

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: P221887

Luminaire Tested: **9004-W2-[RW, RI]-LED4080-W-WT-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221887
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29490)
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-W-WT-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, WIDE FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 4000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4010.2 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.84 / 0.83
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

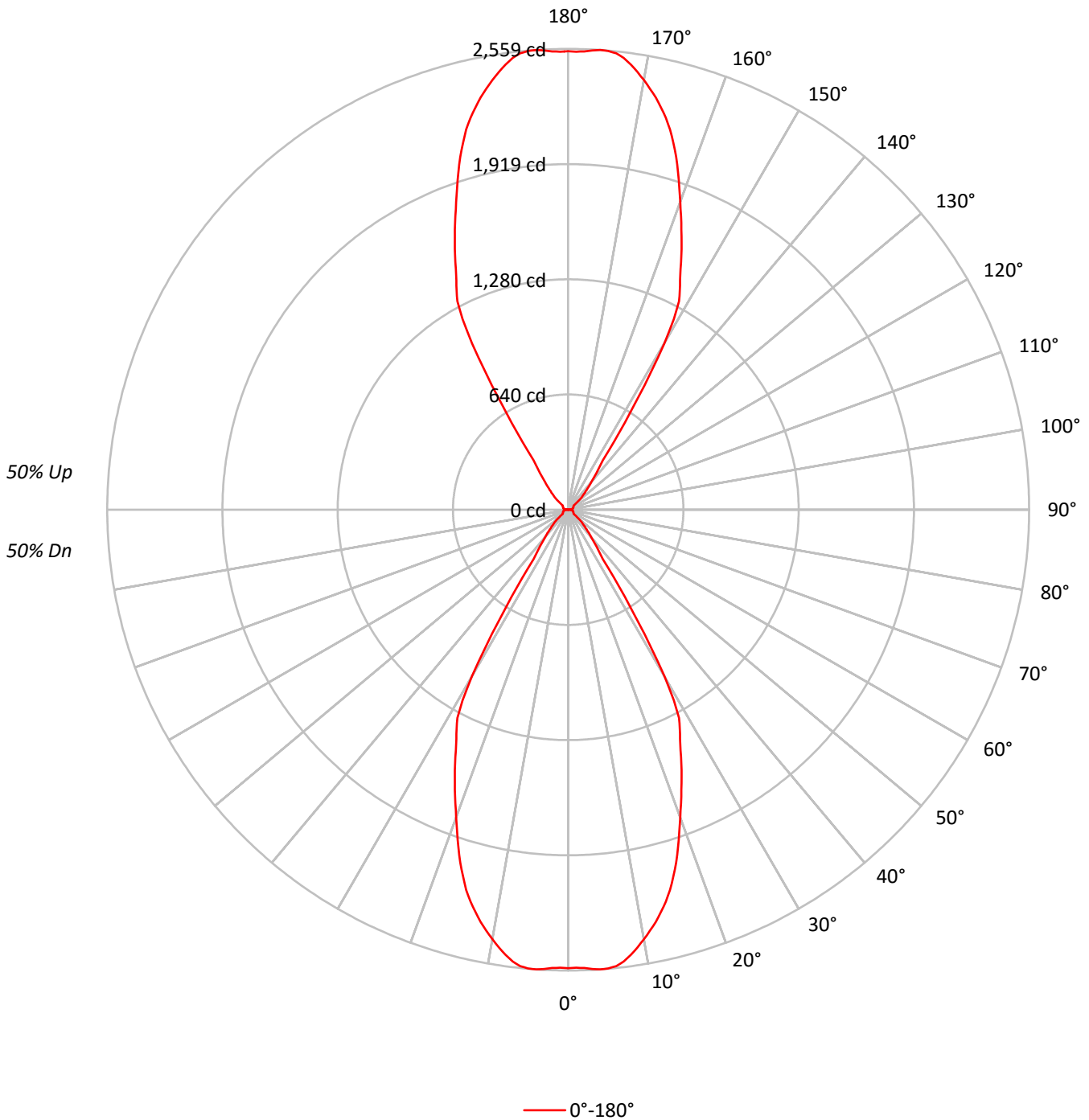
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	100	96	93	90	92	89	87	84	76	74	73	64	63	62	53	52	51	46
2	93	87	82	78	86	81	77	73	70	67	64	59	57	56	50	48	47	43
3	87	79	73	69	80	74	69	65	64	61	58	55	53	51	47	45	44	40
4	81	72	66	61	75	68	62	58	59	55	52	51	49	46	44	42	41	37
5	76	67	60	55	71	63	57	53	55	51	48	48	45	43	42	40	38	35
6	71	61	55	50	66	58	52	48	51	47	44	45	42	39	39	37	35	33
7	67	57	50	46	63	54	48	44	48	43	40	42	39	37	37	35	33	31
8	63	53	46	42	59	50	44	40	45	40	37	40	37	34	35	33	31	29
9	60	49	43	39	56	47	41	37	42	38	35	38	34	32	34	31	29	28
10	56	46	40	36	53	44	38	35	40	35	32	36	32	30	32	30	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	314087
5°	316624
10°	303364
15°	279132
20°	238607
25°	200852
30°	151827
35°	50443
40°	32058
45°	21805
50°	12742
55°	7634
60°	8388
65°	9223
70°	10567
75°	12867
80°	15343
85°	15285



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.7	6.0
10°-20°	602.9	15.0
20°-30°	675.3	16.8
30°-40°	282.4	7.0
40°-50°	98.0	2.4
50°-60°	35.6	0.9
60°-70°	31.4	0.8
70°-80°	27.9	0.7
80°-90°	11.8	0.3
90°-100°	11.8	0.3
100°-110°	27.9	0.7
110°-120°	31.4	0.8
120°-130°	35.6	0.9
130°-140°	98.0	2.4
140°-150°	282.4	7.0
150°-160°	675.3	16.8
160°-170°	602.9	15.0
170°-180°	239.7	6.0
0°-30°	1517.9	37.9
0°-40°	1800.3	44.9
0°-60°	1934.0	48.2
0°-90°	2005.1	50.0
90°-120°	71.1	1.8
90°-150°	487.2	12.1
90°-180°	2005.0	50.0
0°-180°	4010.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2546	
5°	2557	240
15°	2186	603
25°	1476	675
35°	335	282
45°	125	98
55°	36	36
65°	32	31
75°	27	28
85°	11	11
90°	0	1
95°	11	11
105°	27	28
115°	32	31
125°	36	36
135°	125	98
145°	335	282
155°	1476	675
165°	2186	603
175°	2557	240
180°	2546	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2546.4
1°	2544.1
2°	2546.4
3°	2554.1
4°	2558.8
5°	2557.2
6°	2548.0
7°	2527.9
8°	2496.2
9°	2460.7
10°	2422.1
11°	2381.2
12°	2339.5
13°	2292.5
14°	2242.3
15°	2185.9
16°	2118.8
17°	2048.6
18°	1972.9
19°	1894.2
20°	1817.8
21°	1746.7
22°	1678.1
23°	1610.1
24°	1543.7
25°	1475.8
26°	1416.4
27°	1363.9
28°	1309.9
29°	1211.1
30°	1066.0
32.5°	639.1
35°	335.0
37.5°	256.3
40°	199.1
42.5°	155.1
45°	125.0
47.5°	100.3
50°	66.4
52.5°	39.4
55°	35.5
57.5°	34.7
60°	34.0
62.5°	33.2
65°	31.6



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	30.1
70°	29.3
72.5°	28.6
75°	27.0
77.5°	24.7
80°	21.6
82.5°	17.0
85°	10.8
87.5°	4.6
90°	0.0
92.5°	4.6
95°	10.8
97.5°	17.0
100°	21.6
102.5°	24.7
105°	27.0
107.5°	28.6
110°	29.3
112.5°	30.1
115°	31.6
117.5°	33.2
120°	34.0
122.5°	34.7
125°	35.5
127.5°	39.4
130°	66.4
132.5°	100.3
135°	125.0
137.5°	155.1
140°	199.1
142.5°	256.3
145°	335.0
147.5°	639.1
150°	1066.0
151°	1211.1
152°	1309.9
153°	1363.9
154°	1416.4
155°	1475.8
156°	1543.7
157°	1610.1
158°	1678.1
159°	1746.7
160°	1817.8
161°	1894.2



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CANDELA DISTRIBUTION (continued):

	0°
162°	1972.9
163°	2048.6
164°	2118.8
165°	2185.9
166°	2242.3
167°	2292.5
168°	2339.5
169°	2381.2
170°	2422.1
171°	2460.7
172°	2496.2
173°	2527.9
174°	2548.0
175°	2557.2
176°	2558.8
177°	2554.1
178°	2546.4
179°	2544.1
180°	2546.4

(END OF REPORT)