

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: P221837

Luminaire Tested: **9004-W2-[RW, RI]-LED3590-W-BK-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221837
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29494)
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]-LED3590-W-BK-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, WIDE FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3500K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3858.8 lumens
Efficiency: N/A
Efficacy: 67.5 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.83
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

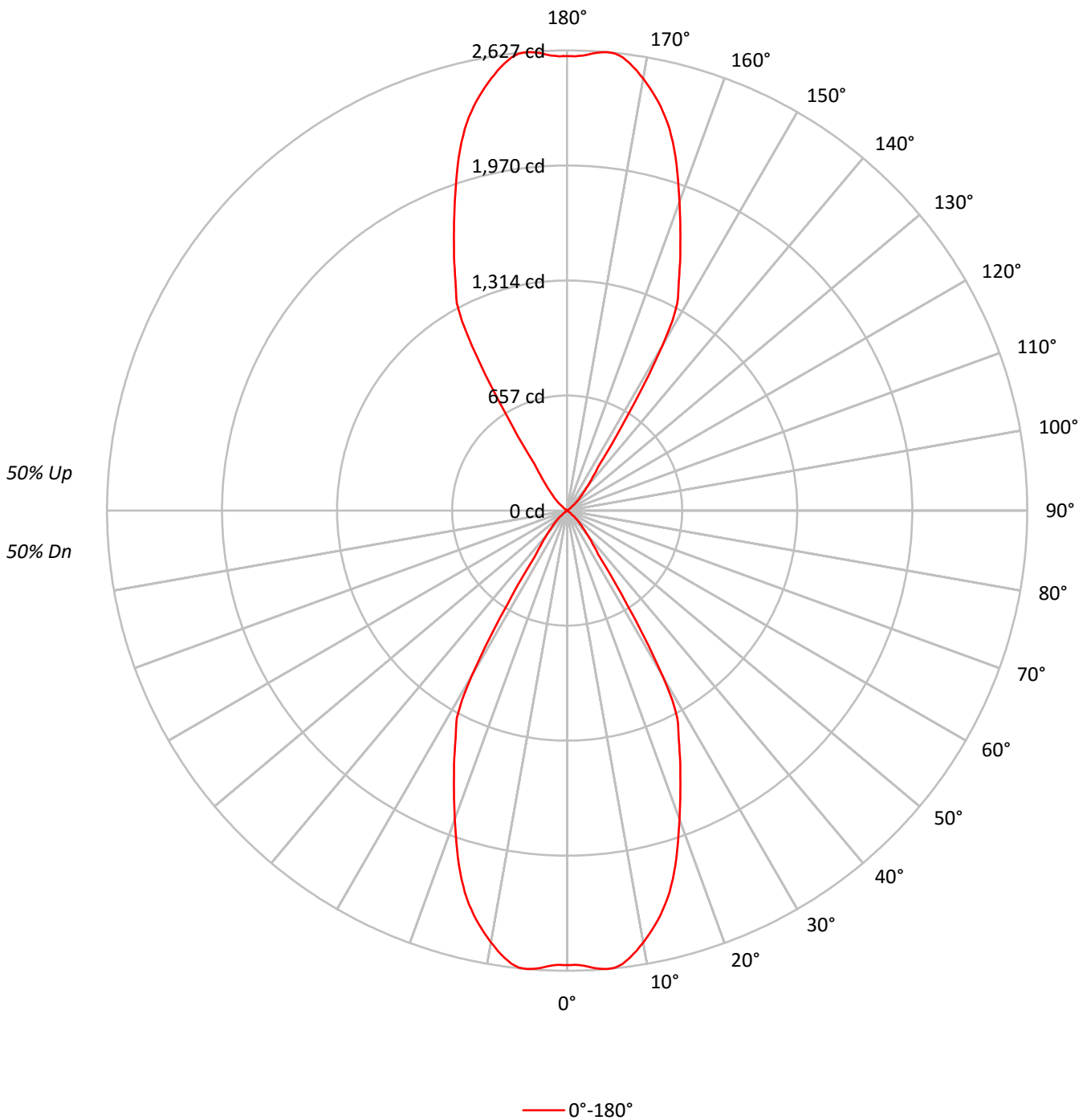
Input Watts (W): 57.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	97	94	91	93	90	87	85	77	75	74	65	64	63	53	53	52	47
2	94	88	83	79	87	82	78	75	71	68	66	60	59	57	51	50	49	44
3	88	80	75	70	81	75	70	67	65	62	59	56	54	52	48	47	45	42
4	82	74	68	63	76	69	64	60	61	57	54	53	50	48	46	44	42	39
5	77	68	62	57	72	64	58	54	57	52	49	50	47	44	43	41	40	37
6	72	63	56	52	68	59	54	50	53	49	45	47	44	41	41	39	37	35
7	68	58	52	47	64	55	50	46	49	45	42	44	41	38	39	37	35	33
8	64	54	48	44	60	52	46	42	46	42	39	41	38	36	37	35	33	31
9	61	51	45	40	57	48	43	39	44	39	36	39	36	34	35	33	31	29
10	58	48	42	38	54	45	40	36	41	37	34	37	34	32	33	31	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	320045
5°	325279
10°	313547
15°	288199
20°	246050
25°	206704
30°	154733
35°	48561
40°	28758
45°	17479
50°	7292
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°	246.8	6.4
10°-20°	622.5	16.1
20°-30°	693.3	18.0
30°-40°	276.6	7.2
40°-50°	79.1	2.0
50°-60°	8.8	0.2
60°-70°	1.7	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°	1.7	0.0
120°-130°	8.8	0.2
130°-140°	79.1	2.0
140°-150°	276.6	7.2
150°-160°	693.3	18.0
160°-170°	622.5	16.1
170°-180°	246.8	6.4
0°-30°	1562.6	40.5
0°-40°	1839.2	47.7
0°-60°	1927.0	49.9
0°-90°	1929.4	50.0
90°-120°	2.4	0.1
90°-150°	366.8	9.5
90°-180°	1929.0	50.0
0°-180°	3858.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2595	
5°	2627	247
15°	2257	622
25°	1519	693
35°	322	277
45°	100	79
55°	6	9
65°	2	2
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	2	2
125°	6	9
135°	100	79
145°	322	277
155°	1519	693
165°	2257	622
175°	2627	247
180°	2595	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2594.7
1°	2593.9
2°	2598.8
3°	2610.9
4°	2622.2
5°	2627.1
6°	2623.8
7°	2606.9
8°	2577.8
9°	2542.2
10°	2503.4
11°	2461.4
12°	2417.7
13°	2369.2
14°	2315.9
15°	2256.9
16°	2188.1
17°	2114.6
18°	2034.6
19°	1952.9
20°	1874.5
21°	1798.5
22°	1725.8
23°	1654.6
24°	1587.6
25°	1518.8
26°	1454.2
27°	1398.4
28°	1340.2
29°	1237.6
30°	1086.4
32.5°	635.3
35°	322.5
37.5°	238.5
40°	178.6
42.5°	132.6
45°	100.2
47.5°	74.4
50°	38.0
52.5°	9.7
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°	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°	1.6
117.5°	2.4
120°	3.2
122.5°	4.0
125°	5.7
127.5°	9.7
130°	38.0
132.5°	74.4
135°	100.2
137.5°	132.6
140°	178.6
142.5°	238.5
145°	322.5
147.5°	635.3
150°	1086.4
151°	1237.6
152°	1340.2
153°	1398.4
154°	1454.2
155°	1518.8
156°	1587.6
157°	1654.6
158°	1725.8
159°	1798.5
160°	1874.5
161°	1952.9



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CANDELA DISTRIBUTION (continued):

	0°
162°	2034.6
163°	2114.6
164°	2188.1
165°	2256.9
166°	2315.9
167°	2369.2
168°	2417.7
169°	2461.4
170°	2503.4
171°	2542.2
172°	2577.8
173°	2606.9
174°	2623.8
175°	2627.1
176°	2622.2
177°	2610.9
178°	2598.8
179°	2593.9
180°	2594.7

(END OF REPORT)