

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: P221229

Luminaire Tested: **9002-W2-[RW, RI]-LED2797-S-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221229
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29413)
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]-LED2797-S-BK-L1-UNV
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, RECESSED LENS, SPOT OPTIC, BLACK HOUSING.
Light Source: (1) 2700K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 682.4 lumens
Efficiency: N/A
Efficacy: 34.1 lumens/watt
Spacing Criteria (0/90/45): 0.25 / 0.25 / 0.25
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: General Diffuse

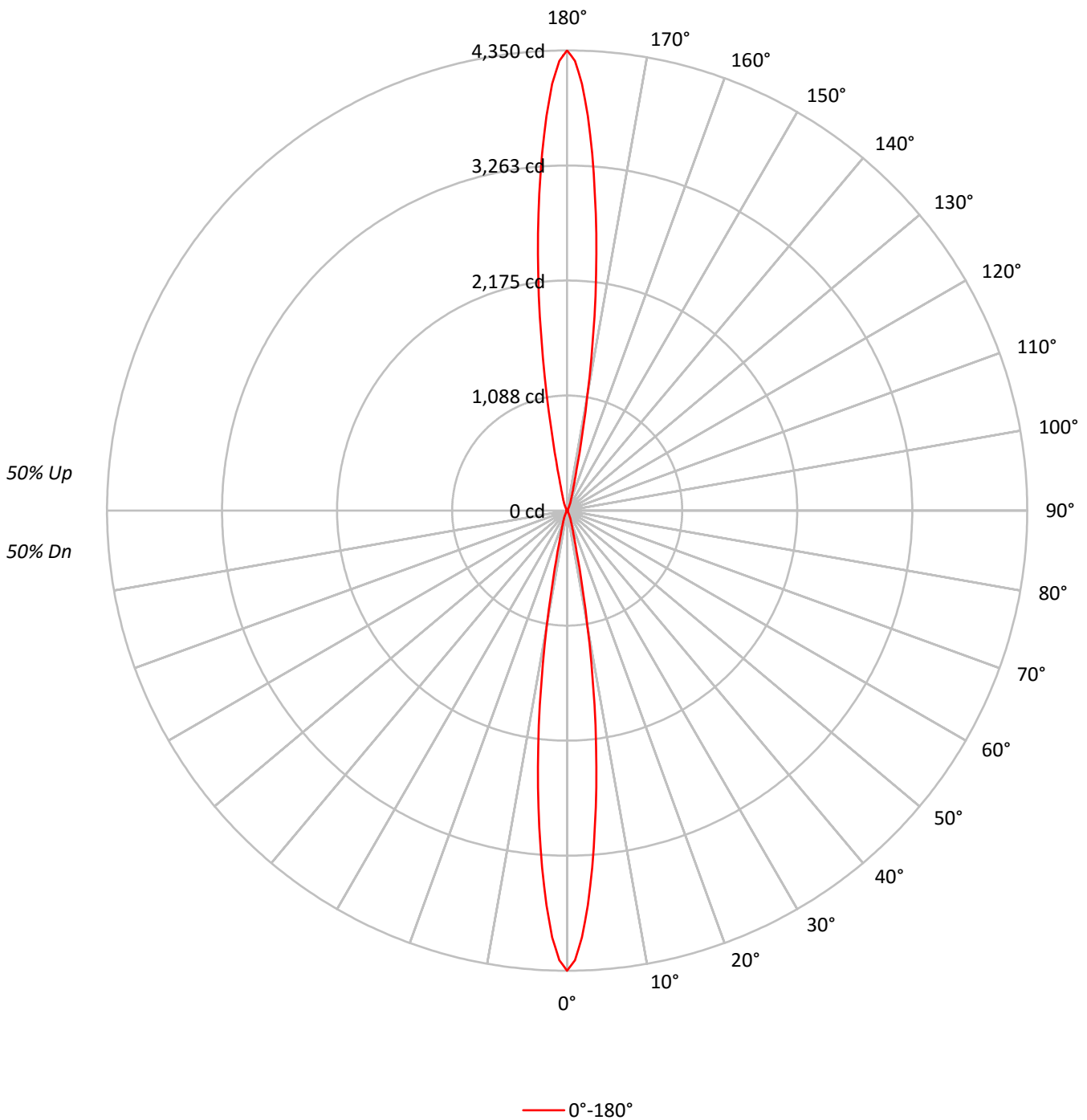
Input Watts (W): 20
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	96	93	94	91	89	87	78	77	76	66	65	65	55	55	54	49
2	96	91	87	84	89	85	82	79	74	72	70	63	62	61	54	53	53	48
3	91	85	80	76	85	80	76	73	70	67	65	61	59	58	53	52	51	48
4	87	80	75	71	81	75	71	68	67	64	62	59	57	56	52	51	50	47
5	83	75	70	66	78	71	67	64	64	61	59	57	55	54	51	50	49	46
6	79	72	66	63	75	68	64	60	62	59	56	56	54	52	50	49	48	46
7	76	68	63	59	72	65	61	58	60	56	54	54	52	50	49	48	47	45
8	74	66	60	57	70	63	58	55	58	55	52	53	51	49	48	47	46	44
9	71	63	58	55	68	61	56	53	56	53	51	52	50	48	48	46	45	44
10	69	61	56	53	66	59	55	52	55	52	49	51	49	47	47	46	45	43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2146250
5°	1490398
10°	553495
15°	118706
20°	53029
25°	25913
30°	8660
35°	3915
40°	2319
45°	1535
50°	1075
55°	0
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.3	33.0
10°-20°	86.6	12.7
20°-30°	22.7	3.3
30°-40°	4.6	0.7
40°-50°	1.6	0.2
50°-60°	0.3	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.5	0.1
130°-140°	1.6	0.2
140°-150°	4.6	0.7
150°-160°	22.7	3.3
160°-170°	86.6	12.7
170°-180°	225.3	33.0
0°-30°	334.7	49.0
0°-40°	339.3	49.7
0°-60°	341.2	50.0
0°-90°	341.2	50.0
90°-120°	0.0	0.0
90°-150°	6.7	1.0
90°-180°	341.0	50.0
0°-180°	682.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4350	
5°	3009	225
15°	232	87
25°	48	23
35°	6	5
45°	2	2
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	0	0
125°	0	0
135°	2	2
145°	6	5
155°	48	23
165°	232	87
175°	3009	225
180°	4350	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4350.1
1°	4250.5
2°	4036.9
3°	3736.0
4°	3385.2
5°	3009.3
6°	2633.3
7°	2246.5
8°	1851.0
9°	1463.5
10°	1104.8
11°	798.1
12°	562.2
13°	399.8
14°	297.3
15°	232.4
17.5°	142.9
20°	101.0
22.5°	73.6
25°	47.6
27.5°	27.4
30°	15.2
32.5°	9.4
35°	6.5
37.5°	5.1
40°	3.6
42.5°	2.2
45°	2.2
47.5°	1.4
50°	1.4
52.5°	0.7
55°	0.0
57.5°	0.0
60°	0.0
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
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°	0.0
100°	0.0
102.5°	0.0
105°	0.0
107.5°	0.0
110°	0.0
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.0
125°	0.0
127.5°	0.7
130°	1.4
132.5°	1.4
135°	2.2
137.5°	2.2
140°	3.6
142.5°	5.1
145°	6.5
147.5°	9.4
150°	15.2
152.5°	27.4
155°	47.6
157.5°	73.6
160°	101.0
162.5°	142.9
165°	232.4
166°	297.3
167°	399.8
168°	562.2
169°	798.1
170°	1104.8
171°	1463.5
172°	1851.0
173°	2246.5
174°	2633.3
175°	3009.3
176°	3385.2
177°	3736.0
178°	4036.9
179°	4250.5



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CANDELA DISTRIBUTION (continued):

180° $\overbrace{\hspace{1.5cm}}^{0^\circ}$
4350.1

(END OF REPORT)