

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: P221319

Luminaire Tested: **9002-W2-FL-LED3090-M-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221319
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29422)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9002-W2-FL-LED3090-M-BK-L1-UNV
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, FLUSH LENS, MEDIUM FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3000K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1580.6 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.36
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: General Diffuse

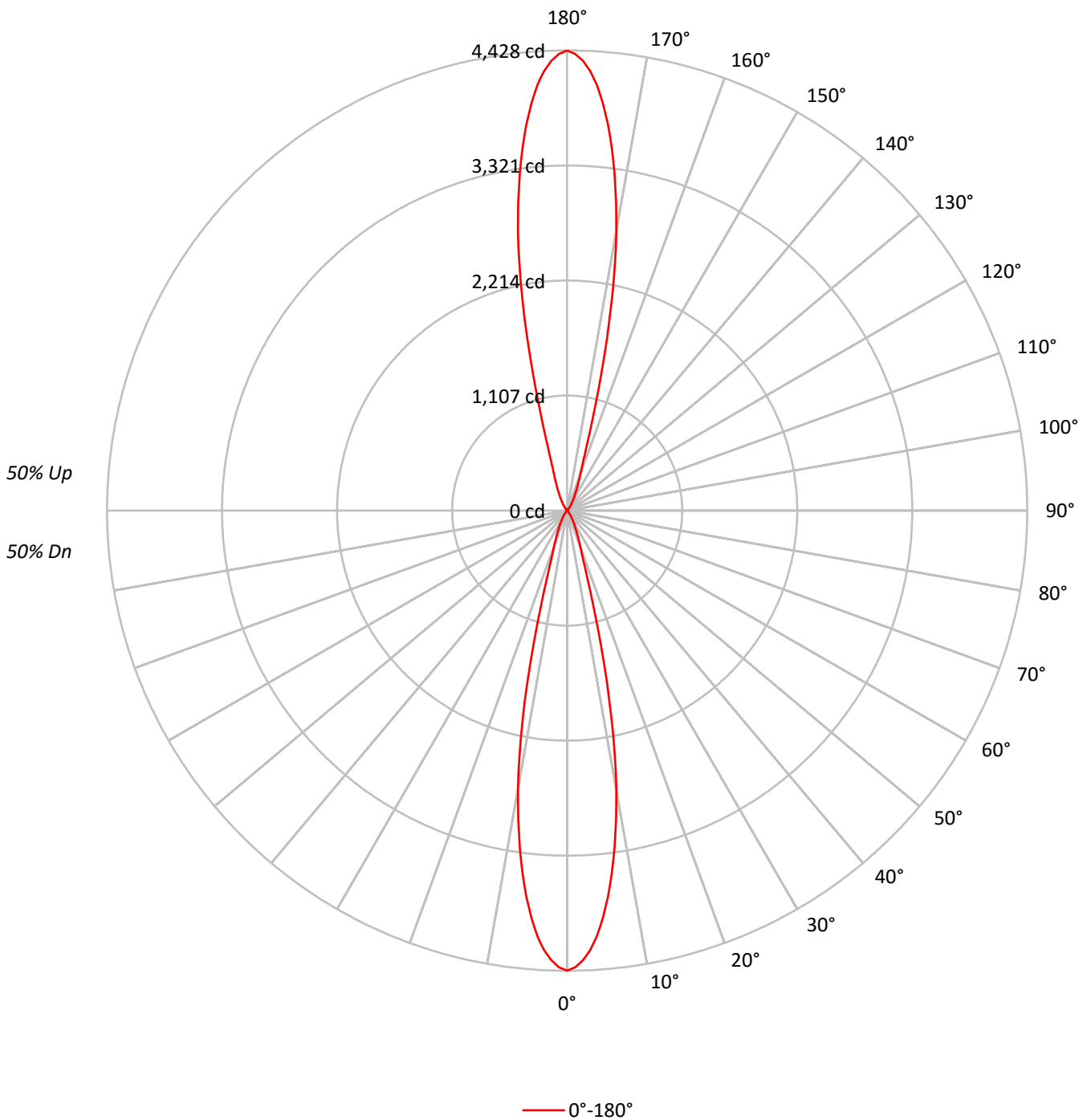
Input Watts (W): 20
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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									50																			
1	101	98	95	93	93	91	89	87	78	76	75	66	65	64	54	54	54	48									48																			
2	95	90	86	82	88	84	81	78	73	70	68	62	61	60	53	52	51	47									47																			
3	90	83	78	74	84	78	74	71	69	66	63	60	58	56	51	50	49	46									46																			
4	85	78	72	68	80	73	69	65	65	62	59	57	55	53	50	49	47	44									44																			
5	81	73	67	63	76	69	64	61	62	58	56	55	52	51	48	47	46	43									43																			
6	77	69	63	59	72	65	60	57	59	55	53	53	50	48	47	46	44	42									42																			
7	74	65	59	56	69	62	57	54	56	53	50	51	48	47	46	44	43	41									41																			
8	71	62	56	53	67	59	54	51	54	50	48	49	47	45	45	43	42	40									40																			
9	68	59	54	50	64	57	52	49	52	48	46	48	45	43	44	42	41	39									39																			
10	65	56	51	48	62	54	50	47	50	47	44	46	44	42	43	41	40	38									38																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2184833
5°	1950747
10°	1363096
15°	533616
20°	192533
25°	107897
30°	60788
35°	31922
40°	11400
45°	6140
50°	3684
55°	2064
60°	1579
65°	934
70°	1154
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.5	21.3
10°-20°	315.1	19.9
20°-30°	94.5	6.0
30°-40°	33.3	2.1
40°-50°	7.5	0.5
50°-60°	2.3	0.1
60°-70°	0.9	0.1
70°-80°	0.1	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.1	0.0
110°-120°	0.9	0.1
120°-130°	2.3	0.1
130°-140°	7.5	0.5
140°-150°	33.3	2.1
150°-160°	94.5	6.0
160°-170°	315.1	19.9
170°-180°	336.5	21.3
0°-30°	746.2	47.2
0°-40°	779.5	49.3
0°-60°	789.3	49.9
0°-90°	790.3	50.0
90°-120°	1.0	0.1
90°-150°	44.1	2.8
90°-180°	790.0	50.0
0°-180°	1580.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4428	
5°	3939	337
15°	1045	315
25°	198	95
35°	53	33
45°	9	7
55°	2	2
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	1	1
125°	2	2
135°	9	7
145°	53	33
155°	198	95
165°	1045	315
175°	3939	337
180°	4428	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4428.3
1°	4395.4
2°	4330.4
3°	4234.9
4°	4105.7
5°	3938.8
6°	3740.7
7°	3520.0
8°	3273.7
9°	3005.7
10°	2720.8
11°	2408.7
12°	2065.3
13°	1704.2
14°	1351.2
15°	1044.7
16°	799.2
17°	621.8
18°	503.1
19°	422.8
20°	366.7
22.5°	268.8
25°	198.2
26°	174.9
27°	154.9
28°	137.2
29°	121.2
30°	106.7
32.5°	77.0
35°	53.0
37.5°	27.3
40°	17.7
42.5°	12.8
45°	8.8
47.5°	6.4
50°	4.8
52.5°	3.2
55°	2.4
57.5°	1.6
60°	1.6
62.5°	0.8
65°	0.8
67.5°	0.8
70°	0.8
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°	0.8
112.5°	0.8
115°	0.8
117.5°	0.8
120°	1.6
122.5°	1.6
125°	2.4
127.5°	3.2
130°	4.8
132.5°	6.4
135°	8.8
137.5°	12.8
140°	17.7
142.5°	27.3
145°	53.0
147.5°	77.0
150°	106.7
151°	121.2
152°	137.2
153°	154.9
154°	174.9
155°	198.2
157.5°	268.8
160°	366.7
161°	422.8
162°	503.1
163°	621.8
164°	799.2
165°	1044.7
166°	1351.2
167°	1704.2



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CANDELA DISTRIBUTION (continued):

	0°
168°	2065.3
169°	2408.7
170°	2720.8
171°	3005.7
172°	3273.7
173°	3520.0
174°	3740.7
175°	3938.8
176°	4105.7
177°	4234.9
178°	4330.4
179°	4395.4
180°	4428.3

(END OF REPORT)