169°	2656.4
170°	3297.7
171°	4108.0
172°	5031.1
173°	6038.2
174°	7017.4
175°	7951.7
176°	8791.5
177°	9468.1
178°	9974.9
179°	10286.3
180°	10419.2

(END OF REPORT)