

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: P221920

Luminaire Tested: **9004-W2-[RW, RI]-LED5080-M-BK-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221920
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]-LED5080-M-BK-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED 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: 3968.9 lumens
Efficiency: N/A
Efficacy: 98.7 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

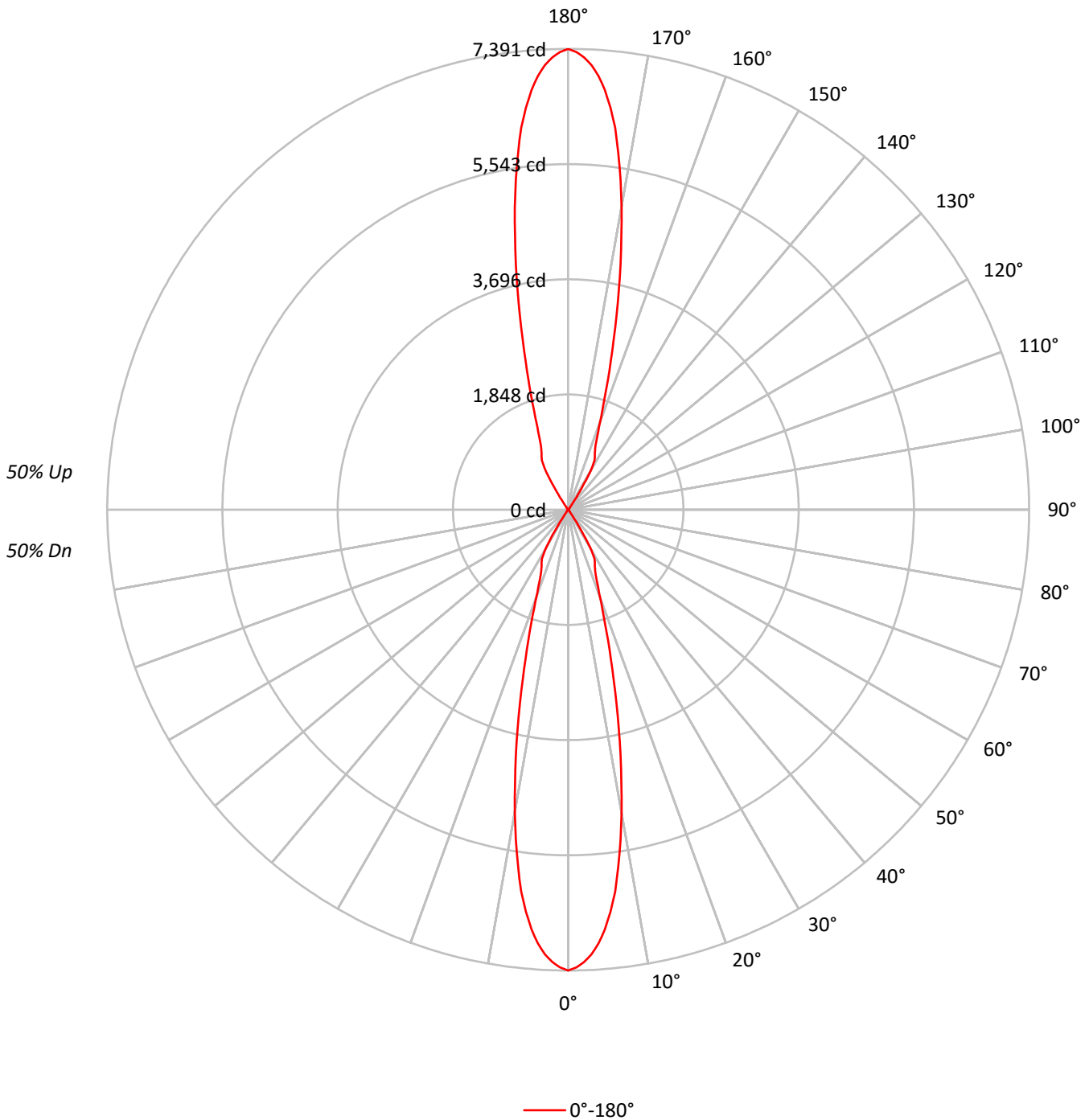
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	911697
5°	836457
10°	617149
15°	360220
20°	195344
25°	138043
30°	100041
35°	12438
40°	4267
45°	1675
50°	1075
55°	860
60°	592
65°	467
70°	289
75°	381
80°	568
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	585.7	14.8
10°-20°	785.5	19.8
20°-30°	476.5	12.0
30°-40°	121.9	3.1
40°-50°	8.7	0.2
50°-60°	3.6	0.1
60°-70°	1.6	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°	1.6	0.0
120°-130°	3.6	0.1
130°-140°	8.7	0.2
140°-150°	121.9	3.1
150°-160°	476.5	12.0
160°-170°	785.5	19.8
170°-180°	585.7	14.8
0°-30°	1847.8	46.6
0°-40°	1969.7	49.6
0°-60°	1981.9	49.9
0°-90°	1984.5	50.0
90°-120°	2.5	0.1
90°-150°	136.7	3.4
90°-180°	1984.0	50.0
0°-180°	3968.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7391	
5°	6756	586
15°	2821	786
25°	1014	477
35°	83	122
45°	10	9
55°	4	4
65°	2	2
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	2	2
125°	4	4
135°	10	9
145°	83	122
155°	1014	477
165°	2821	786
175°	6756	586
180°	7391	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	7391.4
1°	7344.1
2°	7259.9
3°	7139.6
4°	6975.3
5°	6755.6
6°	6481.3
7°	6172.6
8°	5778.1
9°	5357.1
10°	4927.4
11°	4475.1
12°	4030.9
13°	3605.9
14°	3197.8
15°	2820.9
16°	2484.1
17°	2180.2
18°	1909.2
19°	1680.7
20°	1488.2
21°	1336.7
22°	1216.4
23°	1127.4
24°	1064.1
25°	1014.3
26°	974.2
27°	939.8
28°	898.9
29°	824.3
30°	702.4
32.5°	334.4
35°	82.6
37.5°	44.9
40°	26.5
42.5°	12.0
45°	9.6
47.5°	8.0
50°	5.6
52.5°	4.8
55°	4.0
57.5°	3.2
60°	2.4
62.5°	2.4
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°	0.8
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°	1.6
117.5°	2.4
120°	2.4
122.5°	3.2
125°	4.0
127.5°	4.8
130°	5.6
132.5°	8.0
135°	9.6
137.5°	12.0
140°	26.5
142.5°	44.9
145°	82.6
147.5°	334.4
150°	702.4
151°	824.3
152°	898.9
153°	939.8
154°	974.2
155°	1014.3
156°	1064.1
157°	1127.4
158°	1216.4
159°	1336.7
160°	1488.2
161°	1680.7



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CANDELA DISTRIBUTION (continued):

	0°
162°	1909.2
163°	2180.2
164°	2484.1
165°	2820.9
166°	3197.8
167°	3605.9
168°	4030.9
169°	4475.1
170°	4927.4
171°	5357.1
172°	5778.1
173°	6172.6
174°	6481.3
175°	6755.6
176°	6975.3
177°	7139.6
178°	7259.9
179°	7344.1
180°	7391.4

(END OF REPORT)