

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: P221333

Luminaire Tested: **9002-W2-FL-LED3590-F-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221333
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29423)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9002-W2-FL-LED3590-F-BK-L1-UNV
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, FLUSH LENS, FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3500K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

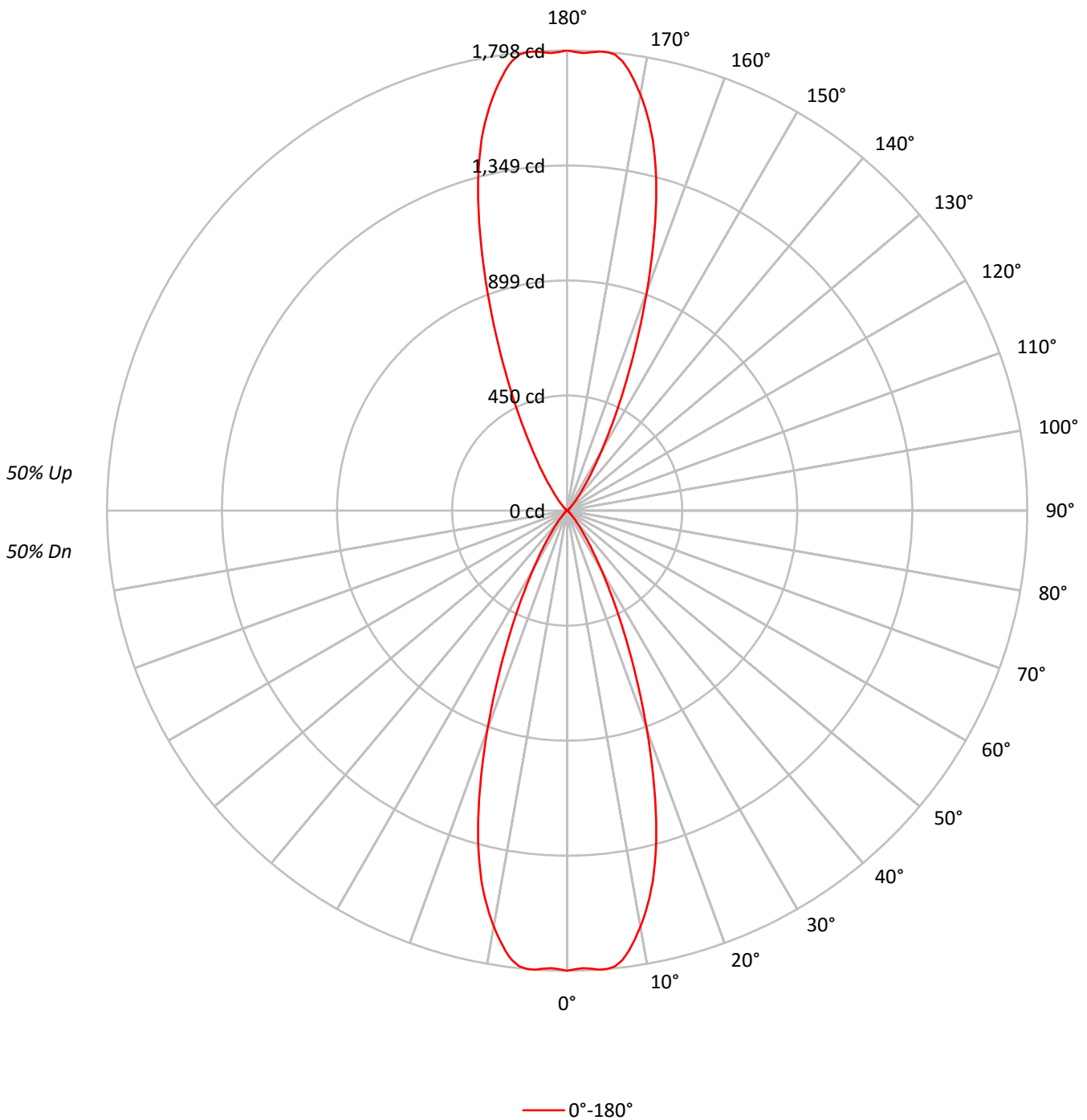
Lumens per Lamp: N/A
Luminaire Lumens: 1763.1 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Spacing Criteria (0/90/45): 0.66 / 0.66 / 0.63
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 20
Input Voltage (V): 120
Input Current (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



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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	100	97	94	92	93	90	88	86	77	75	74		65	64	63		54	53	53	48
2	94	89	84	80	87	83	79	76	71	69	67		61	59	58		51	50	50	45
3	88	81	76	72	82	76	72	68	67	63	61		58	55	53		49	48	47	43
4	83	75	69	65	77	71	66	62	62	58	56		54	52	50		47	45	44	41
5	78	70	63	59	73	66	60	56	58	54	51		51	49	46		45	43	42	39
6	74	65	59	54	69	61	56	52	55	51	48		49	46	44		43	41	40	37
7	70	61	54	50	66	57	52	48	52	48	45		46	43	41		41	39	38	35
8	66	57	51	47	62	54	49	45	49	45	42		44	41	39		39	37	36	34
9	63	53	48	44	59	51	46	42	46	42	40		42	39	37		38	36	34	32
10	60	50	45	41	57	48	43	40	44	40	37		40	37	35		36	34	33	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	887146
5°	890535
10°	826835
15°	686392
20°	478000
25°	286564
30°	151428
35°	72216
40°	33556
45°	14513
50°	7369
55°	3699
60°	2566
65°	1985
70°	2452
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.1	9.5
10°-20°	362.6	20.6
20°-30°	244.3	13.9
30°-40°	82.0	4.7
40°-50°	18.5	1.0
50°-60°	4.6	0.3
60°-70°	2.0	0.1
70°-80°	0.5	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.7	0.0
110°-120°	2.0	0.1
120°-130°	4.6	0.3
130°-140°	18.5	1.0
140°-150°	82.0	4.7
150°-160°	244.3	13.9
160°-170°	362.6	20.6
170°-180°	167.1	9.5
0°-30°	774.0	43.9
0°-40°	856.0	48.6
0°-60°	879.1	49.9
0°-90°	881.5	50.0
90°-120°	2.7	0.2
90°-150°	107.8	6.1
90°-180°	882.0	50.0
0°-180°	1763.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1798	
5°	1798	167
15°	1344	363
25°	526	244
35°	120	82
45°	21	18
55°	4	5
65°	2	2
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	1
115°	2	2
125°	4	5
135°	21	18
145°	120	82
155°	526	244
165°	1344	363
175°	1798	167
180°	1798	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1798.1
1°	1792.0
2°	1788.6
3°	1792.9
4°	1798.1
5°	1798.1
6°	1791.2
7°	1770.3
8°	1736.4
9°	1694.7
10°	1650.4
11°	1600.9
12°	1547.1
13°	1486.3
14°	1418.5
15°	1343.8
16°	1261.3
17°	1176.2
18°	1086.7
19°	998.1
20°	910.4
21°	825.2
22°	743.6
23°	666.3
24°	594.2
25°	526.4
26°	463.9
27°	407.4
28°	354.4
29°	307.5
30°	265.8
32.5°	179.8
35°	119.9
37.5°	79.9
40°	52.1
42.5°	32.1
45°	20.8
47.5°	13.9
50°	9.6
52.5°	6.9
55°	4.3
57.5°	3.5
60°	2.6
62.5°	2.6
65°	1.7



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	1.7
70°	1.7
72.5°	0.9
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°	0.9
110°	1.7
112.5°	1.7
115°	1.7
117.5°	2.6
120°	2.6
122.5°	3.5
125°	4.3
127.5°	6.9
130°	9.6
132.5°	13.9
135°	20.8
137.5°	32.1
140°	52.1
142.5°	79.9
145°	119.9
147.5°	179.8
150°	265.8
151°	307.5
152°	354.4
153°	407.4
154°	463.9
155°	526.4
156°	594.2
157°	666.3
158°	743.6
159°	825.2
160°	910.4
161°	998.1



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CANDELA DISTRIBUTION (continued):

	0°
162°	1086.7
163°	1176.2
164°	1261.3
165°	1343.8
166°	1418.5
167°	1486.3
168°	1547.1
169°	1600.9
170°	1650.4
171°	1694.7
172°	1736.4
173°	1770.3
174°	1791.2
175°	1798.1
176°	1798.1
177°	1792.9
178°	1788.6
179°	1792.0
180°	1798.1

(END OF REPORT)