

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: P221817

Luminaire Tested: **9004-W2-[RW, RI]-LED3590-F-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221817
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29493)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9004-W2-[RW, RI]-LED3590-F-BK-L1-UNV
Description: LUMIERE LANTERRA 9004 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: 1697.4 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.56
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

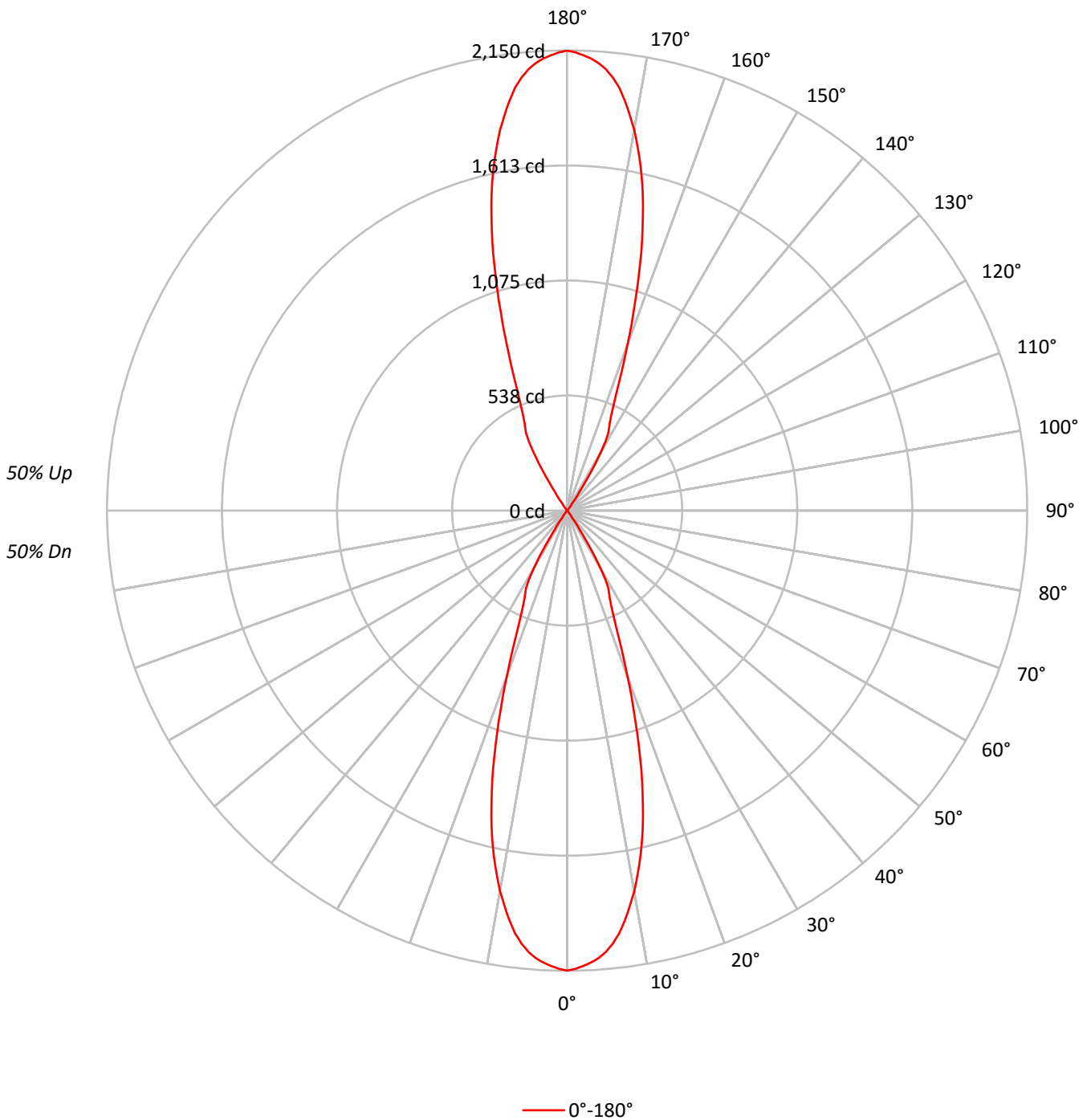
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	89	85	81	88	83	79	76	72	69	67	61	60	58	52	51	50	46
3	89	82	77	73	83	77	72	69	67	64	61	58	56	54	50	49	47	44
4	84	76	70	66	78	71	66	63	63	59	57	55	53	51	48	46	45	42
5	79	71	65	60	74	67	61	58	59	55	53	52	50	48	46	44	43	40
6	75	66	60	55	70	62	57	53	56	52	49	50	47	45	44	42	41	38
7	71	62	56	52	67	59	53	50	53	49	46	48	45	43	42	41	39	37
8	68	58	52	48	64	55	50	47	50	46	44	45	43	40	41	39	37	35
9	64	55	49	45	61	52	47	44	48	44	41	43	41	39	39	37	36	34
10	61	52	46	43	58	50	45	41	46	42	39	42	39	37	38	36	35	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	265131
5°	256350
10°	226048
15°	174025
20°	107963
25°	66034
30°	44950
35°	5948
40°	1691
45°	419
50°	326
55°	215
60°	173
65°	204
70°	108
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.1	11.1
10°-20°	365.6	21.5
20°-30°	234.4	13.8
30°-40°	55.2	3.3
40°-50°	2.6	0.2
50°-60°	1.0	0.1
60°-70°	0.5	0.0
70°-80°	0.1	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.2	0.0
110°-120°	0.5	0.0
120°-130°	1.0	0.1
130°-140°	2.6	0.2
140°-150°	55.2	3.3
150°-160°	234.4	13.8
160°-170°	365.6	21.5
170°-180°	189.1	11.1
0°-30°	789.1	46.5
0°-40°	844.4	49.7
0°-60°	848.0	50.0
0°-90°	848.7	50.0
90°-120°	0.7	0.0
90°-150°	59.6	3.5
90°-180°	849.0	50.0
0°-180°	1697.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2150	
5°	2070	189
15°	1363	366
25°	485	234
35°	40	55
45°	2	3
55°	1	1
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	1	1
125°	1	1
135°	2	3
145°	40	55
155°	485	234
165°	1363	366
175°	2070	189
180°	2150	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2149.5
1°	2141.7
2°	2129.2
3°	2115.0
4°	2096.4
5°	2070.4
6°	2035.6
7°	1991.3
8°	1933.9
9°	1871.4
10°	1804.8
11°	1729.4
12°	1648.7
13°	1561.2
14°	1464.2
15°	1362.8
16°	1255.3
17°	1144.2
18°	1033.3
19°	925.9
20°	822.5
21°	730.6
22°	648.5
23°	579.5
24°	527.1
25°	485.2
26°	453.8
27°	429.5
28°	407.9
29°	371.0
30°	315.6
32.5°	150.7
35°	39.5
37.5°	21.0
40°	10.5
42.5°	3.4
45°	2.4
47.5°	2.0
50°	1.7
52.5°	1.4
55°	1.0
57.5°	1.0
60°	0.7
62.5°	0.7
65°	0.7



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.3
70°	0.3
72.5°	0.3
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°	0.3
110°	0.3
112.5°	0.3
115°	0.7
117.5°	0.7
120°	0.7
122.5°	1.0
125°	1.0
127.5°	1.4
130°	1.7
132.5°	2.0
135°	2.4
137.5°	3.4
140°	10.5
142.5°	21.0
145°	39.5
147.5°	150.7
150°	315.6
151°	371.0
152°	407.9
153°	429.5
154°	453.8
155°	485.2
156°	527.1
157°	579.5
158°	648.5
159°	730.6
160°	822.5
161°	925.9



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CANDELA DISTRIBUTION (continued):

	0°
162°	1033.3
163°	1144.2
164°	1255.3
165°	1362.8
166°	1464.2
167°	1561.2
168°	1648.7
169°	1729.4
170°	1804.8
171°	1871.4
172°	1933.9
173°	1991.3
174°	2035.6
175°	2070.4
176°	2096.4
177°	2115.0
178°	2129.2
179°	2141.7
180°	2149.5

(END OF REPORT)