

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: P221751

Luminaire Tested: **9004-W2-[RW, RI]-LED2797-M-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221751
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29492)
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-M-BK-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, MEDIUM FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 2700K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1447.0 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

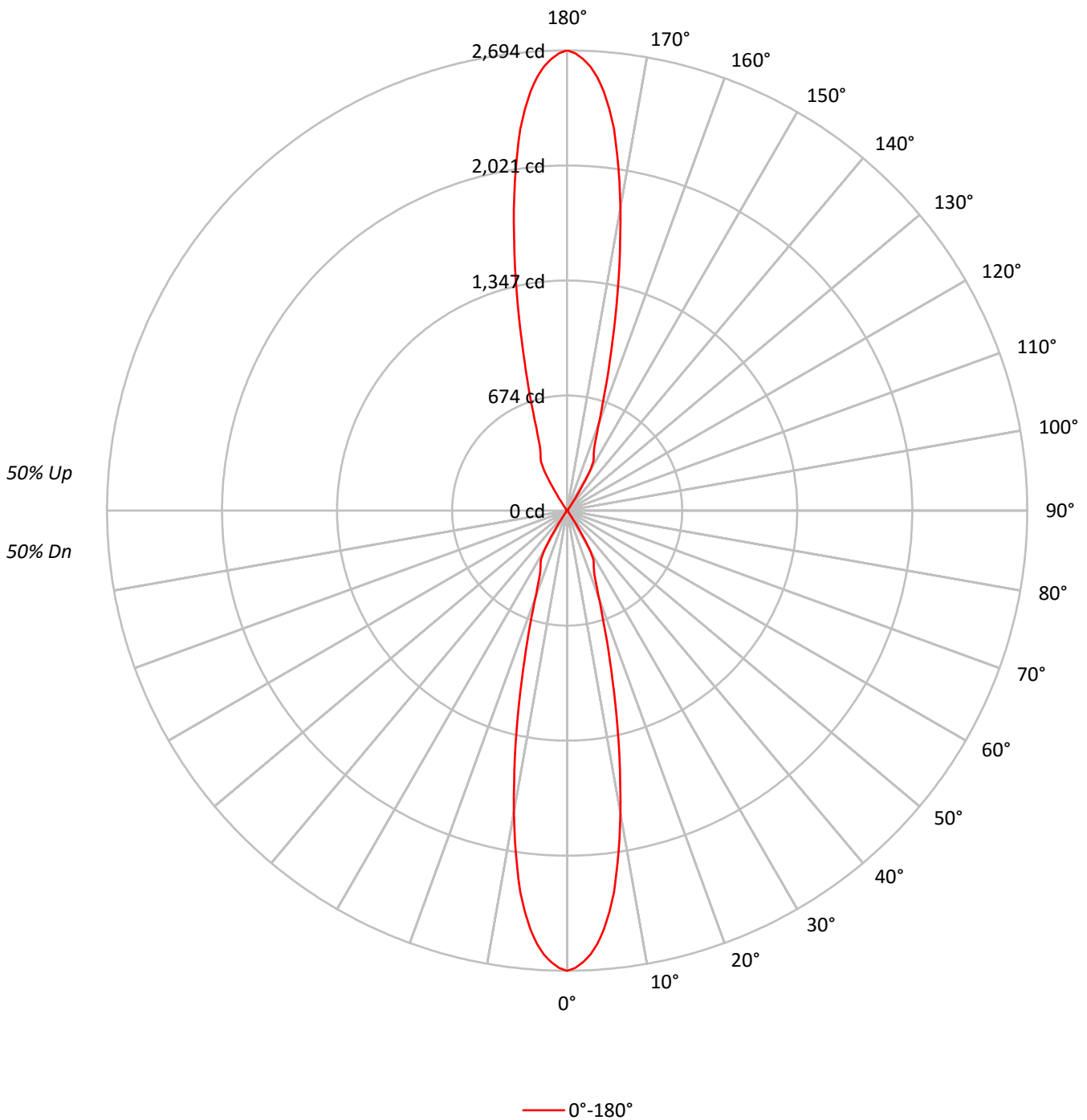
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	98	95	92	93	91	88	86	77	76	74		65	64	63		54	54	53	48
2	95	89	85	81	88	83	80	77	72	70	67		62	60	59		52	51	50	46
3	89	82	77	73	83	77	73	69	68	64	62		59	57	55		50	49	48	44
4	84	76	71	66	79	72	67	63	64	60	57		56	53	51		48	47	46	43
5	80	71	65	61	75	67	62	58	60	56	53		53	51	49		47	45	44	41
6	76	67	61	57	71	63	58	54	57	53	50		51	48	46		45	43	42	40
7	72	63	57	53	68	60	55	51	54	50	47		49	46	44		43	42	40	38
8	68	59	53	50	64	57	51	48	51	48	45		47	44	42		42	40	39	37
9	65	56	51	47	62	54	49	45	49	45	43		45	42	40		41	39	37	36
10	62	53	48	44	59	51	46	43	47	43	41		43	40	38		39	37	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	332355
5°	304924
10°	224984
15°	131323
20°	71209
25°	50329
30°	36476
35°	4532
40°	1546
45°	611
50°	384
55°	323
60°	222
65°	175
70°	108
75°	143
80°	213
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.5	14.8
10°-20°	286.4	19.8
20°-30°	173.7	12.0
30°-40°	44.5	3.1
40°-50°	3.2	0.2
50°-60°	1.3	0.1
60°-70°	0.6	0.0
70°-80°	0.3	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.3	0.0
110°-120°	0.6	0.0
120°-130°	1.3	0.1
130°-140°	3.2	0.2
140°-150°	44.5	3.1
150°-160°	173.7	12.0
160°-170°	286.4	19.8
170°-180°	213.5	14.8
0°-30°	673.6	46.6
0°-40°	718.1	49.6
0°-60°	722.5	49.9
0°-90°	723.5	50.0
90°-120°	0.9	0.1
90°-150°	49.9	3.4
90°-180°	723.0	50.0
0°-180°	1447.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2694	
5°	2463	214
15°	1028	286
25°	370	174
35°	30	44
45°	4	3
55°	2	1
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	1	1
125°	2	1
135°	4	3
145°	30	44
155°	370	174
165°	1028	286
175°	2463	214
180°	2694	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2694.5
1°	2677.3
2°	2646.6
3°	2602.8
4°	2542.8
5°	2462.7
6°	2362.8
7°	2250.2
8°	2106.4
9°	1952.9
10°	1796.3
11°	1631.4
12°	1469.5
13°	1314.5
14°	1165.7
15°	1028.4
16°	905.6
17°	794.8
18°	696.0
19°	612.7
20°	542.5
21°	487.3
22°	443.4
23°	411.0
24°	387.9
25°	369.8
26°	355.2
27°	342.6
28°	327.7
29°	300.5
30°	256.1
32.5°	121.9
35°	30.1
37.5°	16.4
40°	9.6
42.5°	4.4
45°	3.5
47.5°	2.9
50°	2.0
52.5°	1.8
55°	1.5
57.5°	1.2
60°	0.9
62.5°	0.9
65°	0.6



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.3
70°	0.3
72.5°	0.3
75°	0.3
77.5°	0.3
80°	0.3
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.3
102.5°	0.3
105°	0.3
107.5°	0.3
110°	0.3
112.5°	0.3
115°	0.6
117.5°	0.9
120°	0.9
122.5°	1.2
125°	1.5
127.5°	1.8
130°	2.0
132.5°	2.9
135°	3.5
137.5°	4.4
140°	9.6
142.5°	16.4
145°	30.1
147.5°	121.9
150°	256.1
151°	300.5
152°	327.7
153°	342.6
154°	355.2
155°	369.8
156°	387.9
157°	411.0
158°	443.4
159°	487.3
160°	542.5
161°	612.7



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CANDELA DISTRIBUTION (continued):

	0°
162°	696.0
163°	794.8
164°	905.6
165°	1028.4
166°	1165.7
167°	1314.5
168°	1469.5
169°	1631.4
170°	1796.3
171°	1952.9
172°	2106.4
173°	2250.2
174°	2362.8
175°	2462.7
176°	2542.8
177°	2602.8
178°	2646.6
179°	2677.3
180°	2694.5

(END OF REPORT)