

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: P221286

Luminaire Tested: **9002-W2-[RW, RI]-LED5080-S-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221286
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29409)
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]-LED5080-S-WT-L1-UNV
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, RECESSED LENS, SPOT OPTIC, WHITE HOUSING.
Light Source: (1) 5000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1022.9 lumens
Efficiency: N/A
Efficacy: 51.1 lumens/watt
Spacing Criteria (0/90/45): 0.25 / 0.25 / 0.24
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: General Diffuse

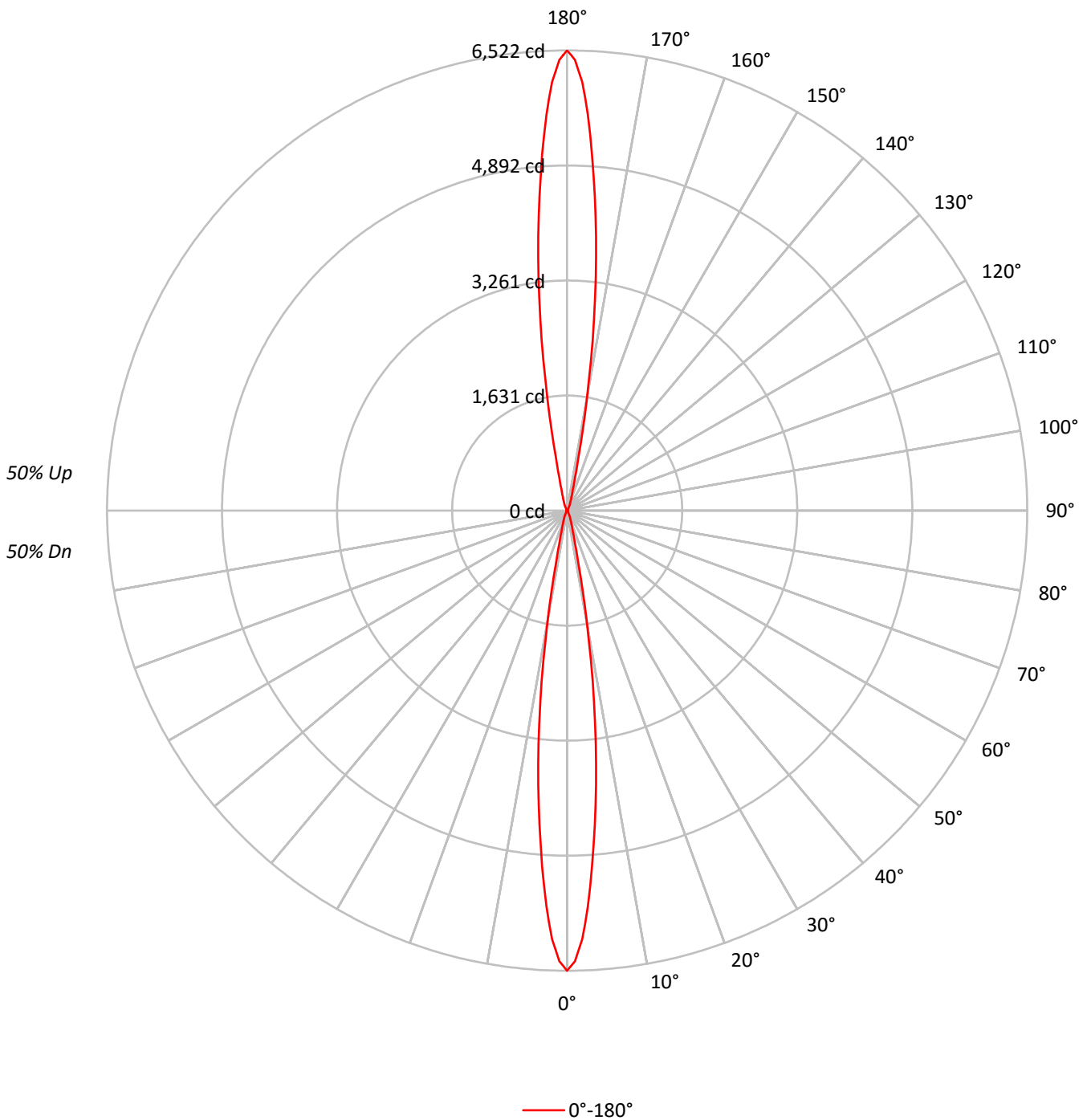
Input Watts (W): 20
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	96	93	94	91	89	87	78	77	75	66	65	64	55	54	54	49
2	96	91	87	83	89	85	81	78	74	71	69	63	62	61	54	53	52	48
3	91	85	80	76	85	79	75	72	70	67	65	61	59	58	52	51	51	47
4	86	79	74	70	81	75	70	67	66	63	61	59	57	55	51	50	49	46
5	83	75	69	65	77	71	66	63	64	60	58	57	55	53	50	49	48	46
6	79	71	66	62	74	68	63	60	61	58	55	55	53	51	49	48	47	45
7	76	68	62	59	72	65	60	57	59	56	53	54	51	50	49	47	46	44
8	73	65	60	56	69	62	58	55	57	54	52	52	50	48	48	46	45	44
9	71	62	57	54	67	60	56	53	55	52	50	51	49	47	47	46	45	43
10	68	60	55	52	65	58	54	51	54	51	49	50	48	46	46	45	44	43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3217821
5°	2221706
10°	800733
15°	163400
20°	77391
25°	38052
30°	13673
35°	7228
40°	4895
45°	4605
50°	4222
55°	3785
60°	3256
65°	2568
70°	3174
75°	2097
80°	3125
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.0	32.7
10°-20°	122.0	11.9
20°-30°	33.5	3.3
30°-40°	8.1	0.8
40°-50°	4.9	0.5
50°-60°	3.9	0.4
60°-70°	2.3	0.2
70°-80°	1.3	0.1
80°-90°	0.4	0.0
90°-100°	0.7	0.1
100°-110°	1.3	0.1
110°-120°	2.3	0.2
120°-130°	3.9	0.4
130°-140°	4.9	0.5
140°-150°	8.1	0.8
150°-160°	33.5	3.3
160°-170°	122.0	11.9
170°-180°	335.0	32.7
0°-30°	490.5	47.9
0°-40°	498.6	48.7
0°-60°	507.4	49.6
0°-90°	511.5	50.0
90°-120°	4.4	0.4
90°-150°	21.3	2.1
90°-180°	512.0	50.1
0°-180°	1022.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6522	
5°	4486	335
15°	320	122
25°	70	33
35°	12	8
45°	7	5
55°	4	4
65°	2	2
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	2	2
125°	4	4
135°	7	5
145°	12	8
155°	70	33
165°	320	122
175°	4486	335
180°	6522	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	6522.0
1°	6387.7
2°	6079.9
3°	5620.2
4°	5063.5
5°	4485.9
6°	3911.7
7°	3333.1
8°	2739.2
9°	2149.6
10°	1598.3
11°	1129.9
12°	785.0
13°	553.5
14°	410.5
15°	319.9
17.5°	204.2
20°	147.4
22.5°	108.1
25°	69.9
27.5°	40.4
30°	24.0
32.5°	15.3
35°	12.0
37.5°	9.8
40°	7.6
42.5°	6.6
45°	6.6
47.5°	5.5
50°	5.5
52.5°	5.5
55°	4.4
57.5°	3.3
60°	3.3
62.5°	2.2
65°	2.2
67.5°	2.2
70°	2.2
72.5°	1.1
75°	1.1
77.5°	1.1
80°	1.1
82.5°	1.1
85°	0.0
87.5°	0.0



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CANDELA DISTRIBUTION (continued):

	0°
90°	0.0
92.5°	0.0
95°	0.0
97.5°	1.1
100°	1.1
102.5°	1.1
105°	1.1
107.5°	1.1
110°	2.2
112.5°	2.2
115°	2.2
117.5°	2.2
120°	3.3
122.5°	3.3
125°	4.4
127.5°	5.5
130°	5.5
132.5°	5.5
135°	6.6
137.5°	6.6
140°	7.6
142.5°	9.8
145°	12.0
147.5°	15.3
150°	24.0
152.5°	40.4
155°	69.9
157.5°	108.1
160°	147.4
162.5°	204.2
165°	319.9
166°	410.5
167°	553.5
168°	785.0
169°	1129.9
170°	1598.3
171°	2149.6
172°	2739.2
173°	3333.1
174°	3911.7
175°	4485.9
176°	5063.5
177°	5620.2
178°	6079.9
179°	6387.7



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CANDELA DISTRIBUTION (continued):

180° | $\frac{0^\circ}{6522.0}$

(END OF REPORT)