

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: P221999

Luminaire Tested: **9004-W2-FL-LED2797-S-BK-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221999
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29496)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9004-W2-FL-LED2797-S-BK-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH 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: 3917.6 lumens
Efficiency: N/A
Efficacy: 68.5 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

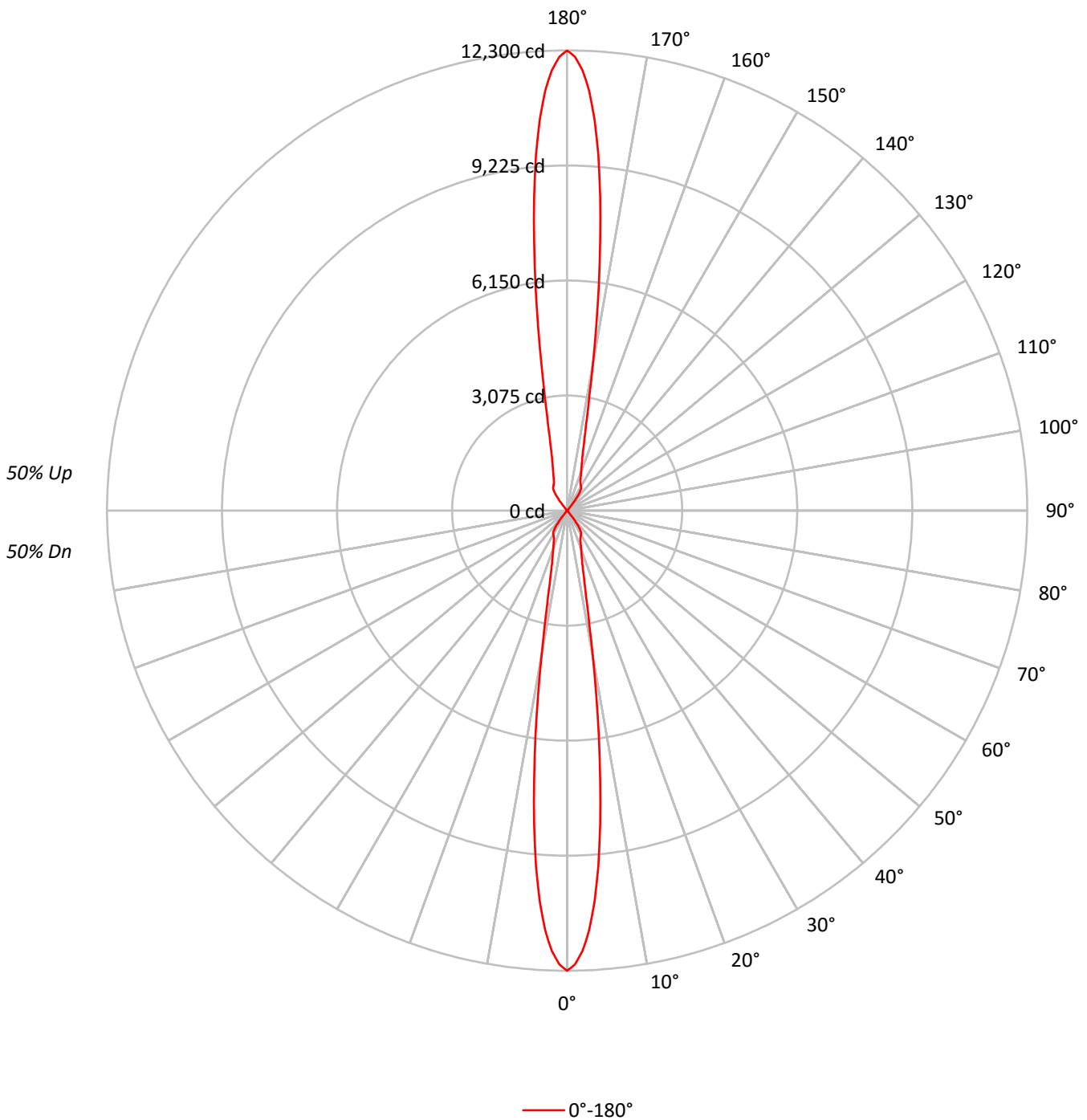
Input Watts (W): 57.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	97	95	92	93	90	88	86	77	76	74		65	64	63		54	54	53	48
2	95	89	85	81	88	83	80	76	72	69	67		62	60	58		52	51	50	46
3	89	82	77	73	83	77	72	69	67	64	62		58	56	54		50	49	48	44
4	84	76	70	66	78	72	67	63	63	60	57		55	53	51		48	46	45	42
5	79	71	65	60	74	67	62	58	59	56	53		53	50	48		46	44	43	40
6	75	66	60	56	70	63	58	54	56	52	49		50	47	45		44	43	41	39
7	71	62	56	52	67	59	54	50	53	49	47		48	45	43		43	41	40	37
8	68	59	53	49	64	56	51	47	51	47	44		46	43	41		41	39	38	36
9	65	56	50	46	61	53	48	45	48	45	42		44	41	39		40	38	37	35
10	62	53	47	44	59	51	46	42	46	43	40		42	40	38		39	37	35	34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1517114
5°	1180927
10°	491851
15°	207954
20°	142721
25°	113913
30°	105268
35°	86130
40°	18130
45°	4152
50°	1478
55°	1204
60°	691
65°	409
70°	252
75°	334
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	716.8	18.3
10°-20°	502.3	12.8
20°-30°	395.9	10.1
30°-40°	311.7	8.0
40°-50°	25.2	0.6
50°-60°	4.9	0.1
60°-70°	1.3	0.0
70°-80°	0.6	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.6	0.0
110°-120°	1.3	0.0
120°-130°	4.9	0.1
130°-140°	25.2	0.6
140°-150°	311.7	8.0
150°-160°	395.9	10.1
160°-170°	502.3	12.8
170°-180°	716.8	18.3
0°-30°	1615.0	41.2
0°-40°	1926.8	49.2
0°-60°	1956.9	50.0
0°-90°	1958.8	50.0
90°-120°	1.9	0.0
90°-150°	343.7	8.8
90°-180°	1959.0	50.0
0°-180°	3917.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	12300	
5°	9538	717
15°	1628	502
25°	837	396
35°	572	312
45°	24	25
55°	6	5
65°	1	1
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	1	1
125°	6	5
135°	24	25
145°	572	312
155°	837	396
165°	1628	502
175°	9538	717
180°	12300	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	12299.7
1°	12130.5
2°	11778.8
3°	11233.4
4°	10487.3
5°	9537.7
6°	8441.3
7°	7256.8
8°	6094.6
9°	4924.8
10°	3927.0
11°	3130.5
12°	2552.9
13°	2143.9
14°	1847.4
15°	1628.5
16°	1464.2
17°	1344.0
18°	1252.4
19°	1164.9
20°	1087.3
21°	1023.0
22°	965.7
23°	915.3
24°	871.3
25°	837.0
26°	811.1
27°	791.5
28°	772.7
29°	755.9
30°	739.1
32.5°	697.1
35°	572.0
37.5°	341.2
40°	112.6
42.5°	33.6
45°	23.8
47.5°	16.8
50°	7.7
52.5°	7.0
55°	5.6
57.5°	4.2
60°	2.8
62.5°	1.4
65°	1.4



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.7
70°	0.7
72.5°	0.7
75°	0.7
77.5°	0.7
80°	0.0
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°	0.0
102.5°	0.7
105°	0.7
107.5°	0.7
110°	0.7
112.5°	0.7
115°	1.4
117.5°	1.4
120°	2.8
122.5°	4.2
125°	5.6
127.5°	7.0
130°	7.7
132.5°	16.8
135°	23.8
137.5°	33.6
140°	112.6
142.5°	341.2
145°	572.0
147.5°	697.1
150°	739.1
151°	755.9
152°	772.7
153°	791.5
154°	811.1
155°	837.0
156°	871.3
157°	915.3
158°	965.7
159°	1023.0
160°	1087.3
161°	1164.9



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CANDELA DISTRIBUTION (continued):

	0°
162°	1252.4
163°	1344.0
164°	1464.2
165°	1628.5
166°	1847.4
167°	2143.9
168°	2552.9
169°	3130.5
170°	3927.0
171°	4924.8
172°	6094.6
173°	7256.8
174°	8441.3
175°	9537.7
176°	10487.3
177°	11233.4
178°	11778.8
179°	12130.5
180°	12299.7

(END OF REPORT)