

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: P221966

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221966
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29495)
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-F-WT-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 2700K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4187.2 lumens
Efficiency: N/A
Efficacy: 74.0 lumens/watt
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.56
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

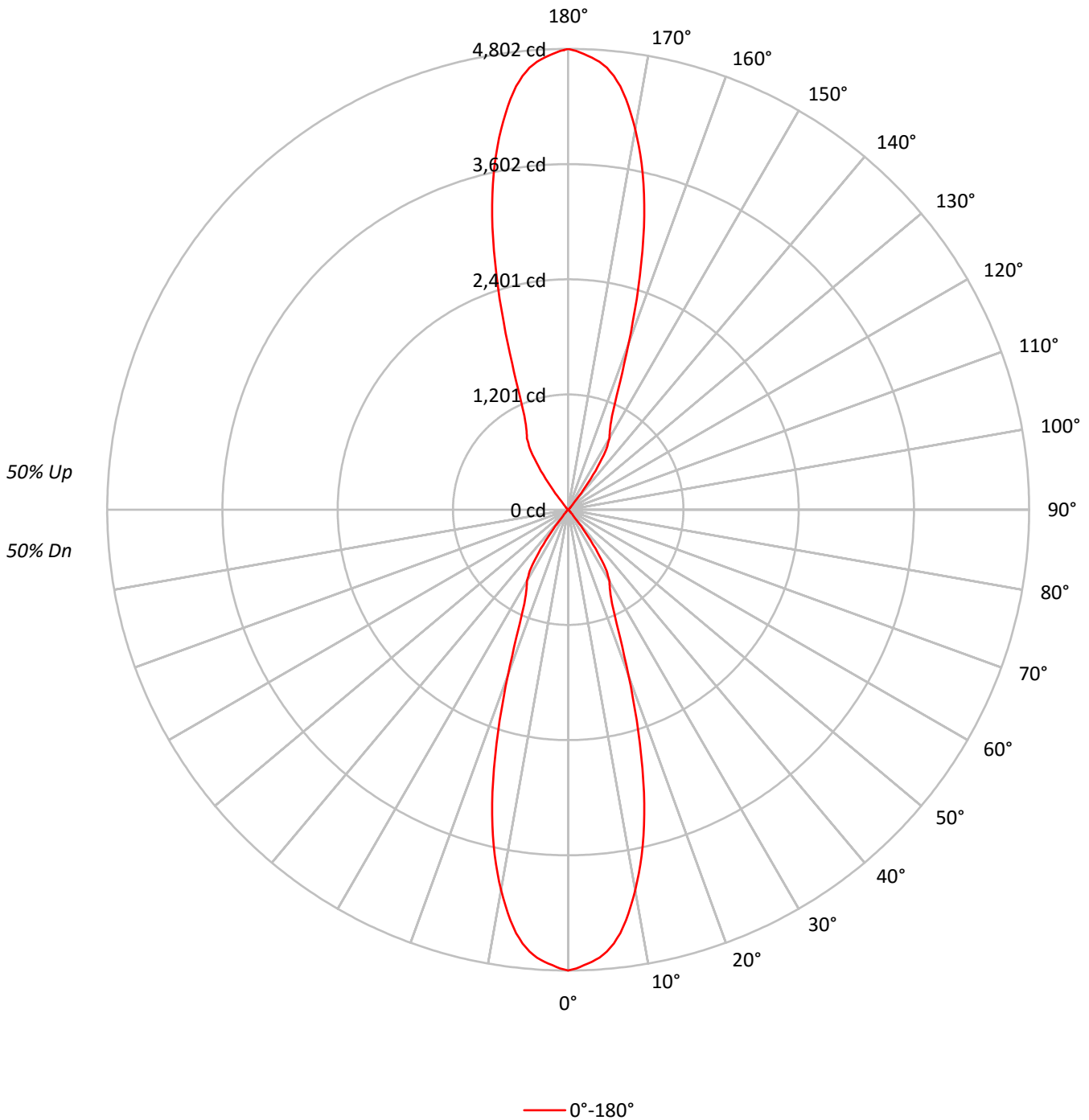
Input Watts (W): 56.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	84	80	87	83	79	76	71	69	67	61	59	58	51	50	50	45
3	88	81	76	72	82	76	72	68	67	63	61	58	55	53	49	48	47	43
4	83	75	69	65	77	71	66	62	62	58	56	54	52	50	47	45	44	41
5	78	70	63	59	73	66	60	56	58	54	51	51	49	46	45	43	42	39
6	74	65	59	54	69	61	56	52	55	51	48	49	46	44	43	41	40	37
7	70	61	54	50	66	57	52	48	52	48	45	46	43	41	41	39	38	35
8	66	57	51	47	62	54	49	45	49	45	42	44	41	39	39	37	36	34
9	63	53	47	44	59	51	46	42	46	42	39	42	39	37	38	36	34	32
10	60	50	45	41	57	48	43	40	44	40	37	40	37	35	36	34	33	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	592306
5°	572331
10°	504300
15°	389399
20°	241732
25°	147447
30°	122288
35°	74641
40°	12640
45°	4605
50°	1017
55°	495
60°	370
65°	438
70°	289
75°	381
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.3	10.1
10°-20°	816.6	19.5
20°-30°	531.8	12.7
30°-40°	295.3	7.1
40°-50°	23.1	0.6
50°-60°	2.4	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°	2.4	0.1
130°-140°	23.1	0.6
140°-150°	295.3	7.1
150°-160°	531.8	12.7
160°-170°	816.6	19.5
170°-180°	422.3	10.1
0°-30°	1770.6	42.3
0°-40°	2065.9	49.3
0°-60°	2091.4	49.9
0°-90°	2093.6	50.0
90°-120°	2.1	0.1
90°-150°	323.0	7.7
90°-180°	2094.0	50.0
0°-180°	4187.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4802	
5°	4622	422
15°	3049	817
25°	1083	532
35°	496	295
45°	26	23
55°	2	2
65°	2	1
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	2	1
125°	2	2
135°	26	23
145°	496	295
155°	1083	532
165°	3049	817
175°	4622	422
180°	4802	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4802.0
1°	4780.9
2°	4749.9
3°	4717.5
4°	4679.0
5°	4622.4
6°	4546.3
7°	4445.9
8°	4321.4
9°	4178.8
10°	4026.4
11°	3860.5
12°	3680.2
13°	3487.0
14°	3274.3
15°	3049.4
16°	2805.0
17°	2550.0
18°	2308.6
19°	2065.7
20°	1841.6
21°	1630.3
22°	1447.0
23°	1293.9
24°	1174.7
25°	1083.4
26°	1017.0
27°	964.2
28°	922.7
29°	889.5
30°	858.6
32.5°	728.0
35°	495.7
37.5°	254.2
40°	78.5
42.5°	37.7
45°	26.4
47.5°	16.6
50°	5.3
52.5°	3.0
55°	2.3
57.5°	2.3
60°	1.5
62.5°	1.5
65°	1.5



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	1.5
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°	1.5
115°	1.5
117.5°	1.5
120°	1.5
122.5°	2.3
125°	2.3
127.5°	3.0
130°	5.3
132.5°	16.6
135°	26.4
137.5°	37.7
140°	78.5
142.5°	254.2
145°	495.7
147.5°	728.0
150°	858.6
151°	889.5
152°	922.7
153°	964.2
154°	1017.0
155°	1083.4
156°	1174.7
157°	1293.9
158°	1447.0
159°	1630.3
160°	1841.6
161°	2065.7



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CANDELA DISTRIBUTION (continued):

	0°
162°	2308.6
163°	2550.0
164°	2805.0
165°	3049.4
166°	3274.3
167°	3487.0
168°	3680.2
169°	3860.5
170°	4026.4
171°	4178.8
172°	4321.4
173°	4445.9
174°	4546.3
175°	4622.4
176°	4679.0
177°	4717.5
178°	4749.9
179°	4780.9
180°	4802.0

(END OF REPORT)