

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: P221834

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221834
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29487)
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-S-WT-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, SPOT OPTIC, WHITE HOUSING.
Light Source: (1) 3500K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4270.0 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Spacing Criteria (0/90/45): 0.27 / 0.27 / 0.27
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

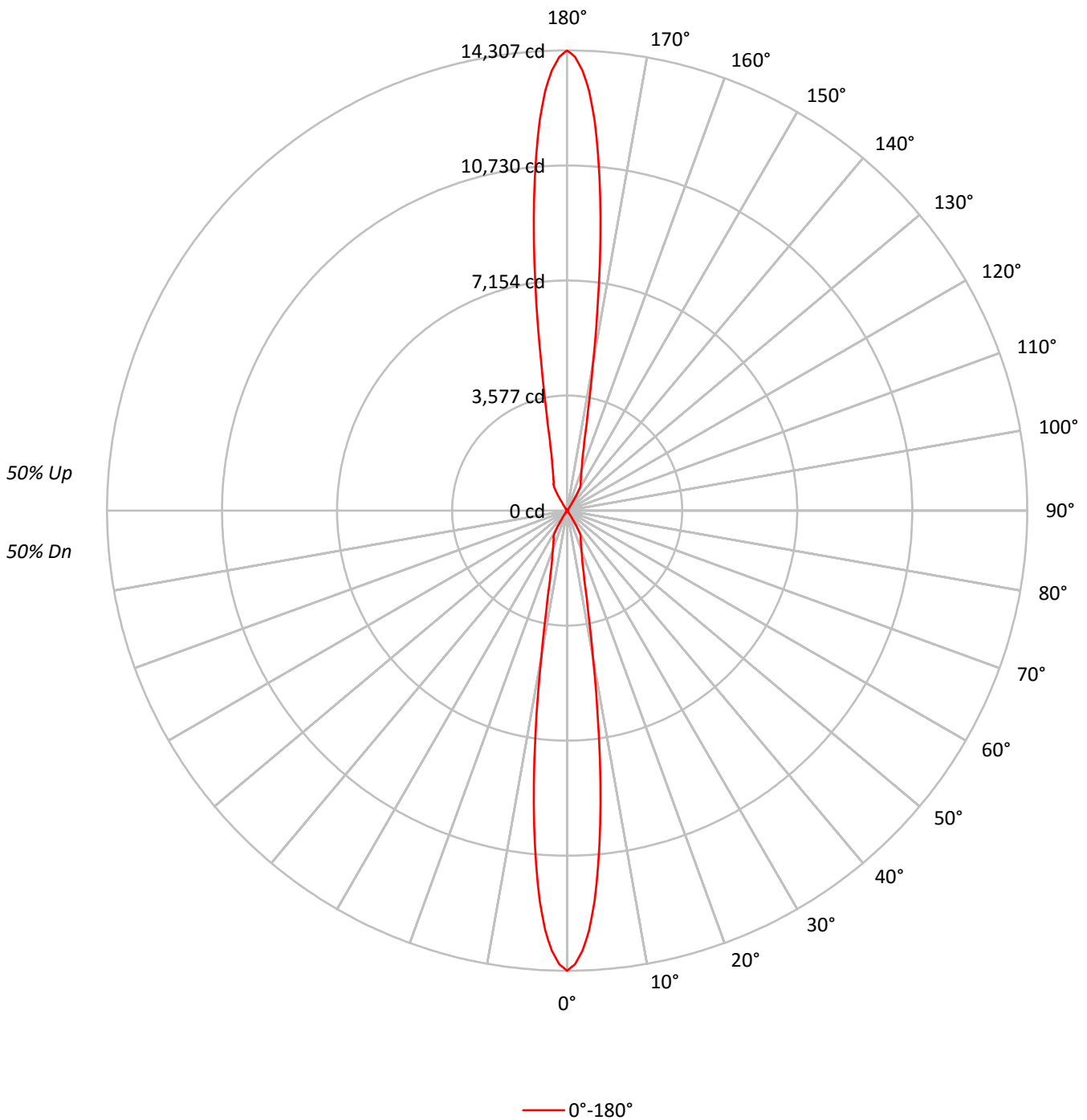
Input Watts (W): 57.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	92	93	90	88	86	77	75	74	65	64	63	54	53	53	48
2	94	89	85	81	87	83	79	76	72	69	67	61	60	58	52	51	50	46
3	89	82	77	72	83	77	72	69	67	64	61	58	56	54	50	48	47	44
4	84	76	70	66	78	72	67	63	63	60	57	55	53	51	48	46	45	42
5	79	71	65	61	74	67	62	58	60	56	53	53	50	48	46	45	43	41
6	75	67	61	56	71	63	58	54	57	53	50	50	48	46	45	43	42	39
7	72	63	57	53	67	60	54	51	54	50	47	48	46	44	43	42	40	38
8	68	59	54	50	65	57	52	48	51	48	45	47	44	42	42	40	39	37
9	66	56	51	47	62	54	49	46	49	46	43	45	42	40	41	39	38	36
10	63	54	48	45	59	52	47	43	47	44	41	43	41	39	40	38	36	35

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1764755
5°	1371358
10°	581128
15°	248447
20°	169656
25°	135199
30°	101081
35°	13386
40°	7165
45°	5216
50°	5584
55°	6086
60°	6784
65°	7793
70°	9052
75°	10771
80°	12644
85°	12596



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	835.8	19.6
10°-20°	598.9	14.0
20°-30°	462.2	10.8
30°-40°	128.1	3.0
40°-50°	24.8	0.6
50°-60°	25.4	0.6
60°-70°	26.4	0.6
70°-80°	23.6	0.6
80°-90°	9.9	0.2
90°-100°	9.9	0.2
100°-110°	23.6	0.6
110°-120°	26.4	0.6
120°-130°	25.4	0.6
130°-140°	24.8	0.6
140°-150°	128.1	3.0
150°-160°	462.2	10.8
160°-170°	598.9	14.0
170°-180°	835.8	19.6
0°-30°	1896.9	44.4
0°-40°	2024.9	47.4
0°-60°	2075.1	48.6
0°-90°	2135.0	50.0
90°-120°	59.8	1.4
90°-150°	238.1	5.6
90°-180°	2135.0	50.0
0°-180°	4270.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14307	
5°	11076	836
15°	1946	599
25°	993	462
35°	89	128
45°	30	25
55°	28	25
65°	27	26
75°	23	24
85°	9	9
90°	0	1
95°	9	9
105°	23	24
115°	27	26
125°	28	25
135°	30	25
145°	89	128
155°	993	462
165°	1946	599
175°	11076	836
180°	14307	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	14307.4
1°	14106.9
2°	13691.5
3°	13060.1
4°	12182.3
5°	11075.7
6°	9826.0
7°	8506.8
8°	7078.5
9°	5783.6
10°	4639.8
11°	3738.5
12°	3054.7
13°	2560.0
14°	2210.0
15°	1945.6
16°	1749.2
17°	1602.1
18°	1486.5
19°	1385.5
20°	1292.5
22.5°	1119.5
25°	993.4
26°	961.1
27°	933.6
28°	900.5
29°	828.5
30°	709.7
32.5°	341.1
35°	88.9
37.5°	57.4
40°	44.5
42.5°	33.1
45°	29.9
47.5°	29.1
50°	29.1
52.5°	28.3
55°	28.3
57.5°	28.3
60°	27.5
62.5°	27.5
65°	26.7
67.5°	25.9
70°	25.1
72.5°	24.2



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CANDELA DISTRIBUTION (continued):

	0°
75°	22.6
77.5°	21.0
80°	17.8
82.5°	14.5
85°	8.9
87.5°	4.0
90°	0.0
92.5°	4.0
95°	8.9
97.5°	14.5
100°	17.8
102.5°	21.0
105°	22.6
107.5°	24.2
110°	25.1
112.5°	25.9
115°	26.7
117.5°	27.5
120°	27.5
122.5°	28.3
125°	28.3
127.5°	28.3
130°	29.1
132.5°	29.1
135°	29.9
137.5°	33.1
140°	44.5
142.5°	57.4
145°	88.9
147.5°	341.1
150°	709.7
151°	828.5
152°	900.5
153°	933.6
154°	961.1
155°	993.4
157.5°	1119.5
160°	1292.5
161°	1385.5
162°	1486.5
163°	1602.1
164°	1749.2
165°	1945.6
166°	2210.0
167°	2560.0



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CANDELA DISTRIBUTION (continued):

	0°
168°	3054.7
169°	3738.5
170°	4639.8
171°	5783.6
172°	7078.5
173°	8506.8
174°	9826.0
175°	11075.7
176°	12182.3
177°	13060.1
178°	13691.5
179°	14106.9
180°	14307.4

(END OF REPORT)