

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: P221931

Luminaire Tested: **9004-W2-[RW, RI]-LED5080-W-BK-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221931  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29494)  
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-W-BK-L1-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, WIDE FLOOD OPTIC, BLACK HOUSING.  
Light Source: (1) 5000K CCT, 80 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2073.1 lumens  
Efficiency: N/A  
Efficacy: 105.2 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.83  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: General Diffuse

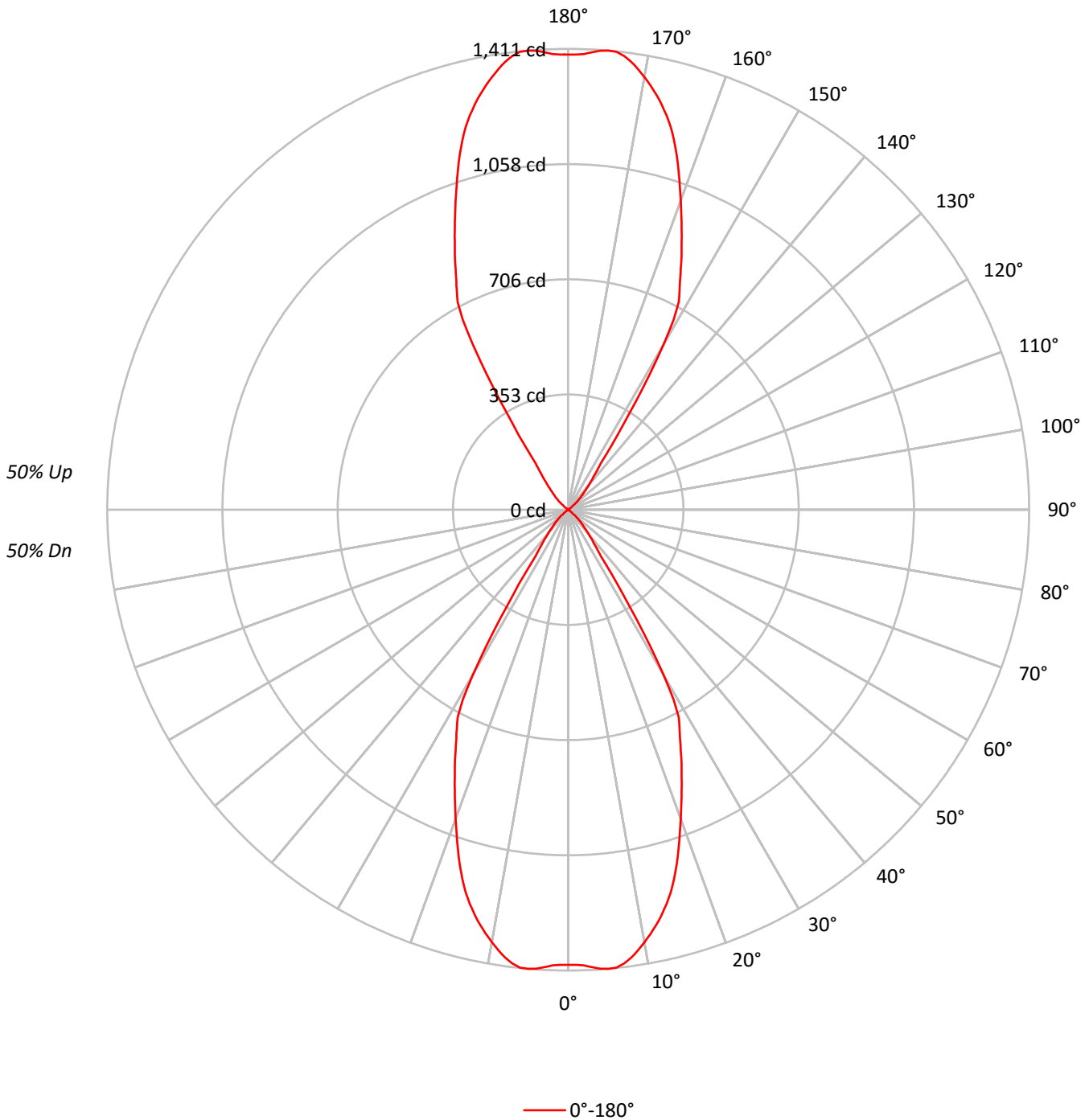
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	97	94	91	93	90	87	85	77	75	74	65	64	63	53	53	52	47
2	94	88	83	79	87	82	78	75	71	68	66	60	59	57	51	50	49	44
3	88	80	75	70	81	75	70	67	65	62	59	56	54	52	48	47	45	42
4	82	74	68	63	76	69	64	60	61	57	54	53	50	48	46	44	42	39
5	77	68	62	57	72	64	58	54	57	52	49	50	47	44	43	41	40	37
6	72	63	56	52	68	59	54	50	53	49	45	47	44	41	41	39	37	35
7	68	58	52	47	64	55	50	46	49	45	42	44	41	38	39	37	35	33
8	64	54	48	44	60	52	46	42	46	42	39	41	38	36	37	35	33	31
9	61	51	45	40	57	48	43	39	44	39	36	39	36	34	35	33	31	29
10	58	48	42	38	54	45	40	36	41	37	34	37	34	32	33	31	29	28

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	171944
5°	174755
10°	168447
15°	154832
20°	132194
25°	111055
30°	83135
35°	26095
40°	15458
45°	9402
50°	3915
55°	645
60°	419
65°	263
70°	144
75°	191
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.6	6.4
10°-20°	334.4	16.1
20°-30°	372.5	18.0
30°-40°	148.6	7.2
40°-50°	42.5	2.0
50°-60°	4.7	0.2
60°-70°	0.9	0.0
70°-80°	0.4	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.4	0.0
110°-120°	0.9	0.0
120°-130°	4.7	0.2
130°-140°	42.5	2.0
140°-150°	148.6	7.2
150°-160°	372.5	18.0
160°-170°	334.4	16.1
170°-180°	132.6	6.4
0°-30°	839.5	40.5
0°-40°	988.1	47.7
0°-60°	1035.3	49.9
0°-90°	1036.6	50.0
90°-120°	1.3	0.1
90°-150°	197.1	9.5
90°-180°	1037.0	50.0
0°-180°	2073.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1394	
5°	1411	133
15°	1212	334
25°	816	372
35°	173	149
45°	54	42
55°	3	5
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	1	1
125°	3	5
135°	54	42
145°	173	149
155°	816	372
165°	1212	334
175°	1411	133
180°	1394	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1394.0
1°	1393.6
2°	1396.2
3°	1402.7
4°	1408.8
5°	1411.4
6°	1409.7
7°	1400.5
8°	1384.9
9°	1365.8
10°	1344.9
11°	1322.4
12°	1298.9
13°	1272.9
14°	1244.2
15°	1212.5
16°	1175.6
17°	1136.1
18°	1093.1
19°	1049.2
20°	1007.1
21°	966.3
22°	927.2
23°	889.0
24°	852.9
25°	816.0
26°	781.3
27°	751.3
28°	720.0
29°	664.9
30°	583.7
32.5°	341.3
35°	173.3
37.5°	128.1
40°	96.0
42.5°	71.2
45°	53.9
47.5°	40.0
50°	20.4
52.5°	5.2
55°	3.0
57.5°	2.2
60°	1.7
62.5°	1.3
65°	0.9



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	0.4
70°	0.4
72.5°	0.4
75°	0.4
77.5°	0.4
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°	0.4
105°	0.4
107.5°	0.4
110°	0.4
112.5°	0.4
115°	0.9
117.5°	1.3
120°	1.7
122.5°	2.2
125°	3.0
127.5°	5.2
130°	20.4
132.5°	40.0
135°	53.9
137.5°	71.2
140°	96.0
142.5°	128.1
145°	173.3
147.5°	341.3
150°	583.7
151°	664.9
152°	720.0
153°	751.3
154°	781.3
155°	816.0
156°	852.9
157°	889.0
158°	927.2
159°	966.3
160°	1007.1
161°	1049.2



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**CANDELA DISTRIBUTION (continued):**

	0°
162°	1093.1
163°	1136.1
164°	1175.6
165°	1212.5
166°	1244.2
167°	1272.9
168°	1298.9
169°	1322.4
170°	1344.9
171°	1365.8
172°	1384.9
173°	1400.5
174°	1409.7
175°	1411.4
176°	1408.8
177°	1402.7
178°	1396.2
179°	1393.6
180°	1394.0

(END OF REPORT)