

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: P221799

Luminaire Tested: **9004-W2-[RW, RI]-LED3097-M-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221799
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]-LED3097-M-BK-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, MEDIUM FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1460.6 lumens
Efficiency: N/A
Efficacy: 74.1 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

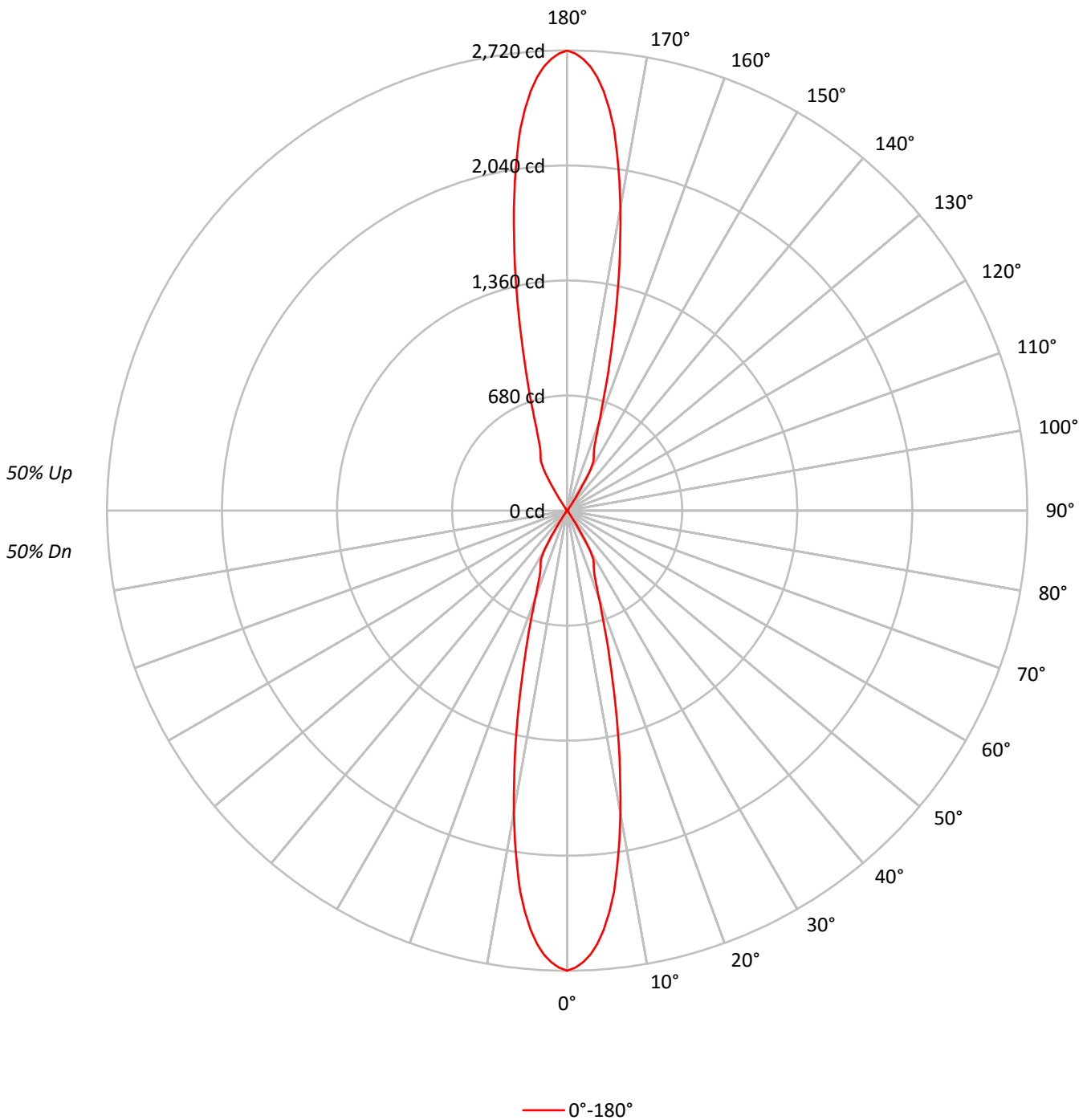
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	335488
5°	307809
10°	227100
15°	132562
20°	71879
25°	50805
30°	36817
35°	4578
40°	1562
45°	611
50°	403
55°	323
60°	222
65°	175
70°	108
75°	143
80°	213
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.5	14.8
10°-20°	289.1	19.8
20°-30°	175.4	12.0
30°-40°	44.9	3.1
40°-50°	3.2	0.2
50°-60°	1.3	0.1
60°-70°	0.6	0.0
70°-80°	0.3	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.3	0.0
110°-120°	0.6	0.0
120°-130°	1.3	0.1
130°-140°	3.2	0.2
140°-150°	44.9	3.1
150°-160°	175.4	12.0
160°-170°	289.1	19.8
170°-180°	215.5	14.8
0°-30°	680.0	46.6
0°-40°	724.8	49.6
0°-60°	729.3	49.9
0°-90°	730.3	50.0
90°-120°	0.9	0.1
90°-150°	50.3	3.4
90°-180°	730.0	50.0
0°-180°	1460.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2720	
5°	2486	216
15°	1038	289
25°	373	175
35°	30	45
45°	4	3
55°	2	1
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	1	1
125°	2	1
135°	4	3
145°	30	45
155°	373	175
165°	1038	289
175°	2486	216
180°	2720	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2719.9
1°	2702.5
2°	2671.6
3°	2627.3
4°	2566.8
5°	2486.0
6°	2385.0
7°	2271.4
8°	2126.3
9°	1971.4
10°	1813.2
11°	1646.8
12°	1483.3
13°	1326.9
14°	1176.7
15°	1038.1
16°	914.1
17°	802.3
18°	702.6
19°	618.5
20°	547.6
21°	491.9
22°	447.6
23°	414.9
24°	391.6
25°	373.3
26°	358.5
27°	345.8
28°	330.8
29°	303.3
30°	258.5
32.5°	123.0
35°	30.4
37.5°	16.5
40°	9.7
42.5°	4.4
45°	3.5
47.5°	3.0
50°	2.1
52.5°	1.8
55°	1.5
57.5°	1.2
60°	0.9
62.5°	0.9
65°	0.6



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.3
70°	0.3
72.5°	0.3
75°	0.3
77.5°	0.3
80°	0.3
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°	0.3
102.5°	0.3
105°	0.3
107.5°	0.3
110°	0.3
112.5°	0.3
115°	0.6
117.5°	0.9
120°	0.9
122.5°	1.2
125°	1.5
127.5°	1.8
130°	2.1
132.5°	3.0
135°	3.5
137.5°	4.4
140°	9.7
142.5°	16.5
145°	30.4
147.5°	123.0
150°	258.5
151°	303.3
152°	330.8
153°	345.8
154°	358.5
155°	373.3
156°	391.6
157°	414.9
158°	447.6
159°	491.9
160°	547.6
161°	618.5



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CANDELA DISTRIBUTION (continued):

	0°
162°	702.6
163°	802.3
164°	914.1
165°	1038.1
166°	1176.7
167°	1326.9
168°	1483.3
169°	1646.8
170°	1813.2
171°	1971.4
172°	2126.3
173°	2271.4
174°	2385.0
175°	2486.0
176°	2566.8
177°	2627.3
178°	2671.6
179°	2702.5
180°	2719.9

(END OF REPORT)