

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: P222027

Luminaire Tested: **9004-W2-FL-LED3090-W-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222027
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29499)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9004-W2-FL-LED3090-W-BK-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, WIDE FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3000K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1861.7 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

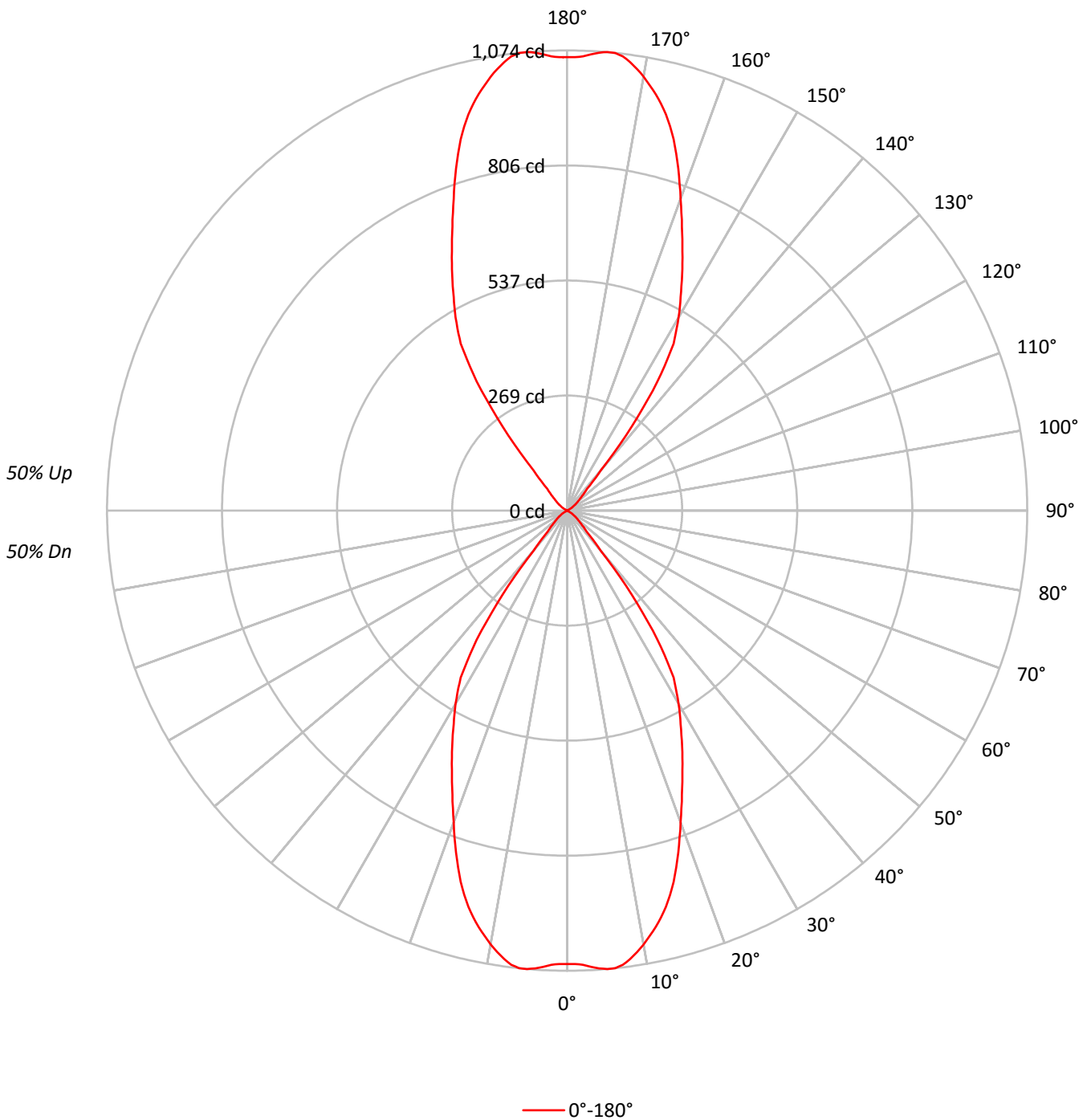
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	92	90	87	85	76	75	73		64	63	62		53	53	52	47
2	93	88	83	79	86	81	77	74	70	67	65		60	58	56		50	49	48	43
3	87	80	74	69	81	74	69	65	65	61	58		56	53	51		47	46	44	40
4	81	73	66	61	76	68	63	58	60	56	52		52	49	47		44	42	41	38
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	43		45	42	39		39	37	35	33
7	67	57	50	45	62	54	48	44	48	43	40		42	39	36		37	35	33	31
8	63	52	46	41	59	50	44	40	45	40	37		40	36	34		35	33	31	29
9	59	49	42	38	56	46	41	37	42	37	34		37	34	31		33	31	29	27
10	56	46	39	35	52	43	38	34	39	35	32		35	32	29		31	29	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	130574
5°	133016
10°	128780
15°	118605
20°	101636
25°	86680
30°	74133
35°	55412
40°	19660
45°	9193
50°	6083
55°	4086
60°	2048
65°	496
70°	361
75°	334
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.1	5.4
10°-20°	256.4	13.8
20°-30°	292.6	15.7
30°-40°	214.8	11.5
40°-50°	45.6	2.4
50°-60°	17.2	0.9
60°-70°	2.4	0.1
70°-80°	0.7	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.7	0.0
110°-120°	2.4	0.1
120°-130°	17.2	0.9
130°-140°	45.6	2.4
140°-150°	214.8	11.5
150°-160°	292.6	15.7
160°-170°	256.4	13.8
170°-180°	101.1	5.4
0°-30°	650.1	34.9
0°-40°	864.9	46.5
0°-60°	927.7	49.8
0°-90°	930.8	50.0
90°-120°	3.1	0.2
90°-150°	280.8	15.1
90°-180°	931.0	50.0
0°-180°	1861.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1059	
5°	1074	101
15°	929	256
25°	637	293
35°	368	215
45°	53	46
55°	19	17
65°	2	2
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	2	2
125°	19	17
135°	53	46
145°	368	215
155°	637	293
165°	929	256
175°	1074	101
180°	1059	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1058.6
1°	1058.3
2°	1060.9
3°	1066.3
4°	1071.3
5°	1074.3
6°	1073.6
7°	1067.9
8°	1056.9
9°	1043.2
10°	1028.2
11°	1011.2
12°	993.9
13°	974.2
14°	952.8
15°	928.8
16°	901.4
17°	871.1
18°	839.7
19°	806.7
20°	774.3
21°	744.3
22°	715.3
23°	687.9
24°	661.9
25°	636.9
26°	612.5
27°	587.8
28°	564.2
29°	542.1
30°	520.5
32.5°	462.1
35°	368.0
37.5°	248.5
40°	122.1
42.5°	68.7
45°	52.7
47.5°	41.4
50°	31.7
52.5°	25.0
55°	19.0
57.5°	13.7
60°	8.3
62.5°	2.3
65°	1.7



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	1.3
70°	1.0
72.5°	1.0
75°	0.7
77.5°	0.3
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°	0.3
105°	0.7
107.5°	1.0
110°	1.0
112.5°	1.3
115°	1.7
117.5°	2.3
120°	8.3
122.5°	13.7
125°	19.0
127.5°	25.0
130°	31.7
132.5°	41.4
135°	52.7
137.5°	68.7
140°	122.1
142.5°	248.5
145°	368.0
147.5°	462.1
150°	520.5
151°	542.1
152°	564.2
153°	587.8
154°	612.5
155°	636.9
156°	661.9
157°	687.9
158°	715.3
159°	744.3
160°	774.3
161°	806.7



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CANDELA DISTRIBUTION (continued):

	0°
162°	839.7
163°	871.1
164°	901.4
165°	928.8
166°	952.8
167°	974.2
168°	993.9
169°	1011.2
170°	1028.2
171°	1043.2
172°	1056.9
173°	1067.9
174°	1073.6
175°	1074.3
176°	1071.3
177°	1066.3
178°	1060.9
179°	1058.3
180°	1058.6

(END OF REPORT)