

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: P221257

Luminaire Tested: **9002-W2-[RW, RI]-LED3597-F-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221257
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29415)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9002-W2-[RW, RI]-LED3597-F-BK-L1-UNV
Description: LUMIERE LANTERRA 9002 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: 1601.4 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Spacing Criteria (0/90/45): 0.66 / 0.66 / 0.63
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: General Diffuse

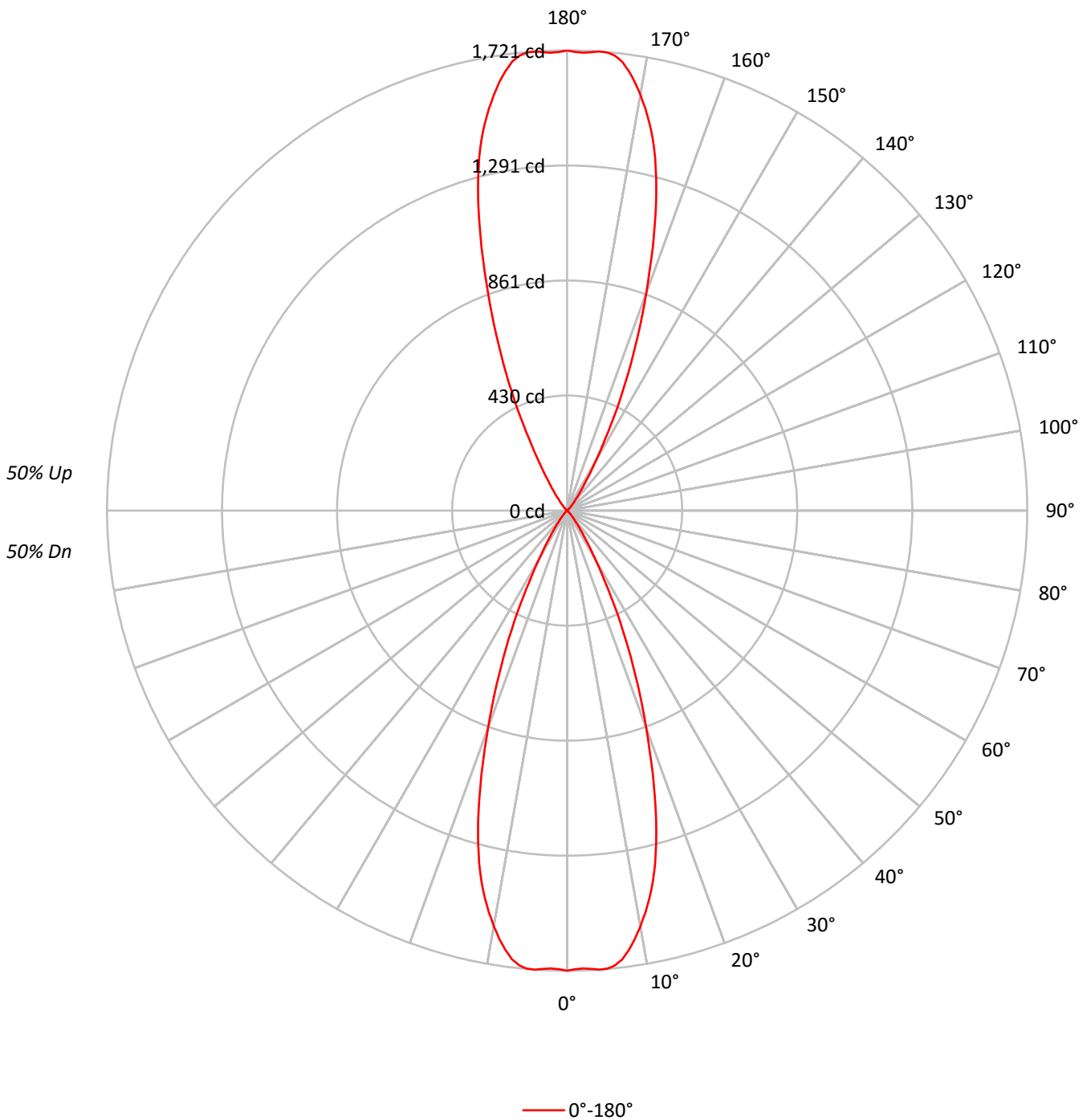
Input Watts (W): 20
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	89	85	81	87	83	79	76	72	69	67	61	60	58	52	51	50	46
3	89	82	76	72	82	77	72	68	67	64	61	58	56	54	50	48	47	43
4	84	76	70	65	78	71	66	62	63	59	56	55	52	50	47	46	45	41
5	79	70	64	60	74	66	61	57	59	55	52	52	49	47	45	44	42	40
6	75	65	59	55	70	62	57	53	55	51	49	49	47	44	44	42	40	38
7	71	61	55	51	66	58	53	49	52	48	46	47	44	42	42	40	38	36
8	67	58	52	47	63	55	50	46	50	46	43	45	42	40	40	38	37	35
9	64	54	48	45	60	52	47	43	47	43	40	43	40	38	39	37	35	33
10	61	51	46	42	57	49	44	41	45	41	38	41	38	36	37	35	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	849057
5°	851904
10°	790914
15°	657379
20°	453060
25°	267184
30°	119410
35°	50895
40°	20417
45°	7396
50°	2533
55°	688
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.8	10.0
10°-20°	346.5	21.6
20°-30°	224.6	14.0
30°-40°	59.0	3.7
40°-50°	9.9	0.6
50°-60°	1.1	0.1
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	1.1	0.1
130°-140°	9.9	0.6
140°-150°	59.0	3.7
150°-160°	224.6	14.0
160°-170°	346.5	21.6
170°-180°	159.8	10.0
0°-30°	730.8	45.6
0°-40°	789.8	49.3
0°-60°	800.7	50.0
0°-90°	800.7	50.0
90°-120°	0.0	0.0
90°-150°	69.9	4.4
90°-180°	801.0	50.0
0°-180°	1601.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1721	
5°	1720	160
15°	1287	347
25°	491	225
35°	84	59
45°	11	10
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	0	0
125°	1	1
135°	11	10
145°	84	59
155°	491	225
165°	1287	347
175°	1720	160
180°	1721	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1720.9
1°	1715.2
2°	1713.6
3°	1716.9
4°	1720.9
5°	1720.1
6°	1710.4
7°	1690.9
8°	1659.2
9°	1621.8
10°	1578.7
11°	1531.6
12°	1480.4
13°	1424.4
14°	1359.4
15°	1287.0
16°	1207.4
17°	1122.9
18°	1036.0
19°	947.4
20°	862.9
22.5°	667.1
25°	490.8
26°	425.8
27°	360.8
28°	302.3
29°	251.9
30°	209.6
32.5°	131.6
35°	84.5
37.5°	52.0
40°	31.7
42.5°	18.7
45°	10.6
47.5°	5.7
50°	3.3
52.5°	1.6
55°	0.8
57.5°	0.8
60°	0.0
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0



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CANDELA DISTRIBUTION (continued):

	0°
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°	0.0
110°	0.0
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.8
125°	0.8
127.5°	1.6
130°	3.3
132.5°	5.7
135°	10.6
137.5°	18.7
140°	31.7
142.5°	52.0
145°	84.5
147.5°	131.6
150°	209.6
151°	251.9
152°	302.3
153°	360.8
154°	425.8
155°	490.8
157.5°	667.1
160°	862.9
161°	947.4
162°	1036.0
163°	1122.9
164°	1207.4
165°	1287.0
166°	1359.4
167°	1424.4



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CANDELA DISTRIBUTION (continued):

	0°
168°	1480.4
169°	1531.6
170°	1578.7
171°	1621.8
172°	1659.2
173°	1690.9
174°	1710.4
175°	1720.1
176°	1720.9
177°	1716.9
178°	1713.6
179°	1715.2
180°	1720.9

(END OF REPORT)