

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: P222068

Luminaire Tested: **9004-W2-FL-LED3590-M-WT-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222068
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29497)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9004-W2-FL-LED3590-M-WT-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, MEDIUM FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 3500K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4569.0 lumens
Efficiency: N/A
Efficacy: 79.9 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

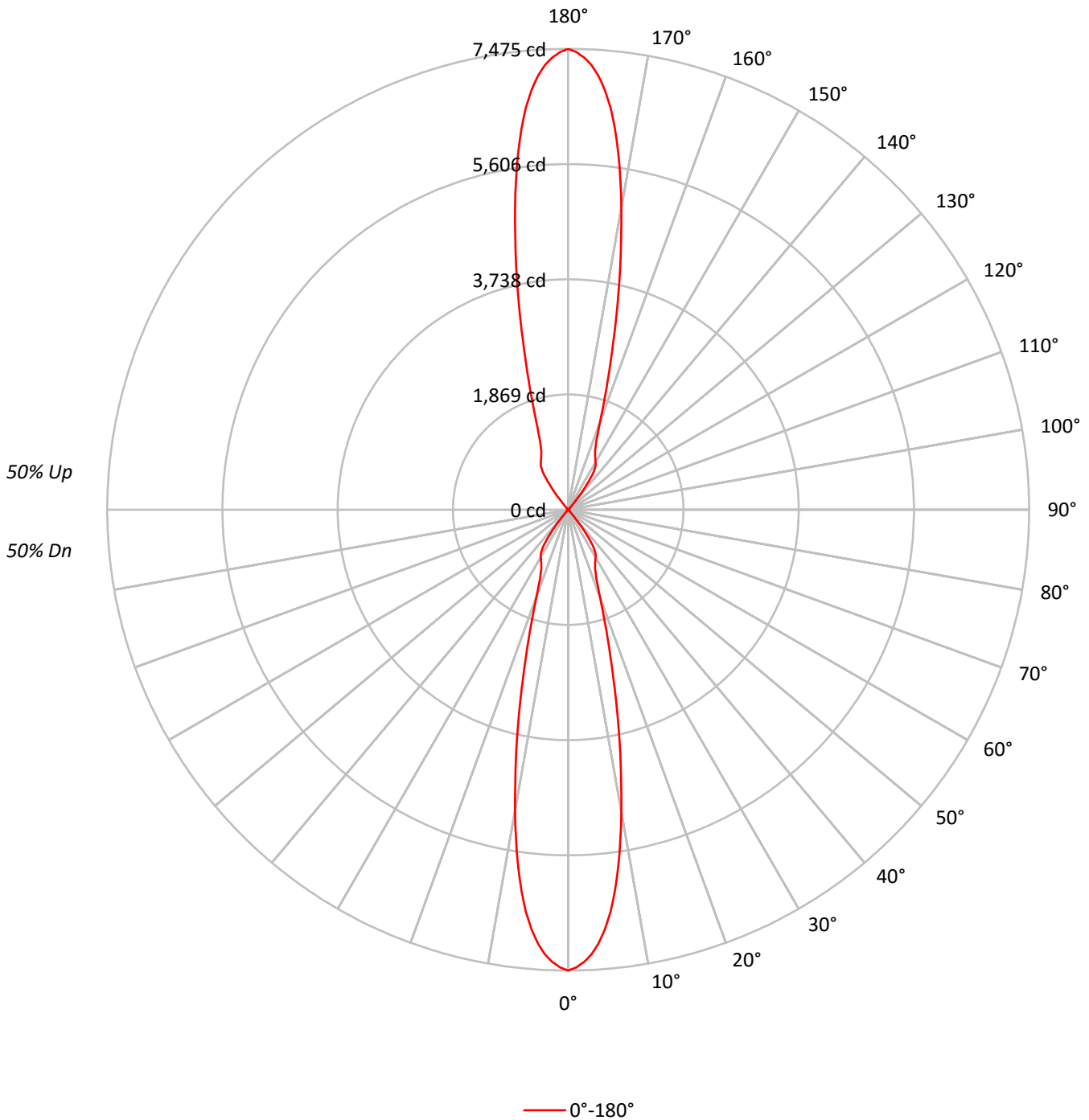
Input Watts (W): 57.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	92	93	90	88	86	77	76	74		65	64	63		54	53	53	48
2	94	89	84	81	87	83	79	76	72	69	67		61	59	58		52	51	50	45
3	89	82	76	72	82	76	72	68	67	63	61		58	56	54		49	48	47	43
4	83	75	69	65	78	71	66	62	62	59	56		55	52	50		47	46	44	41
5	79	70	64	59	73	66	61	57	59	55	52		52	49	47		45	43	42	39
6	74	65	59	55	70	62	56	52	55	51	48		49	46	44		43	41	40	38
7	70	61	55	51	66	58	53	49	52	48	45		47	44	42		42	40	38	36
8	67	57	51	47	63	55	49	46	49	45	42		45	42	39		40	38	36	34
9	64	54	48	44	60	52	46	43	47	43	40		43	40	38		38	36	35	33
10	61	51	45	42	57	49	44	40	45	41	38		41	38	36		37	35	33	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	921959
5°	846015
10°	621620
15°	361893
20°	197352
25°	140261
30°	126404
35°	99562
40°	22124
45°	6070
50°	2015
55°	1226
60°	789
65°	467
70°	289
75°	381
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	591.9	13.0
10°-20°	789.9	17.3
20°-30°	494.0	10.8
30°-40°	366.4	8.0
40°-50°	34.1	0.7
50°-60°	5.5	0.1
60°-70°	1.9	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°	1.9	0.0
120°-130°	5.5	0.1
130°-140°	34.1	0.7
140°-150°	366.4	8.0
150°-160°	494.0	10.8
160°-170°	789.9	17.3
170°-180°	591.9	13.0
0°-30°	1875.9	41.1
0°-40°	2242.3	49.1
0°-60°	2281.9	49.9
0°-90°	2284.5	50.0
90°-120°	2.6	0.1
90°-150°	408.6	8.9
90°-180°	2284.0	50.0
0°-180°	4569.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7475	
5°	6833	592
15°	2834	790
25°	1031	494
35°	661	366
45°	35	34
55°	6	5
65°	2	2
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	2	2
125°	6	5
135°	35	34
145°	661	366
155°	1031	494
165°	2834	790
175°	6833	592
180°	7475	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	7474.6
1°	7425.3
2°	7341.2
3°	7220.0
4°	7053.5
5°	6832.8
6°	6558.8
7°	6228.2
8°	5842.6
9°	5412.6
10°	4963.1
11°	4503.2
12°	4057.8
13°	3623.7
14°	3211.5
15°	2834.0
16°	2490.5
17°	2190.6
18°	1921.4
19°	1693.4
20°	1503.5
21°	1353.1
22°	1232.7
23°	1143.8
24°	1078.3
25°	1030.6
26°	995.1
27°	964.3
28°	936.0
29°	911.8
30°	887.5
32.5°	820.5
35°	661.2
37.5°	400.1
40°	137.4
42.5°	47.7
45°	34.8
47.5°	25.1
50°	10.5
52.5°	8.1
55°	5.7
57.5°	4.0
60°	3.2
62.5°	2.4
65°	1.6



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	1.6
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°	1.6
115°	1.6
117.5°	2.4
120°	3.2
122.5°	4.0
125°	5.7
127.5°	8.1
130°	10.5
132.5°	25.1
135°	34.8
137.5°	47.7
140°	137.4
142.5°	400.1
145°	661.2
147.5°	820.5
150°	887.5
151°	911.8
152°	936.0
153°	964.3
154°	995.1
155°	1030.6
156°	1078.3
157°	1143.8
158°	1232.7
159°	1353.1
160°	1503.5
161°	1693.4



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CANDELA DISTRIBUTION (continued):

	0°
162°	1921.4
163°	2190.6
164°	2490.5
165°	2834.0
166°	3211.5
167°	3623.7
168°	4057.8
169°	4503.2
170°	4963.1
171°	5412.6
172°	5842.6
173°	6228.2
174°	6558.8
175°	6832.8
176°	7053.5
177°	7220.0
178°	7341.2
179°	7425.3
180°	7474.6

(END OF REPORT)