

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: P221872

Luminaire Tested: **9004-W2-[RW, RI]-LED4080-M-BK-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221872
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29492)
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]-LED4080-M-BK-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, MEDIUM FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 4000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3820.7 lumens
Efficiency: N/A
Efficacy: 95.0 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

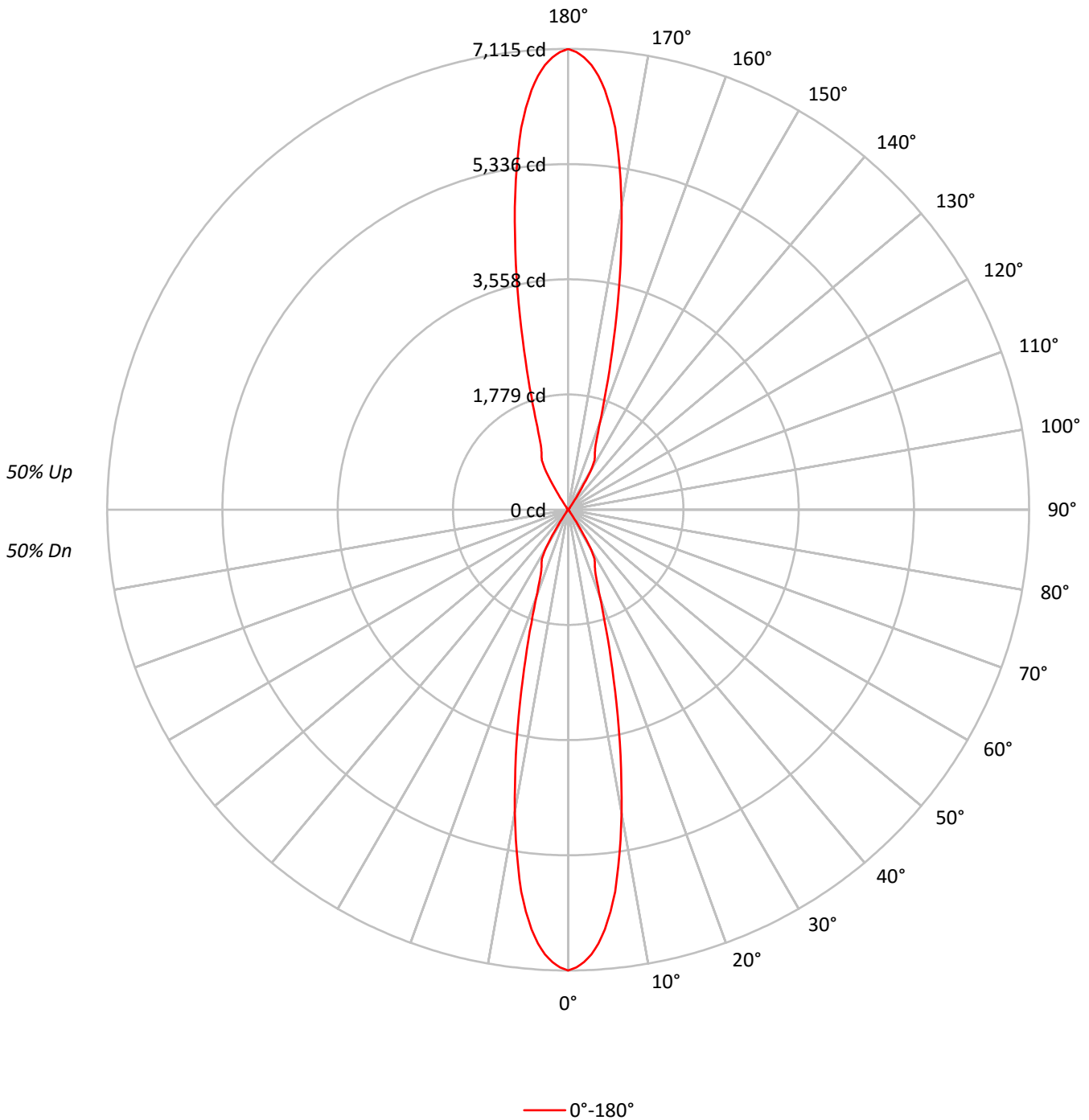
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	95	92	93	91	88	86	77	76	74		65	64	63		54	54	53	48
2	95	89	85	81	88	83	80	77	72	70	67		62	60	59		52	51	50	46
3	89	82	77	73	83	77	73	69	68	64	62		59	57	55		50	49	48	44
4	84	76	71	66	79	72	67	63	64	60	57		56	53	51		48	47	46	43
5	80	71	65	61	75	67	62	58	60	56	53		53	51	49		47	45	44	41
6	76	67	61	57	71	63	58	54	57	53	50		51	48	46		45	43	42	40
7	72	63	57	53	68	60	55	51	54	50	47		49	46	44		43	42	40	38
8	68	59	53	50	64	57	51	48	51	48	45		47	44	42		42	40	39	37
9	65	56	51	47	62	54	49	45	49	45	43		45	42	40		41	39	37	36
10	62	53	48	44	59	51	46	43	47	43	41		43	40	38		39	37	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	877616
5°	805181
10°	594078
15°	346748
20°	188045
25°	132885
30°	96309
35°	11971
40°	4106
45°	1622
50°	1036
55°	839
60°	567
65°	438
70°	289
75°	381
80°	568
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	563.8	14.8
10°-20°	756.2	19.8
20°-30°	458.7	12.0
30°-40°	117.4	3.1
40°-50°	8.4	0.2
50°-60°	3.4	0.1
60°-70°	1.5	0.0
70°-80°	0.8	0.0
80°-90°	0.1	0.0
90°-100°	0.1	0.0
100°-110°	0.8	0.0
110°-120°	1.5	0.0
120°-130°	3.4	0.1
130°-140°	8.4	0.2
140°-150°	117.4	3.1
150°-160°	458.7	12.0
160°-170°	756.2	19.8
170°-180°	563.8	14.8
0°-30°	1778.7	46.6
0°-40°	1896.1	49.6
0°-60°	1907.9	49.9
0°-90°	1910.3	50.0
90°-120°	2.5	0.1
90°-150°	131.7	3.4
90°-180°	1910.0	50.0
0°-180°	3820.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7115	
5°	6503	564
15°	2715	756
25°	976	459
35°	80	117
45°	9	8
55°	4	3
65°	2	2
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	2	2
125°	4	3
135°	9	8
145°	80	117
155°	976	459
165°	2715	756
175°	6503	564
180°	7115	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	7115.1
1°	7069.6
2°	6988.5
3°	6872.8
4°	6714.5
5°	6503.0
6°	6239.0
7°	5941.9
8°	5562.1
9°	5156.9
10°	4743.2
11°	4307.8
12°	3880.2
13°	3471.1
14°	3078.2
15°	2715.4
16°	2391.3
17°	2098.7
18°	1837.8
19°	1617.8
20°	1432.6
21°	1286.7
22°	1170.9
23°	1085.3
24°	1024.3
25°	976.4
26°	937.8
27°	904.6
28°	865.3
29°	793.5
30°	676.2
32.5°	321.9
35°	79.5
37.5°	43.2
40°	25.5
42.5°	11.6
45°	9.3
47.5°	7.7
50°	5.4
52.5°	4.6
55°	3.9
57.5°	3.1
60°	2.3
62.5°	2.3
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°	0.8
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°	0.8
102.5°	0.8
105°	0.8
107.5°	0.8
110°	0.8
112.5°	0.8
115°	1.5
117.5°	2.3
120°	2.3
122.5°	3.1
125°	3.9
127.5°	4.6
130°	5.4
132.5°	7.7
135°	9.3
137.5°	11.6
140°	25.5
142.5°	43.2
145°	79.5
147.5°	321.9
150°	676.2
151°	793.5
152°	865.3
153°	904.6
154°	937.8
155°	976.4
156°	1024.3
157°	1085.3
158°	1170.9
159°	1286.7
160°	1432.6
161°	1617.8



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CANDELA DISTRIBUTION (continued):

	0°
162°	1837.8
163°	2098.7
164°	2391.3
165°	2715.4
166°	3078.2
167°	3471.1
168°	3880.2
169°	4307.8
170°	4743.2
171°	5156.9
172°	5562.1
173°	5941.9
174°	6239.0
175°	6503.0
176°	6714.5
177°	6872.8
178°	6988.5
179°	7069.6
180°	7115.1

(END OF REPORT)