

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: P222121

Luminaire Tested: **9004-W2-FL-LED4080-S-WT-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222121
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29496)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9004-W2-FL-LED4080-S-WT-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, SPOT OPTIC,
WHITE HOUSING.
Light Source: (1) 4000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4324.5 lumens
Efficiency: N/A
Efficacy: 107.6 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

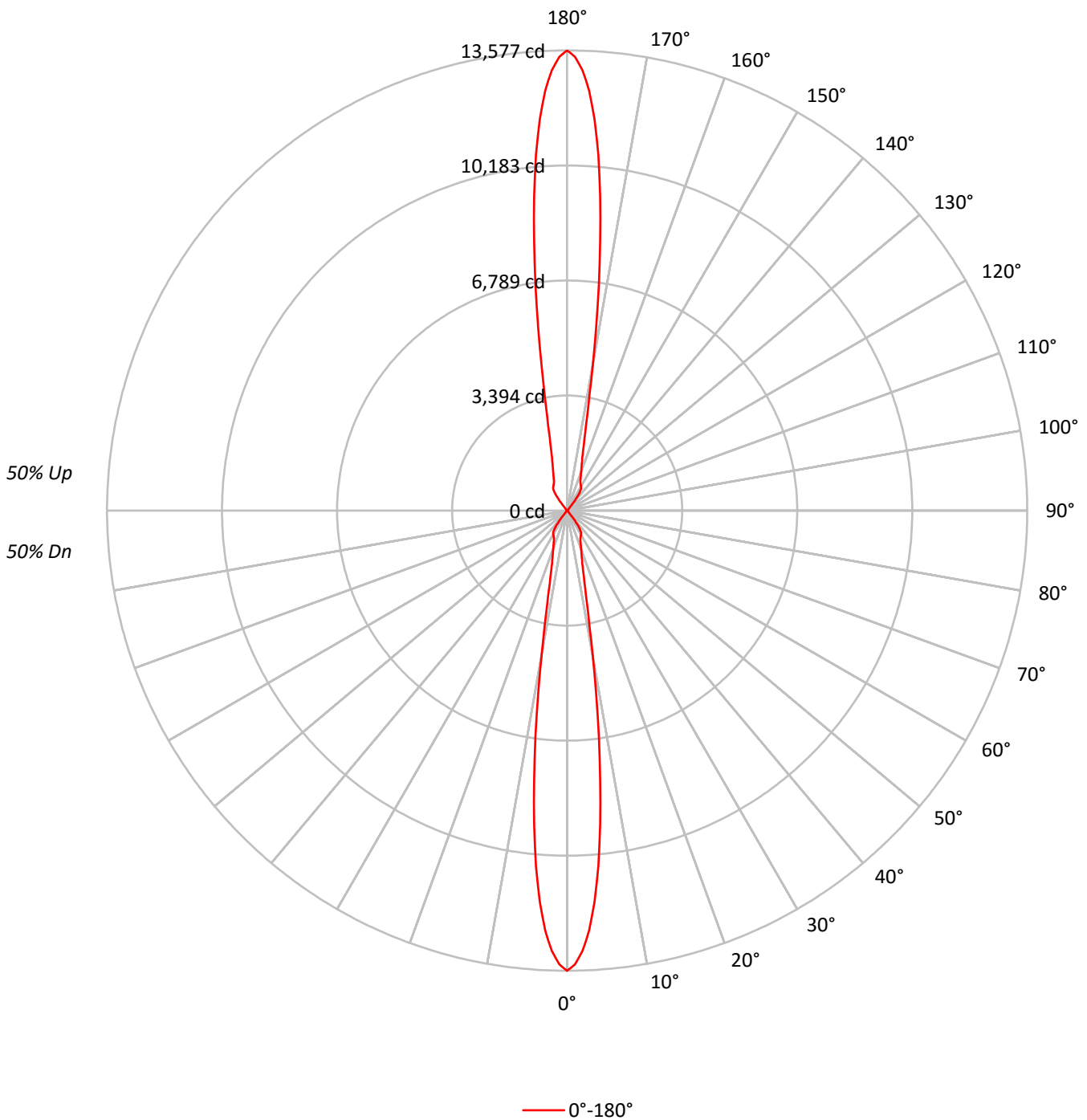
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	54	53	48
2	95	89	85	81	88	83	80	76	72	69	67		62	60	58		52	51	50	46
3	89	82	77	73	83	77	72	69	67	64	62		58	56	54		50	49	48	44
4	84	76	70	66	78	72	67	63	63	60	57		55	53	51		48	46	45	42
5	79	71	65	60	74	67	62	58	59	56	53		53	50	48		46	44	43	40
6	75	66	60	56	70	63	58	54	56	52	49		50	47	45		44	43	41	39
7	71	62	56	52	67	59	54	50	53	49	47		48	45	43		43	41	40	37
8	68	59	53	49	64	56	51	47	51	47	44		46	43	41		41	39	38	36
9	65	56	50	46	61	53	48	45	48	45	42		44	41	39		40	38	37	35
10	62	53	47	44	59	51	46	42	46	43	40		42	40	38		39	37	35	34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1674688
5°	1303580
10°	542927
15°	229561
20°	157553
25°	125740
30°	116206
35°	95074
40°	20014
45°	4570
50°	1631
55°	1333
60°	765
65°	438
70°	289
75°	381
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	791.2	18.3
10°-20°	554.5	12.8
20°-30°	437.1	10.1
30°-40°	344.1	8.0
40°-50°	27.8	0.6
50°-60°	5.4	0.1
60°-70°	1.4	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°	1.4	0.0
120°-130°	5.4	0.1
130°-140°	27.8	0.6
140°-150°	344.1	8.0
150°-160°	437.1	10.1
160°-170°	554.5	12.8
170°-180°	791.2	18.3
0°-30°	1782.8	41.2
0°-40°	2126.9	49.2
0°-60°	2160.1	50.0
0°-90°	2162.2	50.0
90°-120°	2.2	0.0
90°-150°	379.4	8.8
90°-180°	2162.0	50.0
0°-180°	4324.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	13577	
5°	10528	791
15°	1798	555
25°	924	437
35°	631	344
45°	26	28
55°	6	5
65°	2	1
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	2	1
125°	6	5
135°	26	28
145°	631	344
155°	924	437
165°	1798	555
175°	10528	791
180°	13577	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	13577.2
1°	13390.4
2°	13002.2
3°	12400.1
4°	11576.5
5°	10528.3
6°	9318.0
7°	8010.5
8°	6727.6
9°	5436.3
10°	4334.8
11°	3455.7
12°	2818.1
13°	2366.6
14°	2039.3
15°	1797.7
16°	1616.3
17°	1483.5
18°	1382.4
19°	1285.9
20°	1200.3
21°	1129.2
22°	1066.0
23°	1010.4
24°	961.8
25°	923.9
26°	895.4
27°	873.8
28°	852.9
29°	834.4
30°	815.9
32.5°	769.6
35°	631.4
37.5°	376.7
40°	124.3
42.5°	37.0
45°	26.2
47.5°	18.5
50°	8.5
52.5°	7.7
55°	6.2
57.5°	4.6
60°	3.1
62.5°	1.5
65°	1.5



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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°	1.5
117.5°	1.5
120°	3.1
122.5°	4.6
125°	6.2
127.5°	7.7
130°	8.5
132.5°	18.5
135°	26.2
137.5°	37.0
140°	124.3
142.5°	376.7
145°	631.4
147.5°	769.6
150°	815.9
151°	834.4
152°	852.9
153°	873.8
154°	895.4
155°	923.9
156°	961.8
157°	1010.4
158°	1066.0
159°	1129.2
160°	1200.3
161°	1285.9



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CANDELA DISTRIBUTION (continued):

	0°
162°	1382.4
163°	1483.5
164°	1616.3
165°	1797.7
166°	2039.3
167°	2366.6
168°	2818.1
169°	3455.7
170°	4334.8
171°	5436.3
172°	6727.6
173°	8010.5
174°	9318.0
175°	10528.3
176°	11576.5
177°	12400.1
178°	13002.2
179°	13390.4
180°	13577.2

(END OF REPORT)