

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: P222161

Luminaire Tested: **9004-W2-FL-LED5080-M-BK-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222161
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29497)
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-M-BK-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, MEDIUM FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 5000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5871.9 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

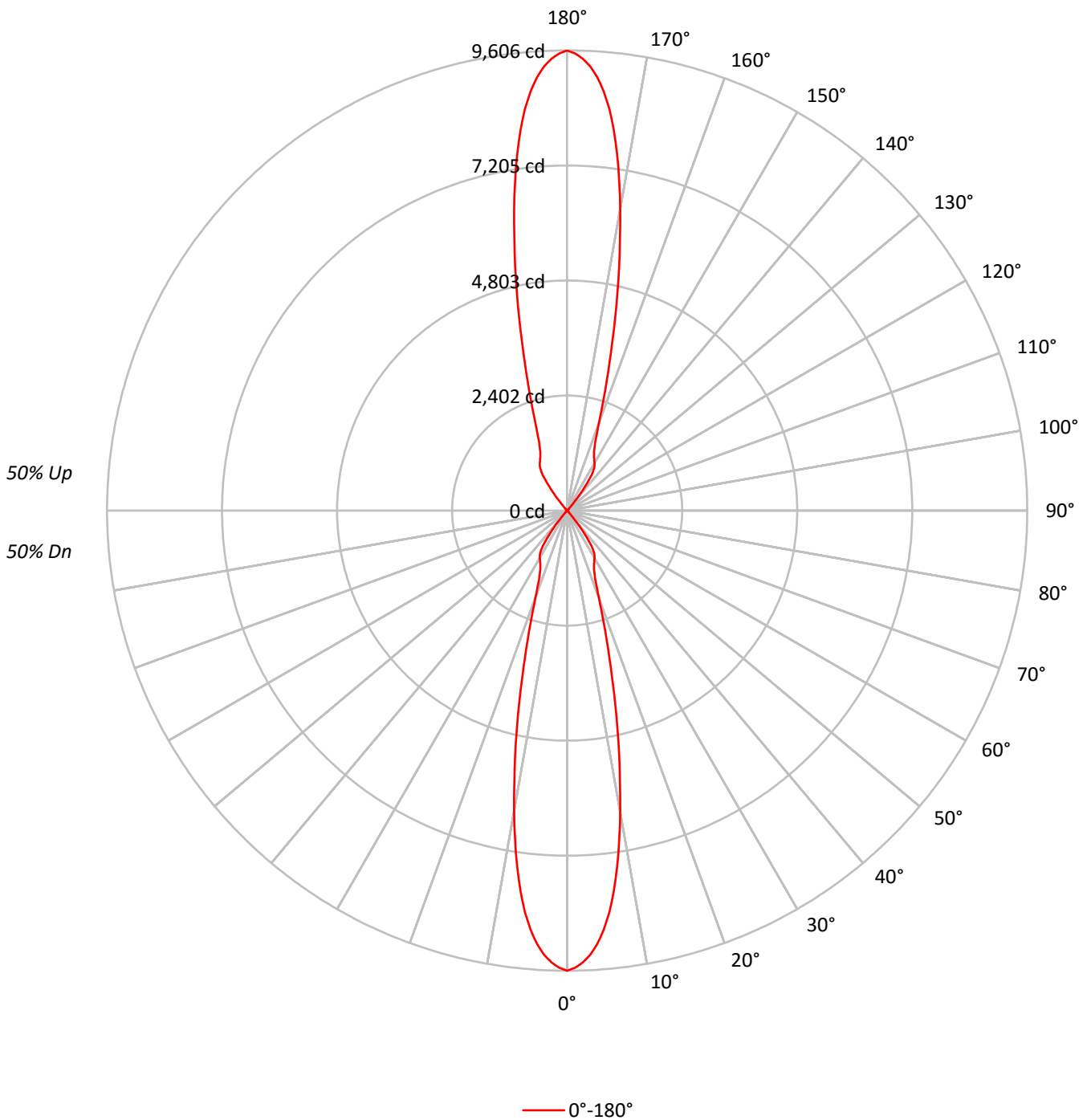
Input Watts (W): 57.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	94	92	93	90	88	86	77	76	74		65	64	63		54	53	53	48
2	94	89	84	81	87	83	79	76	72	69	67		61	59	58		52	51	50	45
3	89	82	76	72	82	76	72	68	67	63	61		58	56	54		49	48	47	43
4	83	75	69	65	78	71	66	62	62	59	56		55	52	50		47	46	44	41
5	79	70	64	59	73	66	61	57	59	55	52		52	49	47		45	43	42	39
6	74	65	59	55	70	62	56	52	55	51	48		49	46	44		43	41	40	38
7	70	61	55	51	66	58	53	49	52	48	45		47	44	42		42	40	38	36
8	67	57	51	47	63	55	49	46	49	45	42		45	42	39		40	38	36	34
9	64	54	48	44	60	52	46	43	47	43	40		43	40	38		38	36	35	33
10	61	51	45	42	57	49	44	40	45	41	38		41	38	36		37	35	33	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1184870
5°	1087272
10°	798885
15°	465084
20°	253624
25°	180260
30°	162453
35°	127961
40°	28435
45°	7797
50°	2591
55°	1570
60°	1036
65°	613
70°	361
75°	477
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	760.7	13.0
10°-20°	1015.2	17.3
20°-30°	634.9	10.8
30°-40°	470.9	8.0
40°-50°	43.9	0.7
50°-60°	7.0	0.1
60°-70°	2.4	0.0
70°-80°	0.9	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.9	0.0
110°-120°	2.4	0.0
120°-130°	7.0	0.1
130°-140°	43.9	0.7
140°-150°	470.9	8.0
150°-160°	634.9	10.8
160°-170°	1015.2	17.3
170°-180°	760.7	13.0
0°-30°	2410.8	41.1
0°-40°	2881.7	49.1
0°-60°	2932.6	49.9
0°-90°	2935.9	50.0
90°-120°	3.4	0.1
90°-150°	525.2	8.9
90°-180°	2936.0	50.0
0°-180°	5871.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9606	
5°	8781	761
15°	3642	1015
25°	1324	635
35°	850	471
45°	45	44
55°	7	7
65°	2	2
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	2	2
125°	7	7
135°	45	44
145°	850	471
155°	1324	635
165°	3642	1015
175°	8781	761
180°	9606	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	9606.1
1°	9542.7
2°	9434.7
3°	9278.9
4°	9064.9
5°	8781.3
6°	8429.1
7°	8004.2
8°	7508.7
9°	6956.0
10°	6378.4
11°	5787.3
12°	5214.9
13°	4657.1
14°	4127.3
15°	3642.1
16°	3200.6
17°	2815.2
18°	2469.3
19°	2176.4
20°	1932.2
21°	1739.0
22°	1584.2
23°	1469.9
24°	1385.8
25°	1324.5
26°	1278.8
27°	1239.3
28°	1203.0
29°	1171.8
30°	1140.6
32.5°	1054.4
35°	849.8
37.5°	514.2
40°	176.6
42.5°	61.3
45°	44.7
47.5°	32.2
50°	13.5
52.5°	10.4
55°	7.3
57.5°	5.2
60°	4.2
62.5°	3.1
65°	2.1



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	2.1
70°	1.0
72.5°	1.0
75°	1.0
77.5°	1.0
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°	1.0
105°	1.0
107.5°	1.0
110°	1.0
112.5°	2.1
115°	2.1
117.5°	3.1
120°	4.2
122.5°	5.2
125°	7.3
127.5°	10.4
130°	13.5
132.5°	32.2
135°	44.7
137.5°	61.3
140°	176.6
142.5°	514.2
145°	849.8
147.5°	1054.4
150°	1140.6
151°	1171.8
152°	1203.0
153°	1239.3
154°	1278.8
155°	1324.5
156°	1385.8
157°	1469.9
158°	1584.2
159°	1739.0
160°	1932.2
161°	2176.4



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CANDELA DISTRIBUTION (continued):

	0°
162°	2469.3
163°	2815.2
164°	3200.6
165°	3642.1
166°	4127.3
167°	4657.1
168°	5214.9
169°	5787.3
170°	6378.4
171°	6956.0
172°	7508.7
173°	8004.2
174°	8429.1
175°	8781.3
176°	9064.9
177°	9278.9
178°	9434.7
179°	9542.7
180°	9606.1

(END OF REPORT)