

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: P222166

Luminaire Tested: **9004-W2-FL-LED5080-S-BK-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222166
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-LED5080-S-BK-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, SPOT OPTIC, BLACK HOUSING.
Light Source: (1) 5000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

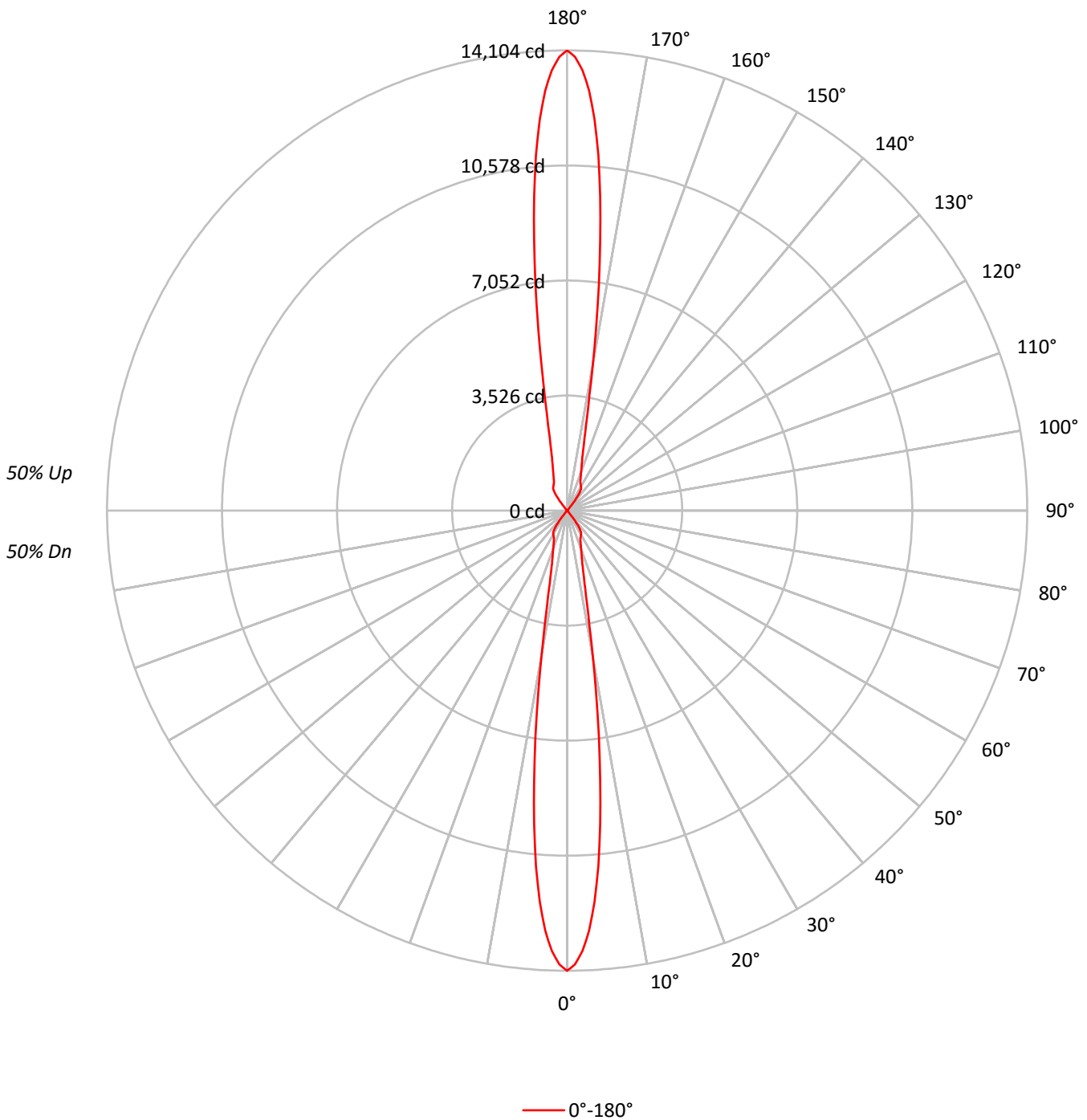
Lumens per Lamp: N/A
Luminaire Lumens: 4492.3 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Spacing Criteria (0/90/45): 0.27 / 0.27 / 0.27
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

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	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°	1739728
5°	1354209
10°	564019
15°	238474
20°	163670
25°	130626
30°	120721
35°	98764
40°	20787
45°	4762
50°	1689
55°	1376
60°	789
65°	467
70°	289
75°	381
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	822.0	18.3
10°-20°	576.0	12.8
20°-30°	454.0	10.1
30°-40°	357.5	8.0
40°-50°	28.9	0.6
50°-60°	5.6	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°	5.6	0.1
130°-140°	28.9	0.6
140°-150°	357.5	8.0
150°-160°	454.0	10.1
160°-170°	576.0	12.8
170°-180°	822.0	18.3
0°-30°	1852.0	41.2
0°-40°	2209.5	49.2
0°-60°	2243.9	50.0
0°-90°	2246.2	50.0
90°-120°	2.2	0.0
90°-150°	394.1	8.8
90°-180°	2246.0	50.0
0°-180°	4492.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14104	
5°	10937	822
15°	1868	576
25°	960	454
35°	656	357
45°	27	29
55°	6	6
65°	2	1
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	2	1
125°	6	6
135°	27	29
145°	656	357
155°	960	454
165°	1868	576
175°	10937	822
180°	14104	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	14104.5
1°	13910.4
2°	13507.1
3°	12881.6
4°	12026.1
5°	10937.2
6°	9679.9
7°	8321.6
8°	6988.9
9°	5647.4
10°	4503.2
11°	3589.9
12°	2927.5
13°	2458.5
14°	2118.5
15°	1867.5
16°	1679.1
17°	1541.1
18°	1436.1
19°	1335.9
20°	1246.9
21°	1173.1
22°	1107.3
23°	1049.6
24°	999.1
25°	959.8
26°	930.1
27°	907.7
28°	886.0
29°	866.8
30°	847.6
32.5°	799.4
35°	655.9
37.5°	391.3
40°	129.1
42.5°	38.5
45°	27.3
47.5°	19.2
50°	8.8
52.5°	8.0
55°	6.4
57.5°	4.8
60°	3.2
62.5°	1.6
65°	1.6



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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°	1.6
117.5°	1.6
120°	3.2
122.5°	4.8
125°	6.4
127.5°	8.0
130°	8.8
132.5°	19.2
135°	27.3
137.5°	38.5
140°	129.1
142.5°	391.3
145°	655.9
147.5°	799.4
150°	847.6
151°	866.8
152°	886.0
153°	907.7
154°	930.1
155°	959.8
156°	999.1
157°	1049.6
158°	1107.3
159°	1173.1
160°	1246.9
161°	1335.9



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CANDELA DISTRIBUTION (continued):

	0°
162°	1436.1
163°	1541.1
164°	1679.1
165°	1867.5
166°	2118.5
167°	2458.5
168°	2927.5
169°	3589.9
170°	4503.2
171°	5647.4
172°	6988.9
173°	8321.6
174°	9679.9
175°	10937.2
176°	12026.1
177°	12881.6
178°	13507.1
179°	13910.4
180°	14104.5

(END OF REPORT)