

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: P221236

Luminaire Tested: **9002-W2-[RW, RI]-LED3090-M-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221236
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29410)
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]-LED3090-M-WT-L1-UNV
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, RECESSED LENS, MEDIUM FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 3000K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1580.0 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.37
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: General Diffuse

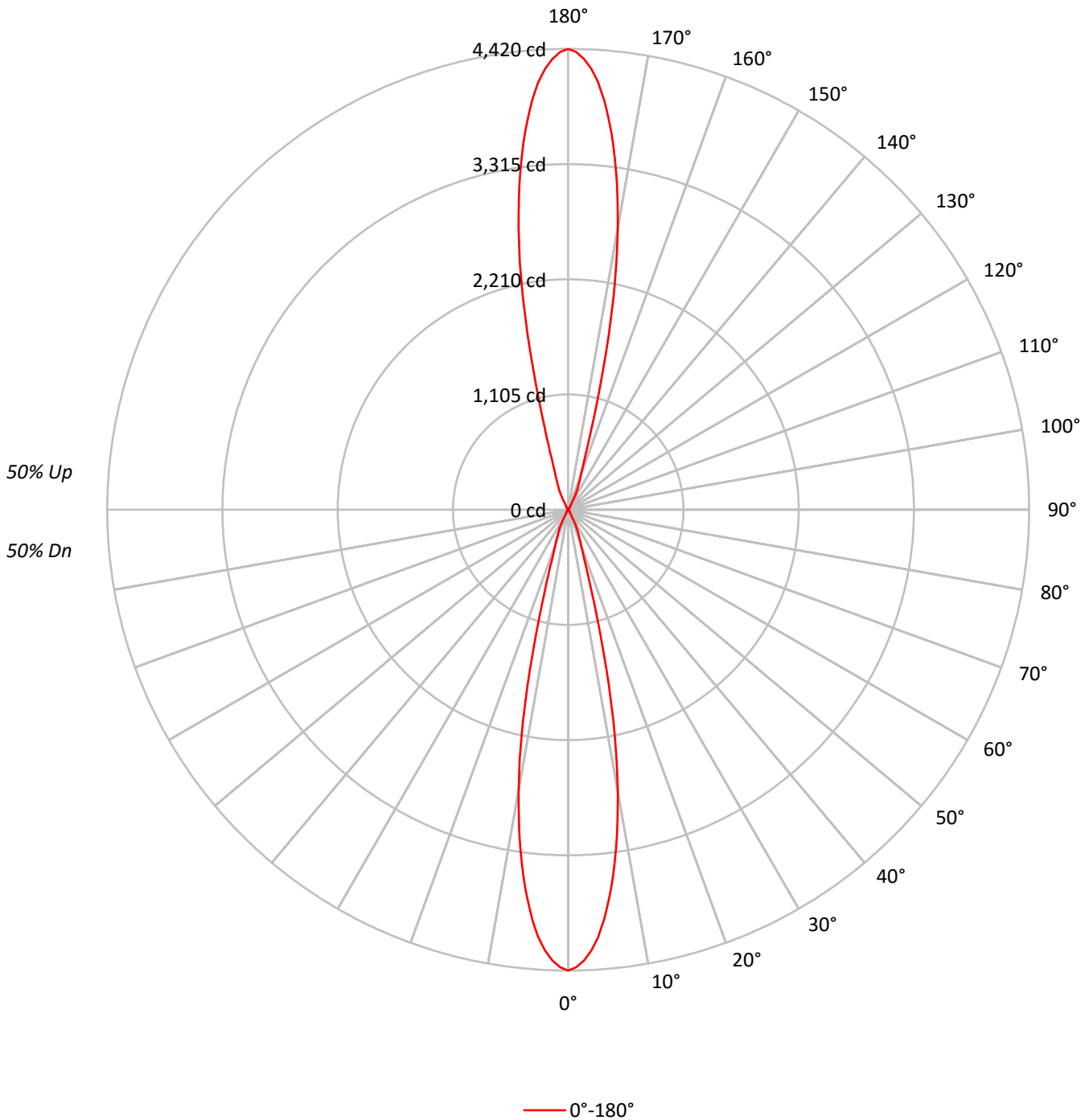
Input Watts (W): 20
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	98	95	92	93	91	88	86	77	76	75		65	64	64		54	54	53	48
2	95	90	85	82	88	84	80	77	72	70	68		62	60	59		52	52	51	47
3	90	83	78	74	83	78	74	70	68	65	63		59	57	56		51	50	49	45
4	85	77	72	68	79	73	68	64	64	61	58		57	54	53		49	48	47	44
5	81	72	67	63	75	69	64	60	61	58	55		54	52	50		48	46	45	43
6	77	68	63	58	72	65	60	56	58	55	52		52	50	48		47	45	44	41
7	73	65	59	55	69	62	57	53	56	52	50		50	48	46		45	44	43	40
8	70	61	56	52	66	59	54	51	54	50	47		49	46	44		44	43	41	39
9	67	59	53	50	64	56	52	48	52	48	46		47	45	43		43	42	40	39
10	65	56	51	47	62	54	49	46	50	46	44		46	43	42		42	41	39	38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2180886
5°	1953966
10°	1372364
15°	547561
20°	188333
25°	104848
30°	25580
35°	14034
40°	10305
45°	9489
50°	9211
55°	9634
60°	9473
65°	9339
70°	9232
75°	9150
80°	9092
85°	9057



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.6	21.4
10°-20°	320.0	20.3
20°-30°	81.1	5.1
30°-40°	15.8	1.0
40°-50°	10.6	0.7
50°-60°	9.9	0.6
60°-70°	7.9	0.5
70°-80°	5.3	0.3
80°-90°	1.7	0.1
90°-100°	1.7	0.1
100°-110°	5.3	0.3
110°-120°	7.9	0.5
120°-130°	9.9	0.6
130°-140°	10.6	0.7
140°-150°	15.8	1.0
150°-160°	81.1	5.1
160°-170°	320.0	20.3
170°-180°	337.6	21.4
0°-30°	738.8	46.8
0°-40°	754.6	47.8
0°-60°	775.1	49.1
0°-90°	790.0	50.0
90°-120°	14.9	0.9
90°-150°	51.3	3.2
90°-180°	790.0	50.0
0°-180°	1580.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4420	
5°	3945	338
15°	1072	320
25°	193	81
35°	23	16
45°	14	11
55°	11	10
65°	8	8
75°	5	5
85°	2	2
90°	0	0
95°	2	2
105°	5	5
115°	8	8
125°	11	10
135°	14	11
145°	23	16
155°	193	81
165°	1072	320
175°	3945	338
180°	4420	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4420.3
1°	4389.8
2°	4326.4
3°	4234.9
4°	4108.9
5°	3945.3
6°	3752.7
7°	3534.4
8°	3290.5
9°	3023.3
10°	2739.3
11°	2431.2
12°	2090.2
13°	1735.5
14°	1383.3
15°	1072.0
16°	821.6
17°	638.7
18°	510.3
19°	421.2
20°	358.7
22.5°	260.8
25°	192.6
26°	154.9
27°	109.1
28°	73.0
29°	54.6
30°	44.9
32.5°	30.5
35°	23.3
37.5°	18.5
40°	16.0
42.5°	14.4
45°	13.6
47.5°	12.8
50°	12.0
52.5°	12.0
55°	11.2
57.5°	10.4
60°	9.6
62.5°	8.8
65°	8.0
67.5°	7.2
70°	6.4
72.5°	5.6



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CANDELA DISTRIBUTION (continued):

	0°
75°	4.8
77.5°	4.8
80°	3.2
82.5°	2.4
85°	1.6
87.5°	0.8
90°	0.0
92.5°	0.8
95°	1.6
97.5°	2.4
100°	3.2
102.5°	4.8
105°	4.8
107.5°	5.6
110°	6.4
112.5°	7.2
115°	8.0
117.5°	8.8
120°	9.6
122.5°	10.4
125°	11.2
127.5°	12.0
130°	12.0
132.5°	12.8
135°	13.6
137.5°	14.4
140°	16.0
142.5°	18.5
145°	23.3
147.5°	30.5
150°	44.9
151°	54.6
152°	73.0
153°	109.1
154°	154.9
155°	192.6
157.5°	260.8
160°	358.7
161°	421.2
162°	510.3
163°	638.7
164°	821.6
165°	1072.0
166°	1383.3
167°	1735.5



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CANDELA DISTRIBUTION (continued):

	0°
168°	2090.2
169°	2431.2
170°	2739.3
171°	3023.3
172°	3290.5
173°	3534.4
174°	3752.7
175°	3945.3
176°	4108.9
177°	4234.9
178°	4326.4
179°	4389.8
180°	4420.3

(END OF REPORT)