

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: P221757

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221757
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29491)
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-BK-L1-UNV
Description: LUMIERE LANTERRA 9004 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: 1451.2 lumens
Efficiency: N/A
Efficacy: 73.7 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

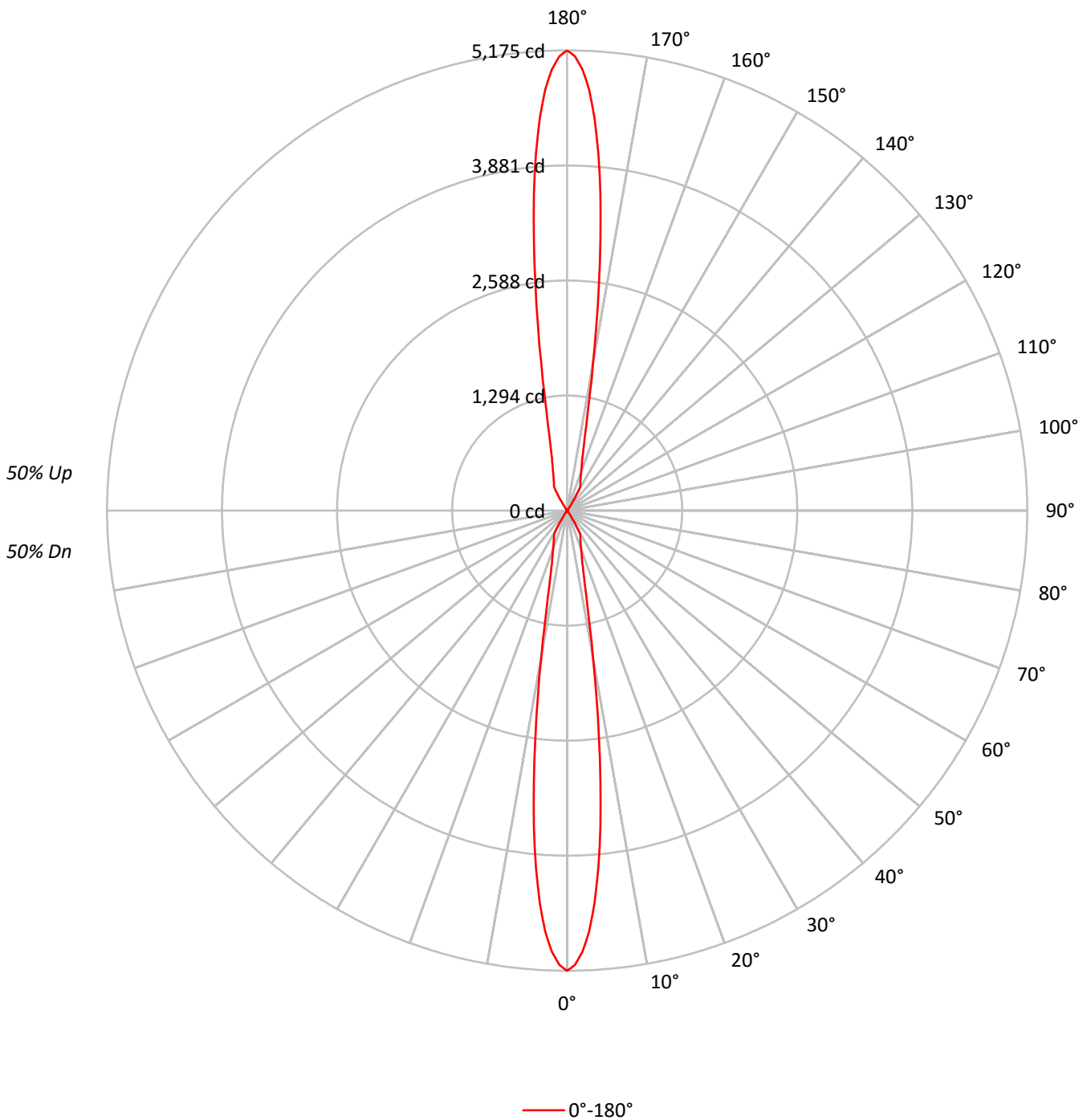
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	93	91	88	86	78	76	75	65	65	64	54	54	53	48
2	95	90	86	82	88	84	80	77	73	70	68	62	61	59	53	52	51	47
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	62	75	68	63	60	61	57	55	54	52	50	48	46	45	42
6	77	68	62	58	72	65	60	56	58	54	52	52	49	48	46	45	43	41
7	73	64	58	54	69	61	56	53	55	52	49	50	47	45	45	43	42	40
8	70	61	55	51	66	58	53	50	53	49	47	48	46	44	44	42	41	39
9	67	58	52	49	63	56	51	47	51	47	45	47	44	42	42	41	39	38
10	64	55	50	47	61	53	48	45	49	45	43	45	42	41	41	40	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	638363
5°	498746
10°	210079
15°	89030
20°	60275
25°	47865
30°	35436
35°	3207
40°	1175
45°	349
50°	288
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°	303.2	20.9
10°-20°	214.3	14.8
20°-30°	163.6	11.3
30°-40°	40.1	2.8
40°-50°	2.2	0.1
50°-60°	1.2	0.1
60°-70°	0.6	0.0
70°-80°	0.3	0.0
80°-90°	0.1	0.0
90°-100°	0.2	0.0
100°-110°	0.3	0.0
110°-120°	0.6	0.0
120°-130°	1.2	0.1
130°-140°	2.2	0.1
140°-150°	40.1	2.8
150°-160°	163.6	11.3
160°-170°	214.3	14.8
170°-180°	303.2	20.9
0°-30°	681.1	46.9
0°-40°	721.2	49.7
0°-60°	724.5	49.9
0°-90°	725.6	50.0
90°-120°	1.1	0.1
90°-150°	44.6	3.1
90°-180°	726.0	50.0
0°-180°	1451.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5175	
5°	4028	303
15°	697	214
25°	352	164
35°	21	40
45°	2	2
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°	2	2
145°	21	40
155°	352	164
165°	697	214
175°	4028	303
180°	5175	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5175.4
1°	5109.0
2°	4962.9
3°	4738.7
4°	4424.7
5°	4028.1
6°	3572.1
7°	3071.0
8°	2566.5
9°	2104.7
10°	1677.3
11°	1338.8
12°	1090.9
13°	915.5
14°	790.7
15°	697.2
16°	625.3
17°	572.9
18°	531.4
19°	492.5
20°	459.2
22.5°	396.1
25°	351.7
26°	339.7
27°	329.7
28°	319.8
29°	293.5
30°	248.8
32.5°	112.0
35°	21.3
37.5°	11.7
40°	7.3
42.5°	3.2
45°	2.0
47.5°	1.8
50°	1.5
52.5°	1.5
55°	1.5
57.5°	1.2
60°	0.9
62.5°	0.9
65°	0.6
67.5°	0.3
70°	0.3
72.5°	0.3



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CANDELA DISTRIBUTION (continued):

	0°
75°	0.3
77.5°	0.3
80°	0.3
82.5°	0.3
85°	0.0
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.3
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°	1.5
130°	1.5
132.5°	1.8
135°	2.0
137.5°	3.2
140°	7.3
142.5°	11.7
145°	21.3
147.5°	112.0
150°	248.8
151°	293.5
152°	319.8
153°	329.7
154°	339.7
155°	351.7
157.5°	396.1
160°	459.2
161°	492.5
162°	531.4
163°	572.9
164°	625.3
165°	697.2
166°	790.7
167°	915.5



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CANDELA DISTRIBUTION (continued):

	0°
168°	1090.9
169°	1338.8
170°	1677.3
171°	2104.7
172°	2566.5
173°	3071.0
174°	3572.1
175°	4028.1
176°	4424.7
177°	4738.7
178°	4962.9
179°	5109.0
180°	5175.4

(END OF REPORT)