

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: P221978

Luminaire Tested: **9004-W2-FL-LED2790-S-WT-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221978
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-LED2790-S-WT-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, SPOT OPTIC, WHITE HOUSING.
Light Source: (1) 2700K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4226.8 lumens
Efficiency: N/A
Efficacy: 73.9 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

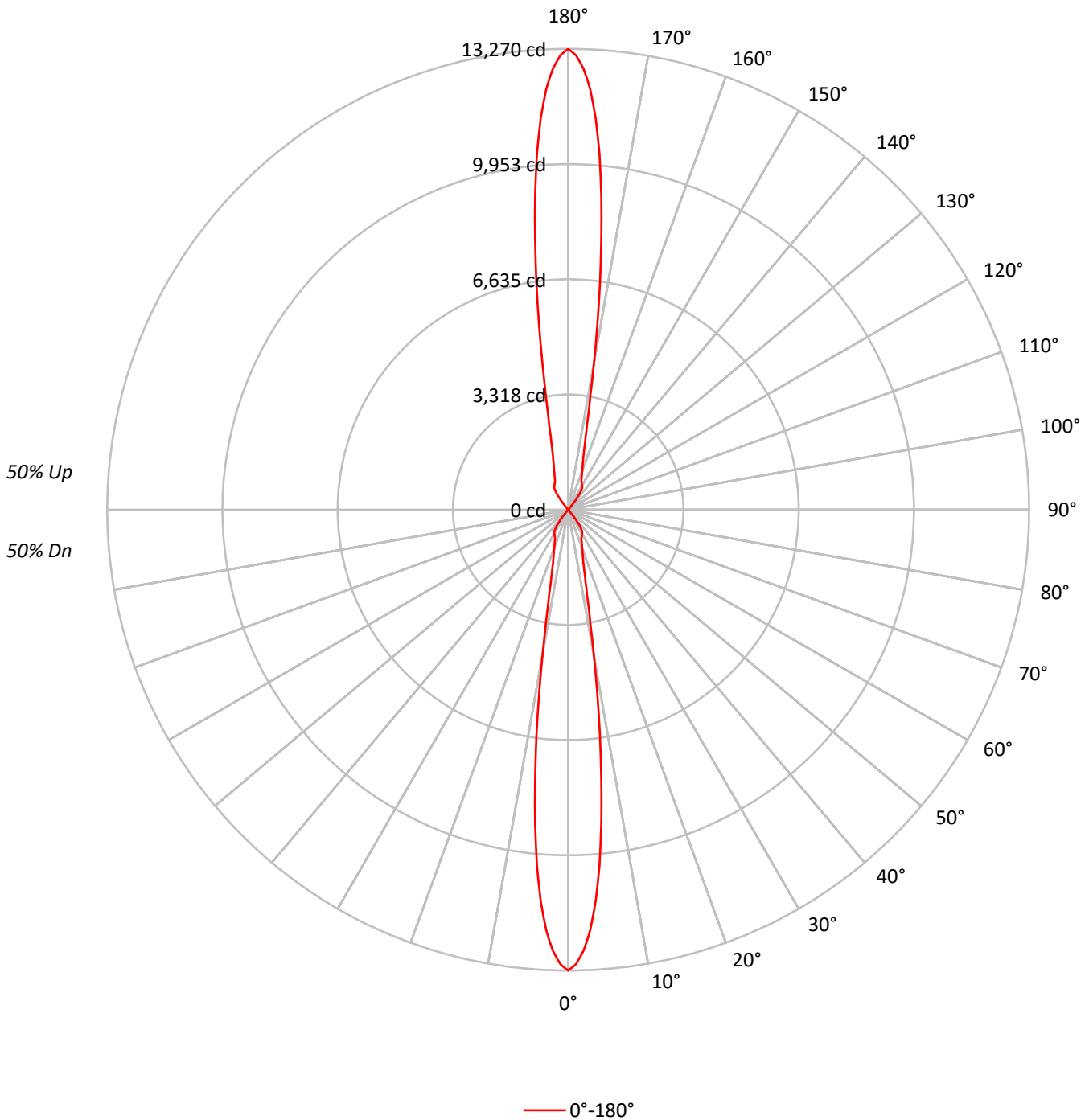
Input Watts (W): 57.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1636858
5°	1274137
10°	530665
15°	224376
20°	153983
25°	122909
30°	113571
35°	92921
40°	19563
45°	4483
50°	1593
55°	1290
60°	740
65°	438
70°	289
75°	381
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	773.4	18.3
10°-20°	542.0	12.8
20°-30°	427.2	10.1
30°-40°	336.3	8.0
40°-50°	27.2	0.6
50°-60°	5.3	0.1
60°-70°	1.4	0.0
70°-80°	0.7	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.7	0.0
110°-120°	1.4	0.0
120°-130°	5.3	0.1
130°-140°	27.2	0.6
140°-150°	336.3	8.0
150°-160°	427.2	10.1
160°-170°	542.0	12.8
170°-180°	773.4	18.3
0°-30°	1742.5	41.2
0°-40°	2078.8	49.2
0°-60°	2111.3	49.9
0°-90°	2113.4	50.0
90°-120°	2.1	0.1
90°-150°	370.9	8.8
90°-180°	2113.0	50.0
0°-180°	4226.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	13270	
5°	10290	773
15°	1757	542
25°	903	427
35°	617	336
45°	26	27
55°	6	5
65°	2	1
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	2	1
125°	6	5
135°	26	27
145°	617	336
155°	903	427
165°	1757	542
175°	10290	773
180°	13270	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	13270.5
1°	13088.0
2°	12708.5
3°	12120.0
4°	11315.0
5°	10290.5
6°	9107.6
7°	7829.5
8°	6575.7
9°	5313.5
10°	4236.9
11°	3377.6
12°	2754.4
13°	2313.1
14°	1993.2
15°	1757.1
16°	1579.8
17°	1450.0
18°	1351.2
19°	1256.9
20°	1173.1
21°	1103.7
22°	1041.9
23°	987.6
24°	940.0
25°	903.1
26°	875.1
27°	854.0
28°	833.7
29°	815.5
30°	797.4
32.5°	752.2
35°	617.1
37.5°	368.2
40°	121.5
42.5°	36.2
45°	25.7
47.5°	18.1
50°	8.3
52.5°	7.5
55°	6.0
57.5°	4.5
60°	3.0
62.5°	1.5
65°	1.5

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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.8
70°	0.8
72.5°	0.8
75°	0.8
77.5°	0.8
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°	0.8
105°	0.8
107.5°	0.8
110°	0.8
112.5°	0.8
115°	1.5
117.5°	1.5
120°	3.0
122.5°	4.5
125°	6.0
127.5°	7.5
130°	8.3
132.5°	18.1
135°	25.7
137.5°	36.2
140°	121.5
142.5°	368.2
145°	617.1
147.5°	752.2
150°	797.4
151°	815.5
152°	833.7
153°	854.0
154°	875.1
155°	903.1
156°	940.0
157°	987.6
158°	1041.9
159°	1103.7
160°	1173.1
161°	1256.9



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CANDELA DISTRIBUTION (continued):

	0°
162°	1351.2
163°	1450.0
164°	1579.8
165°	1757.1
166°	1993.2
167°	2313.1
168°	2754.4
169°	3377.6
170°	4236.9
171°	5313.5
172°	6575.7
173°	7829.5
174°	9107.6
175°	10290.5
176°	11315.0
177°	12120.0
178°	12708.5
179°	13088.0
180°	13270.5

(END OF REPORT)