

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: P222157

Luminaire Tested: **9004-W2-FL-LED5080-F-WT-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222157
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29495)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9004-W2-FL-LED5080-F-WT-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 5000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4450.1 lumens
Efficiency: N/A
Efficacy: 110.7 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

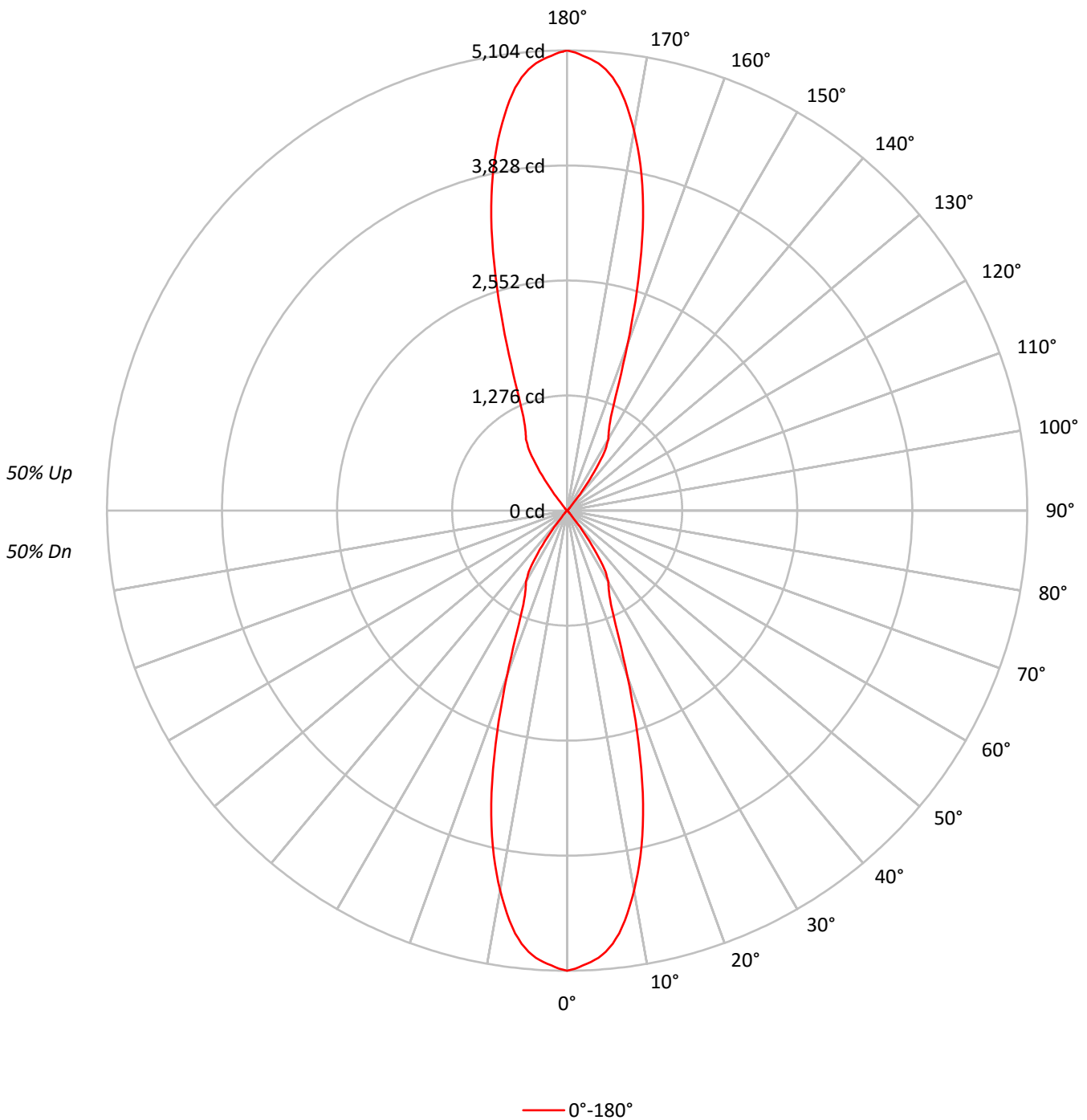
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	97	94	92	93	90	88	86	77	75	74		65	64	63		54	53	53	48
2	94	89	84	80	87	83	79	76	71	69	67		61	59	58		51	50	50	45
3	88	81	76	72	82	76	72	68	67	63	61		58	55	53		49	48	47	43
4	83	75	69	65	77	71	66	62	62	58	56		54	52	50		47	45	44	41
5	78	70	63	59	73	66	60	56	58	54	51		51	49	46		45	43	42	39
6	74	65	59	54	69	61	56	52	55	51	48		49	46	44		43	41	40	37
7	70	61	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	53	47	44	59	51	46	42	46	42	39		42	39	37		38	36	34	32
10	60	50	45	41	57	48	43	40	44	40	37		40	37	35		36	34	33	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	629531
5°	608299
10°	536001
15°	413878
20°	256918
25°	156716
30°	129965
35°	79324
40°	13429
45°	4902
50°	1075
55°	516
60°	395
65°	467
70°	289
75°	381
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.8	10.1
10°-20°	867.9	19.5
20°-30°	565.2	12.7
30°-40°	313.9	7.1
40°-50°	24.5	0.6
50°-60°	2.6	0.1
60°-70°	1.5	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°	1.5	0.0
120°-130°	2.6	0.1
130°-140°	24.5	0.6
140°-150°	313.9	7.1
150°-160°	565.2	12.7
160°-170°	867.9	19.5
170°-180°	448.8	10.1
0°-30°	1881.8	42.3
0°-40°	2195.7	49.3
0°-60°	2222.8	50.0
0°-90°	2225.1	50.0
90°-120°	2.2	0.0
90°-150°	343.2	7.7
90°-180°	2225.0	50.0
0°-180°	4450.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5104	
5°	4913	449
15°	3241	868
25°	1152	565
35°	527	314
45°	28	25
55°	2	3
65°	2	1
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	2	1
125°	2	3
135°	28	25
145°	527	314
155°	1152	565
165°	3241	868
175°	4913	449
180°	5104	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5103.8
1°	5081.3
2°	5048.4
3°	5014.0
4°	4973.1
5°	4912.9
6°	4831.9
7°	4725.3
8°	4593.0
9°	4441.4
10°	4279.5
11°	4103.1
12°	3911.4
13°	3706.1
14°	3480.0
15°	3241.1
16°	2981.3
17°	2710.2
18°	2453.7
19°	2195.5
20°	1957.3
21°	1732.8
22°	1537.9
23°	1375.2
24°	1248.5
25°	1151.5
26°	1080.9
27°	1024.8
28°	980.7
29°	945.4
30°	912.5
32.5°	773.8
35°	526.8
37.5°	270.2
40°	83.4
42.5°	40.1
45°	28.1
47.5°	17.6
50°	5.6
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°	1.6
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°	1.6
115°	1.6
117.5°	1.6
120°	1.6
122.5°	2.4
125°	2.4
127.5°	3.2
130°	5.6
132.5°	17.6
135°	28.1
137.5°	40.1
140°	83.4
142.5°	270.2
145°	526.8
147.5°	773.8
150°	912.5
151°	945.4
152°	980.7
153°	1024.8
154°	1080.9
155°	1151.5
156°	1248.5
157°	1375.2
158°	1537.9
159°	1732.8
160°	1957.3
161°	2195.5



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CANDELA DISTRIBUTION (continued):

	0°
162°	2453.7
163°	2710.2
164°	2981.3
165°	3241.1
166°	3480.0
167°	3706.1
168°	3911.4
169°	4103.1
170°	4279.5
171°	4441.4
172°	4593.0
173°	4725.3
174°	4831.9
175°	4912.9
176°	4973.1
177°	5014.0
178°	5048.4
179°	5081.3
180°	5103.8

(END OF REPORT)