

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: P221819

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221819
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29493)
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-BK-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3500K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

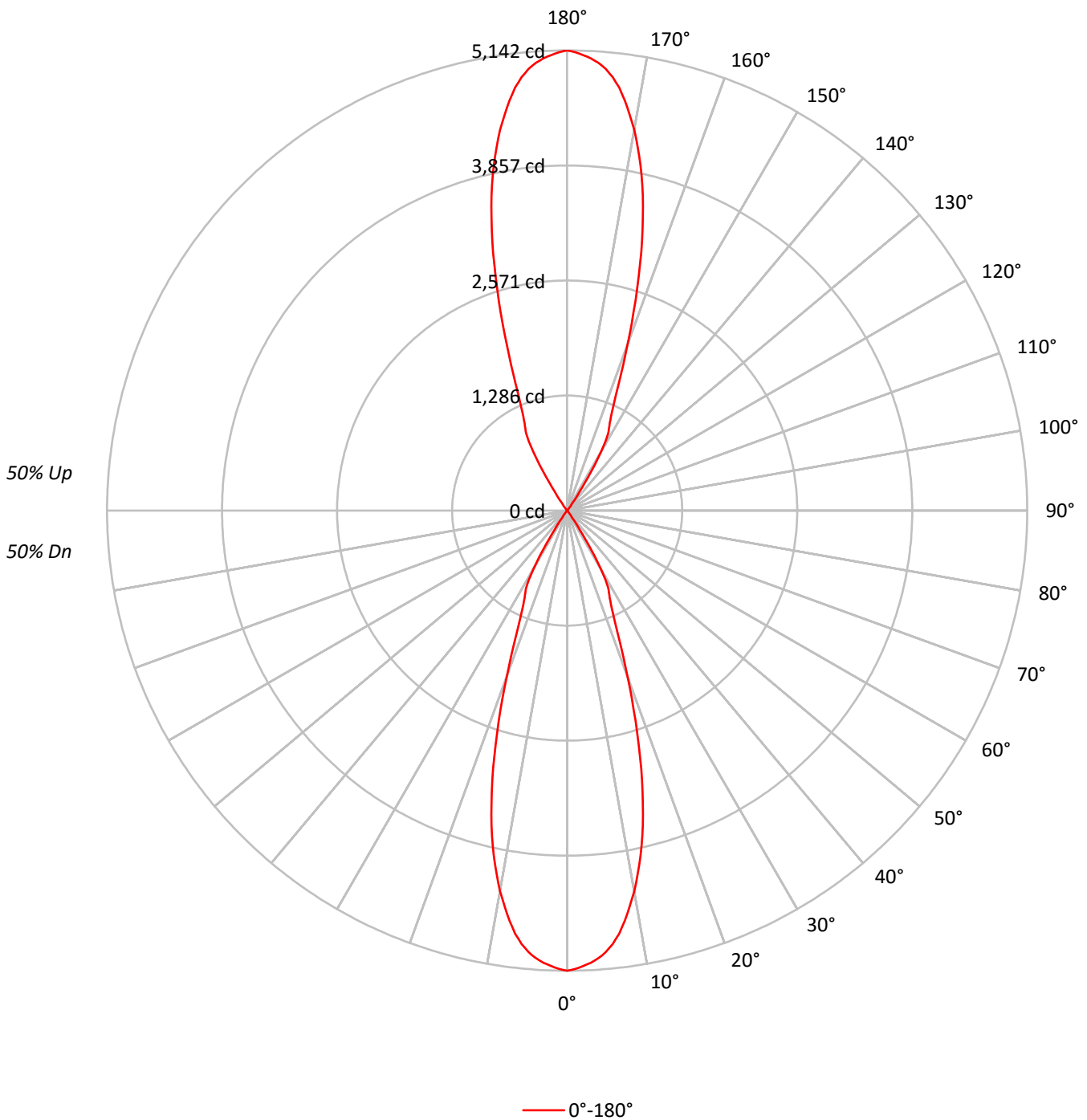
Lumens per Lamp: N/A
Luminaire Lumens: 4060.2 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.56
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 57.2
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	101	97	95	92	93	90	88	86	77	76	74		65	64	63		54	53	53	48
2	95	89	85	81	88	83	79	76	72	69	67		61	60	58		52	51	50	46
3	89	82	77	73	83	77	72	69	67	64	61		58	56	54		50	49	47	44
4	84	76	70	66	78	71	66	63	63	59	57		55	53	51		48	46	45	42
5	79	71	65	60	74	67	61	58	59	55	53		52	50	48		46	44	43	40
6	75	66	60	55	70	62	57	53	56	52	49		50	47	45		44	42	41	38
7	71	62	56	52	67	59	53	50	53	49	46		48	45	43		42	41	39	37
8	68	58	52	48	64	55	50	47	50	46	44		45	43	40		41	39	37	35
9	64	55	49	45	61	52	47	44	48	44	41		43	41	39		39	37	36	34
10	61	52	46	43	58	50	45	41	46	42	39		42	39	37		38	36	35	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	634219
5°	613215
10°	540735
15°	416292
20°	258257
25°	157981
30°	107533
35°	14245
40°	4042
45°	994
50°	768
55°	516
60°	395
65°	467
70°	289
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.4	11.1
10°-20°	874.5	21.5
20°-30°	560.7	13.8
30°-40°	132.2	3.3
40°-50°	6.3	0.2
50°-60°	2.4	0.1
60°-70°	1.3	0.0
70°-80°	0.3	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.5	0.0
110°-120°	1.3	0.0
120°-130°	2.4	0.1
130°-140°	6.3	0.2
140°-150°	132.2	3.3
150°-160°	560.7	13.8
160°-170°	874.5	21.5
170°-180°	452.4	11.1
0°-30°	1887.7	46.5
0°-40°	2019.8	49.7
0°-60°	2028.5	50.0
0°-90°	2030.1	50.0
90°-120°	1.8	0.0
90°-150°	142.6	3.5
90°-180°	2030.0	50.0
0°-180°	4060.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5142	
5°	4953	452
15°	3260	875
25°	1161	561
35°	95	132
45°	6	6
55°	2	2
65°	2	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	1
115°	2	1
125°	2	2
135°	6	6
145°	95	132
155°	1161	561
165°	3260	875
175°	4953	452
180°	5142	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5141.8
1°	5123.2
2°	5093.3
3°	5059.3
4°	5014.9
5°	4952.6
6°	4869.4
7°	4763.5
8°	4626.0
9°	4476.5
10°	4317.3
11°	4137.0
12°	3943.8
13°	3734.5
14°	3502.5
15°	3260.0
16°	3002.9
17°	2737.0
18°	2471.9
19°	2214.8
20°	1967.5
21°	1747.6
22°	1551.2
23°	1386.3
24°	1261.0
25°	1160.8
26°	1085.6
27°	1027.4
28°	975.6
29°	887.5
30°	755.0
32.5°	360.5
35°	94.6
37.5°	50.1
40°	25.1
42.5°	8.1
45°	5.7
47.5°	4.8
50°	4.0
52.5°	3.2
55°	2.4
57.5°	2.4
60°	1.6
62.5°	1.6
65°	1.6



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.8
70°	0.8
72.5°	0.8
75°	0.0
77.5°	0.0
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°	0.0
105°	0.0
107.5°	0.8
110°	0.8
112.5°	0.8
115°	1.6
117.5°	1.6
120°	1.6
122.5°	2.4
125°	2.4
127.5°	3.2
130°	4.0
132.5°	4.8
135°	5.7
137.5°	8.1
140°	25.1
142.5°	50.1
145°	94.6
147.5°	360.5
150°	755.0
151°	887.5
152°	975.6
153°	1027.4
154°	1085.6
155°	1160.8
156°	1261.0
157°	1386.3
158°	1551.2
159°	1747.6
160°	1967.5
161°	2214.8



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CANDELA DISTRIBUTION (continued):

	0°
162°	2471.9
163°	2737.0
164°	3002.9
165°	3260.0
166°	3502.5
167°	3734.5
168°	3943.8
169°	4137.0
170°	4317.3
171°	4476.5
172°	4626.0
173°	4763.5
174°	4869.4
175°	4952.6
176°	5014.9
177°	5059.3
178°	5093.3
179°	5123.2
180°	5141.8

(END OF REPORT)