

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: P221833

Luminaire Tested: **9004-W2-[RW, RI]-LED3590-S-WT-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221833
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-L2-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: 3295.8 lumens
Efficiency: N/A
Efficacy: 82.0 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

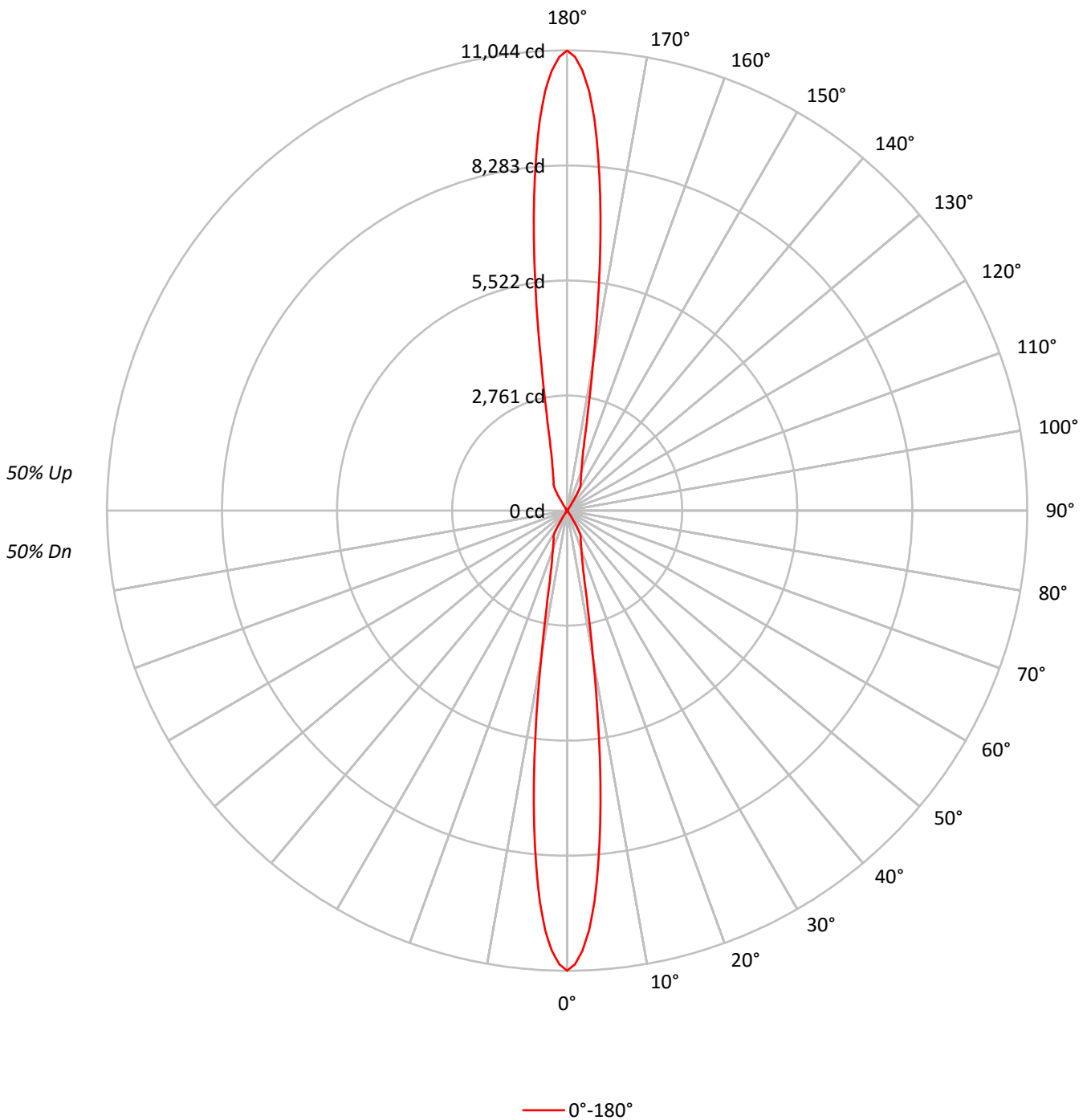
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1362167
5°	1058510
10°	448552
15°	191775
20°	130960
25°	104359
30°	78022
35°	10330
40°	5523
45°	4029
50°	4318
55°	4688
60°	5230
65°	6012
70°	6960
75°	8340
80°	9731
85°	9765



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	645.1	19.6
10°-20°	462.3	14.0
20°-30°	356.7	10.8
30°-40°	98.8	3.0
40°-50°	19.2	0.6
50°-60°	19.6	0.6
60°-70°	20.3	0.6
70°-80°	18.2	0.6
80°-90°	7.6	0.2
90°-100°	7.6	0.2
100°-110°	18.2	0.6
110°-120°	20.3	0.6
120°-130°	19.6	0.6
130°-140°	19.2	0.6
140°-150°	98.8	3.0
150°-160°	356.7	10.8
160°-170°	462.3	14.0
170°-180°	645.1	19.6
0°-30°	1464.1	44.4
0°-40°	1563.0	47.4
0°-60°	1601.7	48.6
0°-90°	1647.9	50.0
90°-120°	46.2	1.4
90°-150°	183.8	5.6
90°-180°	1648.0	50.0
0°-180°	3295.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11044	
5°	8549	645
15°	1502	462
25°	767	357
35°	69	99
45°	23	19
55°	22	20
65°	21	20
75°	18	18
85°	7	7
90°	0	1
95°	7	7
105°	18	18
115°	21	20
125°	22	20
135°	23	19
145°	69	99
155°	767	357
165°	1502	462
175°	8549	645
180°	11044	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	11043.5
1°	10888.8
2°	10568.1
3°	10080.8
4°	9403.2
5°	8549.0
6°	7584.4
7°	6566.2
8°	5463.7
9°	4464.2
10°	3581.3
11°	2885.7
12°	2357.8
13°	1976.0
14°	1705.8
15°	1501.8
16°	1350.2
17°	1236.6
18°	1147.4
19°	1069.4
20°	997.7
22.5°	864.1
25°	766.8
26°	741.8
27°	720.6
28°	695.1
29°	639.5
30°	547.8
32.5°	263.3
35°	68.6
37.5°	44.3
40°	34.3
42.5°	25.6
45°	23.1
47.5°	22.5
50°	22.5
52.5°	21.8
55°	21.8
57.5°	21.8
60°	21.2
62.5°	21.2
65°	20.6
67.5°	20.0
70°	19.3
72.5°	18.7



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CANDELA DISTRIBUTION (continued):

	0°
75°	17.5
77.5°	16.2
80°	13.7
82.5°	11.2
85°	6.9
87.5°	3.1
90°	0.0
92.5°	3.1
95°	6.9
97.5°	11.2
100°	13.7
102.5°	16.2
105°	17.5
107.5°	18.7
110°	19.3
112.5°	20.0
115°	20.6
117.5°	21.2
120°	21.2
122.5°	21.8
125°	21.8
127.5°	21.8
130°	22.5
132.5°	22.5
135°	23.1
137.5°	25.6
140°	34.3
142.5°	44.3
145°	68.6
147.5°	263.3
150°	547.8
151°	639.5
152°	695.1
153°	720.6
154°	741.8
155°	766.8
157.5°	864.1
160°	997.7
161°	1069.4
162°	1147.4
163°	1236.6
164°	1350.2
165°	1501.8
166°	1705.8
167°	1976.0



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CANDELA DISTRIBUTION (continued):

	0°
168°	2357.8
169°	2885.7
170°	3581.3
171°	4464.2
172°	5463.7
173°	6566.2
174°	7584.4
175°	8549.0
176°	9403.2
177°	10080.8
178°	10568.1
179°	10888.8
180°	11043.5

(END OF REPORT)