

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: P221249

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221249  
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]-LED3590-F-BK-L1-UNV  
Description: LUMIERE LANTERRA 9002 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: 1712.1 lumens  
Efficiency: N/A  
Efficacy: 85.6 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

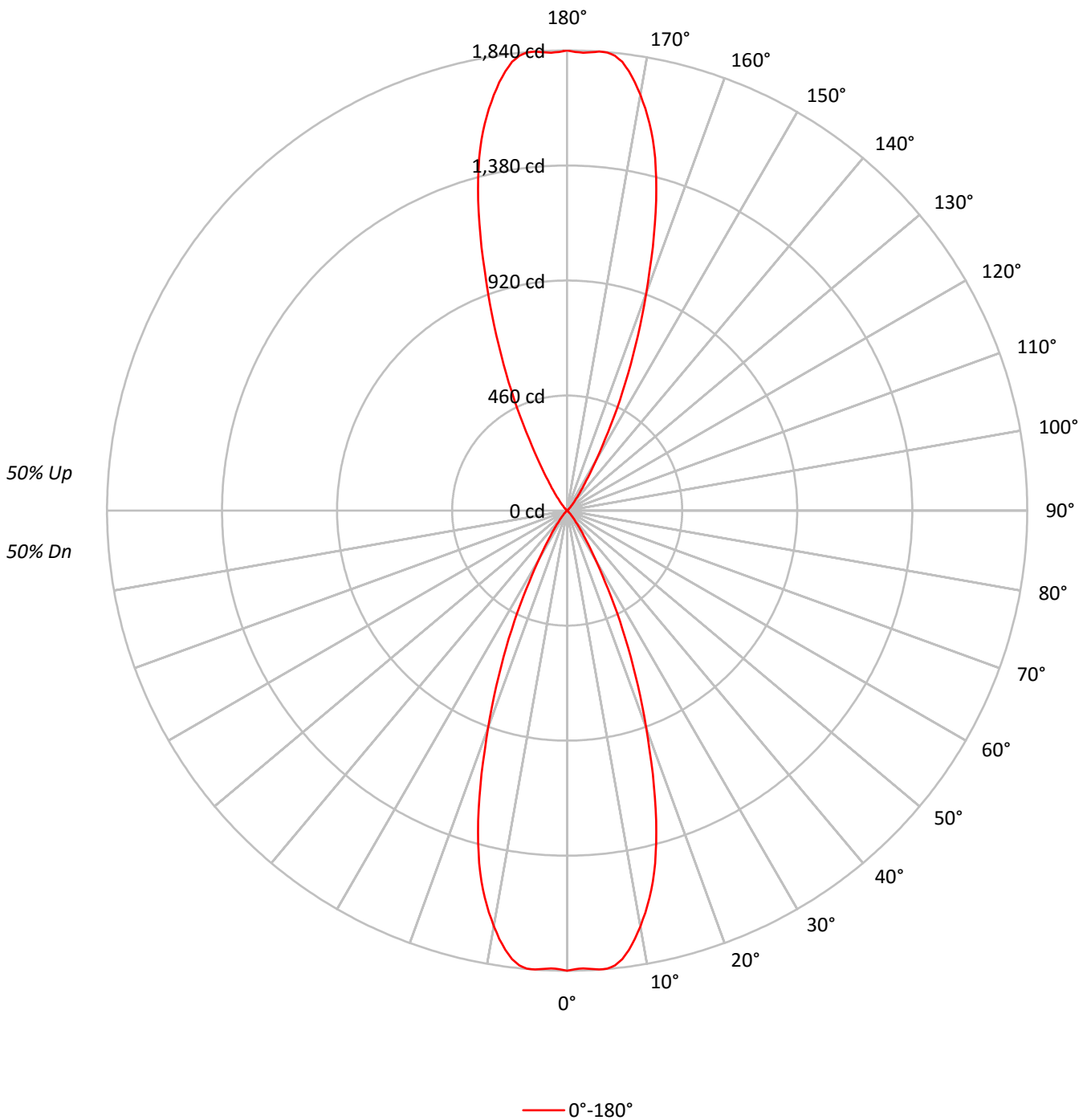
Input Watts (W): 20  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	44	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°	907720
5°	910741
10°	845572
15°	702788
20°	484353
25°	285638
30°	127671
35°	54388
40°	21834
45°	7885
50°	2686
55°	774
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	170.8	10.0
10°-20°	370.4	21.6
20°-30°	240.1	14.0
30°-40°	63.0	3.7
40°-50°	10.6	0.6
50°-60°	1.2	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°	1.2	0.1
130°-140°	10.6	0.6
140°-150°	63.0	3.7
150°-160°	240.1	14.0
160°-170°	370.4	21.6
170°-180°	170.8	10.0
0°-30°	781.3	45.6
0°-40°	844.3	49.3
0°-60°	856.0	50.0
0°-90°	856.0	50.0
90°-120°	0.0	0.0
90°-150°	74.7	4.4
90°-180°	856.0	50.0
0°-180°	1712.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1840	
5°	1839	171
15°	1376	370
25°	525	240
35°	90	63
45°	11	11
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	11
145°	90	63
155°	525	240
165°	1376	370
175°	1839	171
180°	1840	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1839.8
1°	1833.7
2°	1832.0
3°	1835.5
4°	1839.8
5°	1838.9
6°	1828.5
7°	1807.7
8°	1773.8
9°	1733.8
10°	1687.8
11°	1637.4
12°	1582.7
13°	1522.7
14°	1453.3
15°	1375.9
16°	1290.8
17°	1200.5
18°	1107.5
19°	1012.8
20°	922.5
22.5°	713.2
25°	524.7
26°	455.2
27°	385.7
28°	323.1
29°	269.3
30°	224.1
32.5°	140.7
35°	90.3
37.5°	55.6
40°	33.9
42.5°	20.0
45°	11.3
47.5°	6.1
50°	3.5
52.5°	1.7
55°	0.9
57.5°	0.9
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°	0.9
125°	0.9
127.5°	1.7
130°	3.5
132.5°	6.1
135°	11.3
137.5°	20.0
140°	33.9
142.5°	55.6
145°	90.3
147.5°	140.7
150°	224.1
151°	269.3
152°	323.1
153°	385.7
154°	455.2
155°	524.7
157.5°	713.2
160°	922.5
161°	1012.8
162°	1107.5
163°	1200.5
164°	1290.8
165°	1375.9
166°	1453.3
167°	1522.7



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**CANDELA DISTRIBUTION (continued):**

	0°
168°	1582.7
169°	1637.4
170°	1687.8
171°	1733.8
172°	1773.8
173°	1807.7
174°	1828.5
175°	1838.9
176°	1839.8
177°	1835.5
178°	1832.0
179°	1833.7
180°	1839.8

(END OF REPORT)