

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: P221760

Luminaire Tested: **9004-W2-[RW, RI]-LED2797-S-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221760
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29487)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9004-W2-[RW, RI]-LED2797-S-WT-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, SPOT OPTIC, WHITE HOUSING.
Light Source: (1) 2700K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1544.2 lumens
Efficiency: N/A
Efficacy: 78.4 lumens/watt
Spacing Criteria (0/90/45): 0.27 / 0.27 / 0.27
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

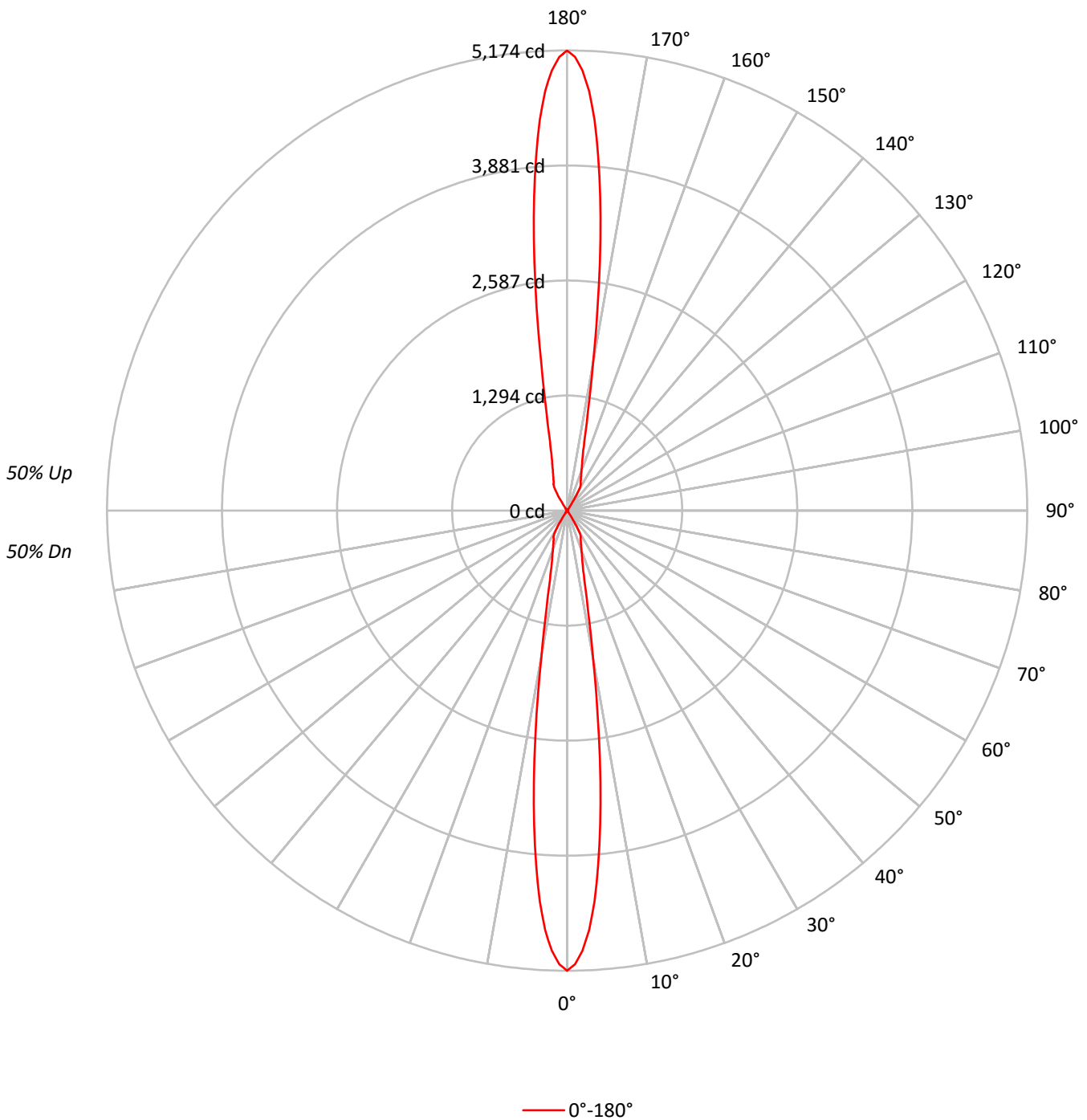
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	97	94	92	93	90	88	86	77	75	74	65	64	63	54	53	53	48
2	94	89	85	81	87	83	79	76	72	69	67	61	60	58	52	51	50	46
3	89	82	77	72	83	77	72	69	67	64	61	58	56	54	50	48	47	44
4	84	76	70	66	78	72	67	63	63	60	57	55	53	51	48	46	45	42
5	79	71	65	61	74	67	62	58	60	56	53	53	50	48	46	45	43	41
6	75	67	61	56	71	63	58	54	57	53	50	50	48	46	45	43	42	39
7	72	63	57	53	67	60	54	51	54	50	47	48	46	44	43	42	40	38
8	68	59	54	50	65	57	52	48	51	48	45	47	44	42	42	40	39	37
9	66	56	51	47	62	54	49	46	49	46	43	45	42	40	41	39	38	36
10	63	54	48	45	59	52	47	43	47	44	41	43	41	39	40	38	36	35

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	638178
5°	495923
10°	210154
15°	89847
20°	61352
25°	48900
30°	36561
35°	4849
40°	2592
45°	1884
50°	2015
55°	2193
60°	2442
65°	2802
70°	3282
75°	3908
80°	4546
85°	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.2	19.6
10°-20°	216.6	14.0
20°-30°	167.1	10.8
30°-40°	46.3	3.0
40°-50°	9.0	0.6
50°-60°	9.1	0.6
60°-70°	9.5	0.6
70°-80°	8.5	0.6
80°-90°	3.6	0.2
90°-100°	3.6	0.2
100°-110°	8.5	0.6
110°-120°	9.5	0.6
120°-130°	9.1	0.6
130°-140°	9.0	0.6
140°-150°	46.3	3.0
150°-160°	167.1	10.8
160°-170°	216.6	14.0
170°-180°	302.2	19.6
0°-30°	686.0	44.4
0°-40°	732.3	47.4
0°-60°	750.4	48.6
0°-90°	772.1	50.0
90°-120°	21.7	1.4
90°-150°	86.1	5.6
90°-180°	772.0	50.0
0°-180°	1544.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5174	
5°	4005	302
15°	704	217
25°	359	167
35°	32	46
45°	11	9
55°	10	9
65°	10	10
75°	8	9
85°	3	3
90°	0	0
95°	3	3
105°	8	9
115°	10	10
125°	10	9
135°	11	9
145°	32	46
155°	359	167
165°	704	217
175°	4005	302
180°	5174	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5173.9
1°	5101.5
2°	4951.2
3°	4722.9
4°	4405.5
5°	4005.3
6°	3553.4
7°	3076.3
8°	2559.8
9°	2091.5
10°	1677.9
11°	1351.9
12°	1104.7
13°	925.8
14°	799.2
15°	703.6
16°	632.6
17°	579.4
18°	537.6
19°	501.0
20°	467.4
22.5°	404.9
25°	359.3
26°	347.6
27°	337.6
28°	325.6
29°	299.6
30°	256.7
32.5°	123.4
35°	32.2
37.5°	20.8
40°	16.1
42.5°	12.0
45°	10.8
47.5°	10.5
50°	10.5
52.5°	10.2
55°	10.2
57.5°	10.2
60°	9.9
62.5°	9.9
65°	9.6
67.5°	9.4
70°	9.1
72.5°	8.8



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CANDELA DISTRIBUTION (continued):

	0°
75°	8.2
77.5°	7.6
80°	6.4
82.5°	5.3
85°	3.2
87.5°	1.5
90°	0.0
92.5°	1.5
95°	3.2
97.5°	5.3
100°	6.4
102.5°	7.6
105°	8.2
107.5°	8.8
110°	9.1
112.5°	9.4
115°	9.6
117.5°	9.9
120°	9.9
122.5°	10.2
125°	10.2
127.5°	10.2
130°	10.5
132.5°	10.5
135°	10.8
137.5°	12.0
140°	16.1
142.5°	20.8
145°	32.2
147.5°	123.4
150°	256.7
151°	299.6
152°	325.6
153°	337.6
154°	347.6
155°	359.3
157.5°	404.9
160°	467.4
161°	501.0
162°	537.6
163°	579.4
164°	632.6
165°	703.6
166°	799.2
167°	925.8



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CANDELA DISTRIBUTION (continued):

	0°
168°	1104.7
169°	1351.9
170°	1677.9
171°	2091.5
172°	2559.8
173°	3076.3
174°	3553.4
175°	4005.3
176°	4405.5
177°	4722.9
178°	4951.2
179°	5101.5
180°	5173.9

(END OF REPORT)