

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: P221228

Luminaire Tested: **9002-W2-[RW, RI]-LED2797-M-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221228
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]-LED2797-M-WT-L1-UNV
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, RECESSED LENS, MEDIUM FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 2700K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1421.2 lumens
Efficiency: N/A
Efficacy: 71.1 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

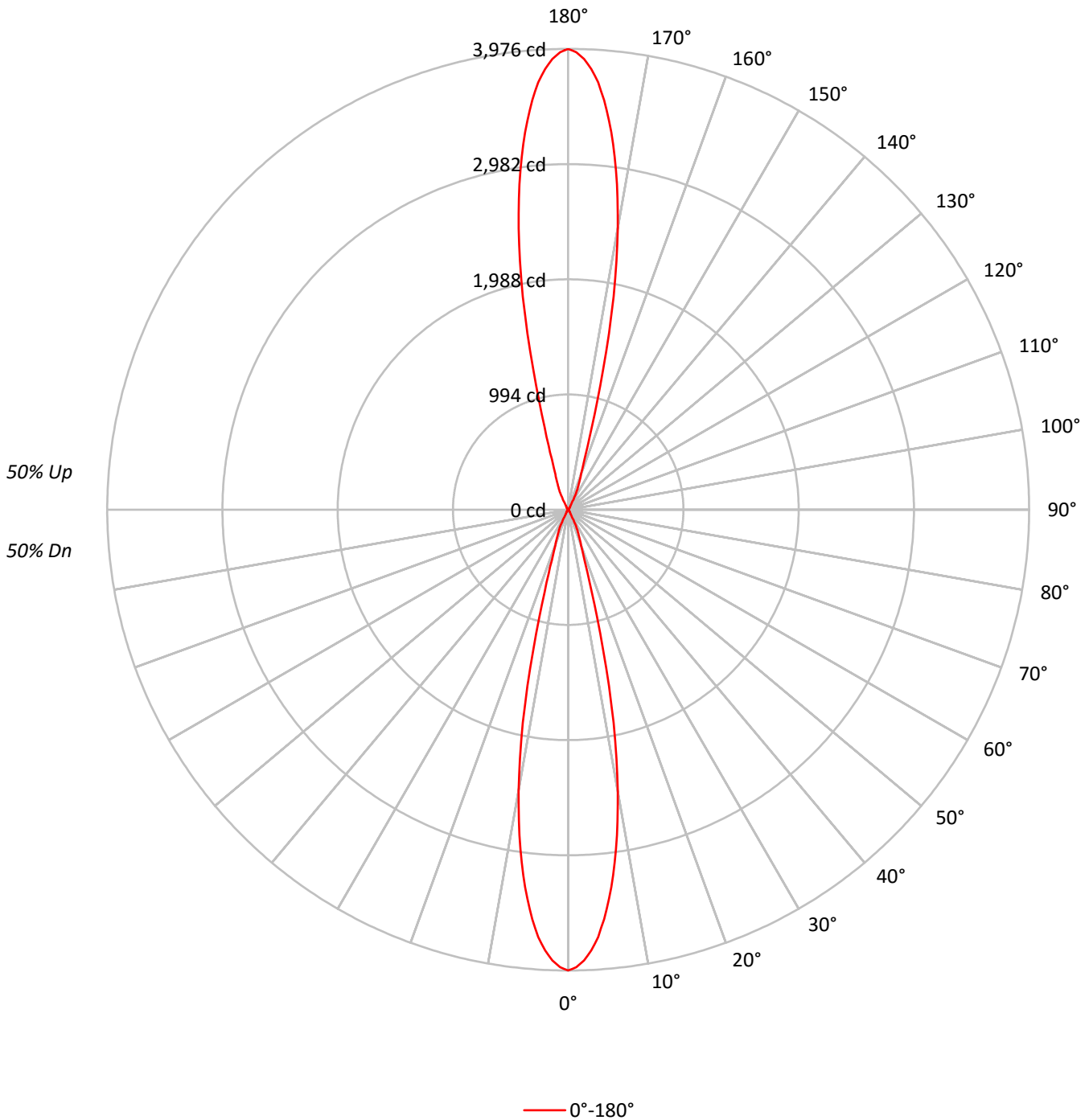
Input Watts (W): 20
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	46
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°	1961430
5°	1757346
10°	1234291
15°	492447
20°	169379
25°	94287
30°	23016
35°	12588
40°	9274
45°	8582
50°	8290
55°	8688
60°	8585
65°	8406
70°	8367
75°	8197
80°	8240
85°	7925



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.7	21.4
10°-20°	287.8	20.3
20°-30°	72.9	5.1
30°-40°	14.2	1.0
40°-50°	9.5	0.7
50°-60°	9.0	0.6
60°-70°	7.1	0.5
70°-80°	4.8	0.3
80°-90°	1.6	0.1
90°-100°	1.6	0.1
100°-110°	4.8	0.3
110°-120°	7.1	0.5
120°-130°	9.0	0.6
130°-140°	9.5	0.7
140°-150°	14.2	1.0
150°-160°	72.9	5.1
160°-170°	287.8	20.3
170°-180°	303.7	21.4
0°-30°	664.4	46.8
0°-40°	678.6	47.8
0°-60°	697.1	49.1
0°-90°	710.6	50.0
90°-120°	13.5	0.9
90°-150°	46.2	3.2
90°-180°	711.0	50.0
0°-180°	1421.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3976	
5°	3548	304
15°	964	288
25°	173	73
35°	21	14
45°	12	10
55°	10	9
65°	7	7
75°	4	5
85°	1	1
90°	0	0
95°	1	1
105°	4	5
115°	7	7
125°	10	9
135°	12	10
145°	21	14
155°	173	73
165°	964	288
175°	3548	304
180°	3976	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3975.5
1°	3948.1
2°	3891.1
3°	3808.8
4°	3695.5
5°	3548.3
6°	3375.1
7°	3178.8
8°	2959.4
9°	2719.1
10°	2463.7
11°	2186.6
12°	1879.9
13°	1560.9
14°	1244.1
15°	964.1
16°	739.0
17°	574.4
18°	459.0
19°	378.9
20°	322.6
22.5°	234.5
25°	173.2
26°	139.3
27°	98.1
28°	65.7
29°	49.1
30°	40.4
32.5°	27.4
35°	20.9
37.5°	16.6
40°	14.4
42.5°	13.0
45°	12.3
47.5°	11.5
50°	10.8
52.5°	10.8
55°	10.1
57.5°	9.4
60°	8.7
62.5°	7.9
65°	7.2
67.5°	6.5
70°	5.8
72.5°	5.1



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CANDELA DISTRIBUTION (continued):

	0°
75°	4.3
77.5°	4.3
80°	2.9
82.5°	2.2
85°	1.4
87.5°	0.7
90°	0.0
92.5°	0.7
95°	1.4
97.5°	2.2
100°	2.9
102.5°	4.3
105°	4.3
107.5°	5.1
110°	5.8
112.5°	6.5
115°	7.2
117.5°	7.9
120°	8.7
122.5°	9.4
125°	10.1
127.5°	10.8
130°	10.8
132.5°	11.5
135°	12.3
137.5°	13.0
140°	14.4
142.5°	16.6
145°	20.9
147.5°	27.4
150°	40.4
151°	49.1
152°	65.7
153°	98.1
154°	139.3
155°	173.2
157.5°	234.5
160°	322.6
161°	378.9
162°	459.0
163°	574.4
164°	739.0
165°	964.1
166°	1244.1
167°	1560.9



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CANDELA DISTRIBUTION (continued):

	0°
168°	1879.9
169°	2186.6
170°	2463.7
171°	2719.1
172°	2959.4
173°	3178.8
174°	3375.1
175°	3548.3
176°	3695.5
177°	3808.8
178°	3891.1
179°	3948.1
180°	3975.5

(END OF REPORT)