

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: P221253

Luminaire Tested: **9002-W2-[RW, RI]-LED3590-S-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221253
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29413)
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]-LED3590-S-BK-L1-UNV
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, RECESSED LENS, SPOT OPTIC, BLACK HOUSING.
Light Source: (1) 3500K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 821.4 lumens
Efficiency: N/A
Efficacy: 41.1 lumens/watt
Spacing Criteria (0/90/45): 0.25 / 0.25 / 0.25
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: General Diffuse

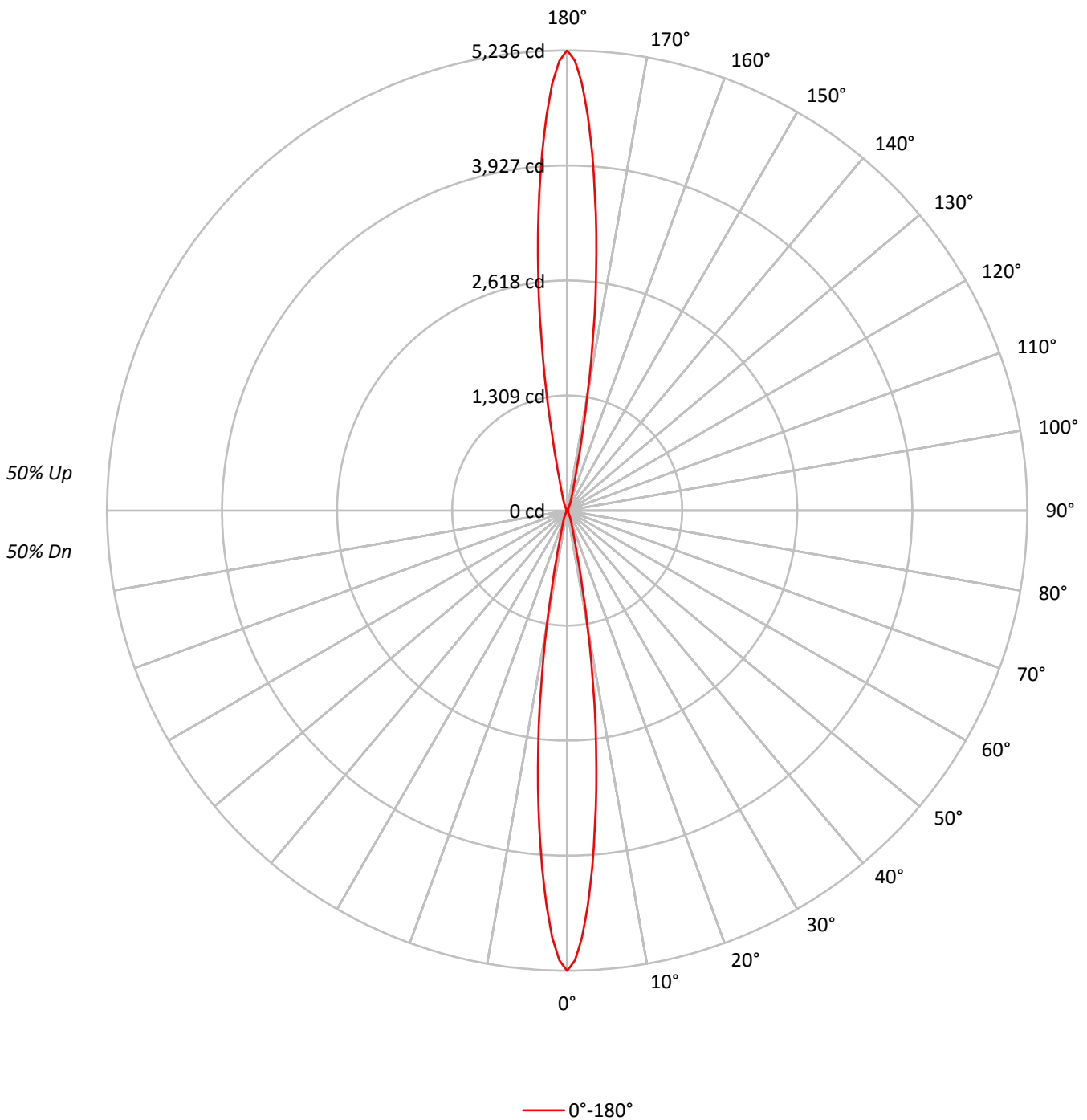
Input Watts (W): 20
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	96	93	94	91	89	87	78	77	76		66	65	65		55	55	54	49
2	96	91	87	84	89	85	82	79	74	72	70		63	62	61		54	53	53	48
3	91	85	80	76	85	80	76	73	70	67	65		61	59	58		53	52	51	48
4	87	80	75	71	81	75	71	68	67	64	62		59	57	56		52	51	50	47
5	83	75	70	66	78	71	67	64	64	61	59		57	55	54		51	50	49	46
6	79	72	66	63	75	68	64	60	62	59	56		56	54	52		50	49	48	46
7	76	68	63	60	72	65	61	58	60	56	54		54	52	50		49	48	47	45
8	74	66	60	57	70	63	58	55	58	55	52		53	51	49		48	47	46	44
9	71	63	58	55	68	61	56	53	56	53	51		52	50	48		48	46	45	44
10	69	61	56	53	66	59	55	52	55	52	49		51	49	47		47	46	45	43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2583483
5°	1793995
10°	666268
15°	142866
20°	63845
25°	31193
30°	10369
35°	4698
40°	2769
45°	1814
50°	1305
55°	0
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.2	33.0
10°-20°	104.3	12.7
20°-30°	27.3	3.3
30°-40°	5.6	0.7
40°-50°	1.9	0.2
50°-60°	0.4	0.0
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°	0.6	0.1
130°-140°	1.9	0.2
140°-150°	5.6	0.7
150°-160°	27.3	3.3
160°-170°	104.3	12.7
170°-180°	271.2	33.0
0°-30°	402.8	49.0
0°-40°	408.4	49.7
0°-60°	410.7	50.0
0°-90°	410.7	50.0
90°-120°	0.0	0.0
90°-150°	8.0	1.0
90°-180°	411.0	50.0
0°-180°	821.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5236	
5°	3622	271
15°	280	104
25°	57	27
35°	8	6
45°	3	2
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	0	0
125°	0	1
135°	3	2
145°	8	6
155°	57	27
165°	280	104
175°	3622	271
180°	5236	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5236.3
1°	5116.4
2°	4859.3
3°	4497.0
4°	4074.9
5°	3622.3
6°	3169.7
7°	2704.1
8°	2228.1
9°	1761.6
10°	1329.9
11°	960.7
12°	676.7
13°	481.2
14°	357.9
15°	279.7
17.5°	172.0
20°	121.6
22.5°	88.6
25°	57.3
27.5°	33.0
30°	18.2
32.5°	11.3
35°	7.8
37.5°	6.1
40°	4.3
42.5°	2.6
45°	2.6
47.5°	1.7
50°	1.7
52.5°	0.9
55°	0.0
57.5°	0.0
60°	0.0
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0



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CANDELA DISTRIBUTION (continued):

	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°	0.0
125°	0.0
127.5°	0.9
130°	1.7
132.5°	1.7
135°	2.6
137.5°	2.6
140°	4.3
142.5°	6.1
145°	7.8
147.5°	11.3
150°	18.2
152.5°	33.0
155°	57.3
157.5°	88.6
160°	121.6
162.5°	172.0
165°	279.7
166°	357.9
167°	481.2
168°	676.7
169°	960.7
170°	1329.9
171°	1761.6
172°	2228.1
173°	2704.1
174°	3169.7
175°	3622.3
176°	4074.9
177°	4497.0
178°	4859.3
179°	5116.4



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CANDELA DISTRIBUTION (continued):

180° | $\frac{0^\circ}{5236.3}$

(END OF REPORT)