

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: P221822

Luminaire Tested: **9004-W2-[RW, RI]-LED3590-F-WT-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221822
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29489)
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-F-WT-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 3500K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4363.2 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.57
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

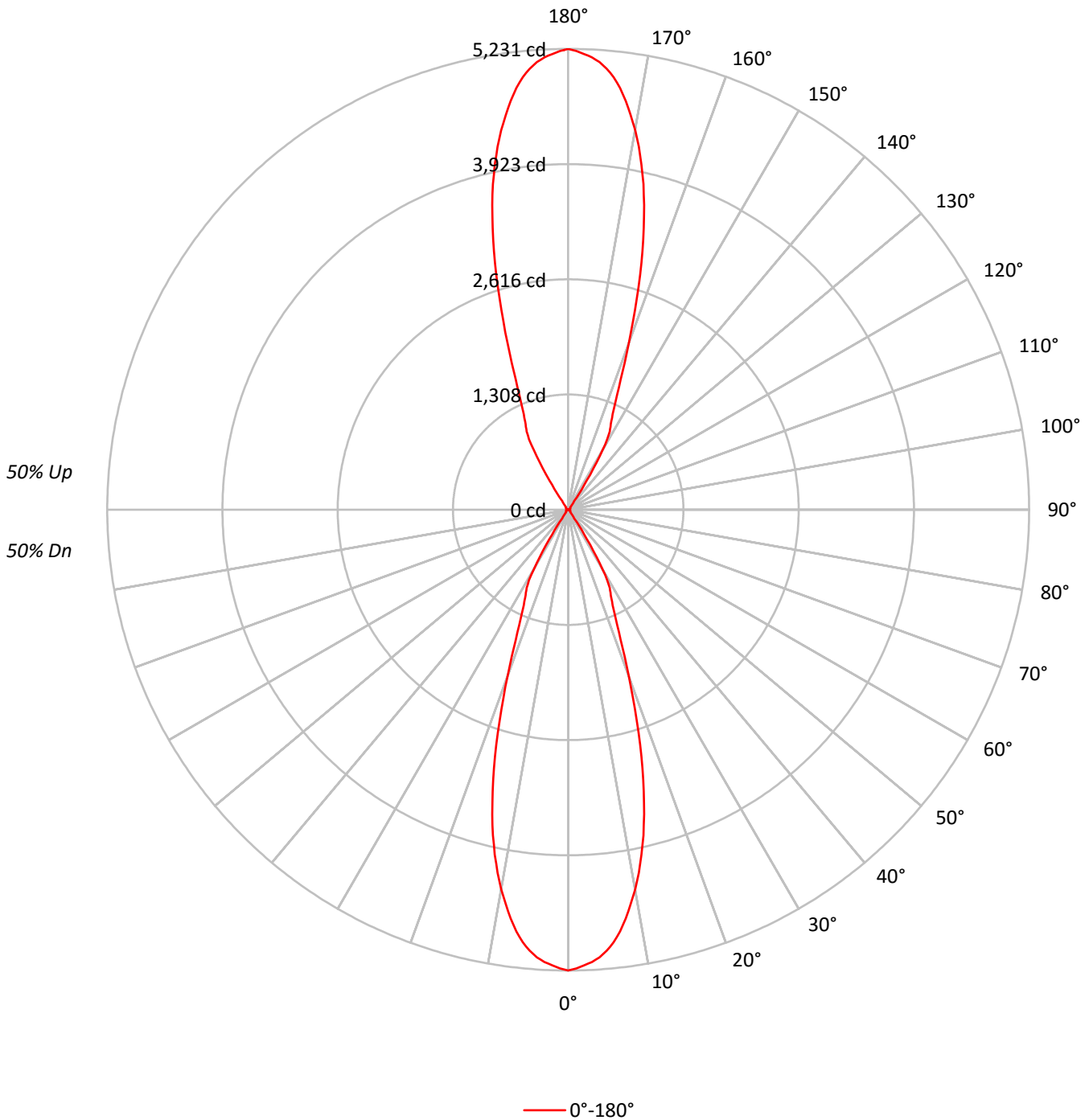
Input Watts (W): 57
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	84	80	87	82	78	75	71	68	66	61	59	57	51	50	49	45
3	88	81	76	71	82	76	71	67	66	63	60	57	55	53	49	47	46	42
4	83	75	69	64	77	70	65	61	62	58	55	54	51	49	47	45	44	40
5	78	69	63	59	73	65	60	56	58	54	51	51	48	46	45	43	41	39
6	74	65	58	54	69	61	56	52	55	51	48	49	46	43	43	41	39	37
7	70	60	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	54	48	44	60	51	46	42	46	42	40	42	39	37	38	36	34	33
10	60	51	45	41	57	48	43	40	44	40	38	40	37	35	37	34	33	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	645184
5°	622130
10°	547824
15°	422996
20°	264085
25°	162595
30°	111449
35°	17527
40°	7938
45°	5355
50°	5584
55°	6086
60°	6784
65°	7559
70°	8727
75°	10771
80°	12644
85°	12596



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	458.7	10.5
10°-20°	889.5	20.4
20°-30°	576.0	13.2
30°-40°	148.2	3.4
40°-50°	25.3	0.6
50°-60°	25.6	0.6
60°-70°	25.7	0.6
70°-80°	23.0	0.5
80°-90°	9.7	0.2
90°-100°	9.7	0.2
100°-110°	23.0	0.5
110°-120°	25.7	0.6
120°-130°	25.6	0.6
130°-140°	25.3	0.6
140°-150°	148.2	3.4
150°-160°	576.0	13.2
160°-170°	889.5	20.4
170°-180°	458.7	10.5
0°-30°	1924.2	44.1
0°-40°	2072.4	47.5
0°-60°	2123.2	48.7
0°-90°	2181.6	50.0
90°-120°	58.4	1.3
90°-150°	257.4	5.9
90°-180°	2182.0	50.0
0°-180°	4363.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5231	
5°	5025	459
15°	3312	889
25°	1195	576
35°	116	148
45°	31	25
55°	28	26
65°	26	26
75°	23	23
85°	9	9
90°	0	1
95°	9	9
105°	23	23
115°	26	26
125°	28	26
135°	31	25
145°	116	148
155°	1195	576
165°	3312	889
175°	5025	459
180°	5231	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5230.7
1°	5207.3
2°	5176.5
3°	5140.2
4°	5093.3
5°	5024.6
6°	4937.3
7°	4823.3
8°	4686.7
9°	4534.7
10°	4373.9
11°	4197.6
12°	4003.7
13°	3793.5
14°	3563.1
15°	3312.5
16°	3053.9
17°	2787.9
18°	2521.2
19°	2258.5
20°	2011.9
21°	1786.4
22°	1590.0
23°	1424.3
24°	1294.1
25°	1194.7
26°	1116.3
27°	1055.7
28°	1004.8
29°	915.8
30°	782.5
32.5°	391.2
35°	116.4
37.5°	74.4
40°	49.3
42.5°	31.5
45°	30.7
47.5°	29.9
50°	29.1
52.5°	29.1
55°	28.3
57.5°	28.3
60°	27.5
62.5°	26.7
65°	25.9



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	25.1
70°	24.2
72.5°	23.4
75°	22.6
77.5°	20.2
80°	17.8
82.5°	13.7
85°	8.9
87.5°	4.0
90°	0.0
92.5°	4.0
95°	8.9
97.5°	13.7
100°	17.8
102.5°	20.2
105°	22.6
107.5°	23.4
110°	24.2
112.5°	25.1
115°	25.9
117.5°	26.7
120°	27.5
122.5°	28.3
125°	28.3
127.5°	29.1
130°	29.1
132.5°	29.9
135°	30.7
137.5°	31.5
140°	49.3
142.5°	74.4
145°	116.4
147.5°	391.2
150°	782.5
151°	915.8
152°	1004.8
153°	1055.7
154°	1116.3
155°	1194.7
156°	1294.1
157°	1424.3
158°	1590.0
159°	1786.4
160°	2011.9
161°	2258.5



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CANDELA DISTRIBUTION (continued):

	0°
162°	2521.2
163°	2787.9
164°	3053.9
165°	3312.5
166°	3563.1
167°	3793.5
168°	4003.7
169°	4197.6
170°	4373.9
171°	4534.7
172°	4686.7
173°	4823.3
174°	4937.3
175°	5024.6
176°	5093.3
177°	5140.2
178°	5176.5
179°	5207.3
180°	5230.7

(END OF REPORT)