

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: P221449

Luminaire Tested: **9003-W2-[RW, RI]-LED3590-F-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221449
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29474)
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]-LED3590-F-BK-L1-UNV
Description: LUMIERE LANTERRA 9003 LED WALL LUMINAIRE, RECESSED LENS, FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3500K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1428.0 lumens
Efficiency: N/A
Efficacy: 72.9 lumens/watt
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.56
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: General Diffuse

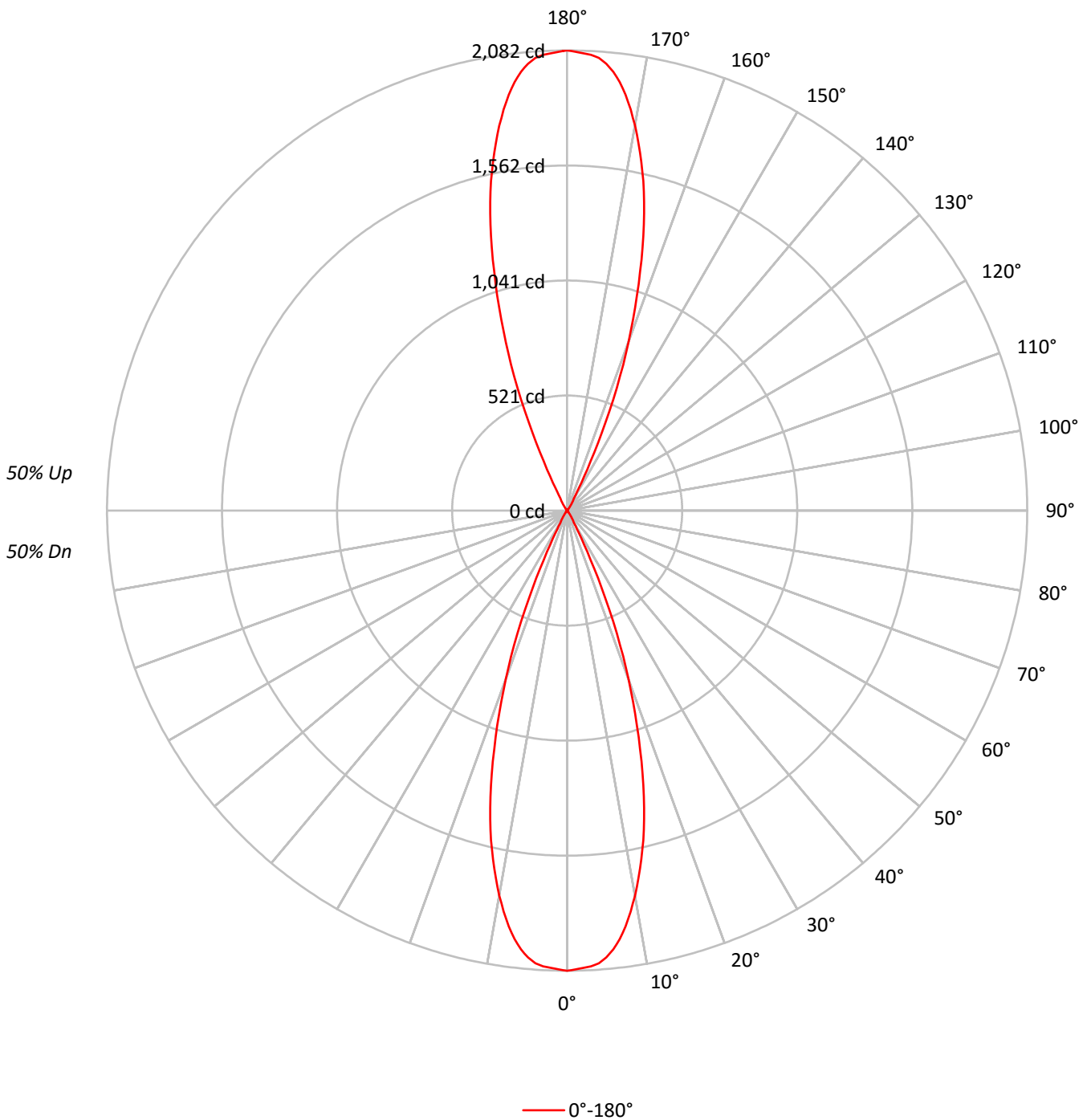
Input Watts (W): 19.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P221449

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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	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	92	93	91	88	86	77	76	74	65	64	64	54	54	53	48																												
2	95	90	85	82	88	84	80	77	72	70	68	62	60	59	52	51	51	46																												
3	89	83	77	73	83	78	73	70	68	65	62	59	57	55	50	49	48	45																												
4	84	77	71	67	79	72	67	64	64	60	58	56	54	52	49	47	46	43																												
5	80	72	66	61	75	68	63	59	60	57	54	53	51	49	47	45	44	41																												
6	76	67	61	57	71	64	59	55	57	53	51	51	48	46	45	44	42	40																												
7	72	63	57	53	68	60	55	51	54	51	48	49	46	44	44	42	41	39																												
8	69	60	54	50	65	57	52	48	52	48	45	47	44	42	42	41	39	37																												
9	66	57	51	47	62	54	49	46	50	46	43	45	42	41	41	39	38	36																												
10	63	54	48	45	60	52	47	44	47	44	41	44	41	39	40	38	37	35																												

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	456564
5°	446730
10°	393713
15°	304202
20°	188923
25°	69996
30°	14660
35°	5514
40°	2004
45°	1364
50°	1194
55°	994
60°	789
65°	467
70°	256
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.3	13.0
10°-20°	359.6	25.2
20°-30°	146.5	10.3
30°-40°	15.5	1.1
40°-50°	3.6	0.3
50°-60°	2.4	0.2
60°-70°	1.0	0.1
70°-80°	0.2	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.3	0.0
110°-120°	1.0	0.1
120°-130°	2.4	0.2
130°-140°	3.6	0.3
140°-150°	15.5	1.1
150°-160°	146.5	10.3
160°-170°	359.6	25.2
170°-180°	185.3	13.0
0°-30°	691.4	48.4
0°-40°	706.9	49.5
0°-60°	712.8	49.9
0°-90°	714.0	50.0
90°-120°	1.3	0.1
90°-150°	22.7	1.6
90°-180°	714.0	50.0
0°-180°	1428.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2082	
5°	2030	185
15°	1340	360
25°	289	146
35°	21	15
45°	4	4
55°	3	2
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	1	1
125°	3	2
135°	4	4
145°	21	15
155°	289	146
165°	1340	360
175°	2030	185
180°	2082	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2082.1
1°	2076.8
2°	2070.7
3°	2065.0
4°	2053.6
5°	2029.5
6°	1996.6
7°	1953.7
8°	1898.9
9°	1836.6
10°	1768.2
11°	1693.3
12°	1613.5
13°	1530.2
14°	1439.1
15°	1340.0
16°	1239.2
17°	1127.4
18°	1023.1
19°	914.4
20°	809.6
21°	707.5
22°	599.2
23°	488.7
24°	384.0
25°	289.3
26°	207.3
27°	141.1
28°	93.4
29°	69.3
30°	57.9
32.5°	38.1
35°	20.6
37.5°	11.4
40°	7.0
42.5°	5.3
45°	4.4
47.5°	3.9
50°	3.5
52.5°	3.1
55°	2.6
57.5°	2.2
60°	1.8
62.5°	1.3
65°	0.9



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CATALOG NUMBER: 9003-W2-[RW, RI]-LED3590-F-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.9
70°	0.4
72.5°	0.4
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°	0.4
110°	0.4
112.5°	0.9
115°	0.9
117.5°	1.3
120°	1.8
122.5°	2.2
125°	2.6
127.5°	3.1
130°	3.5
132.5°	3.9
135°	4.4
137.5°	5.3
140°	7.0
142.5°	11.4
145°	20.6
147.5°	38.1
150°	57.9
151°	69.3
152°	93.4
153°	141.1
154°	207.3
155°	289.3
156°	384.0
157°	488.7
158°	599.2
159°	707.5
160°	809.6
161°	914.4



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CANDELA DISTRIBUTION (continued):

	0°
162°	1023.1
163°	1127.4
164°	1239.2
165°	1340.0
166°	1439.1
167°	1530.2
168°	1613.5
169°	1693.3
170°	1768.2
171°	1836.6
172°	1898.9
173°	1953.7
174°	1996.6
175°	2029.5
176°	2053.6
177°	2065.0
178°	2070.7
179°	2076.8
180°	2082.1

(END OF REPORT)