

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: P222147

Luminaire Tested: **9004-W2-FL-LED4097-W-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222147
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-LED4097-W-BK-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, WIDE FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 4000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1849.7 lumens
Efficiency: N/A
Efficacy: 93.9 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

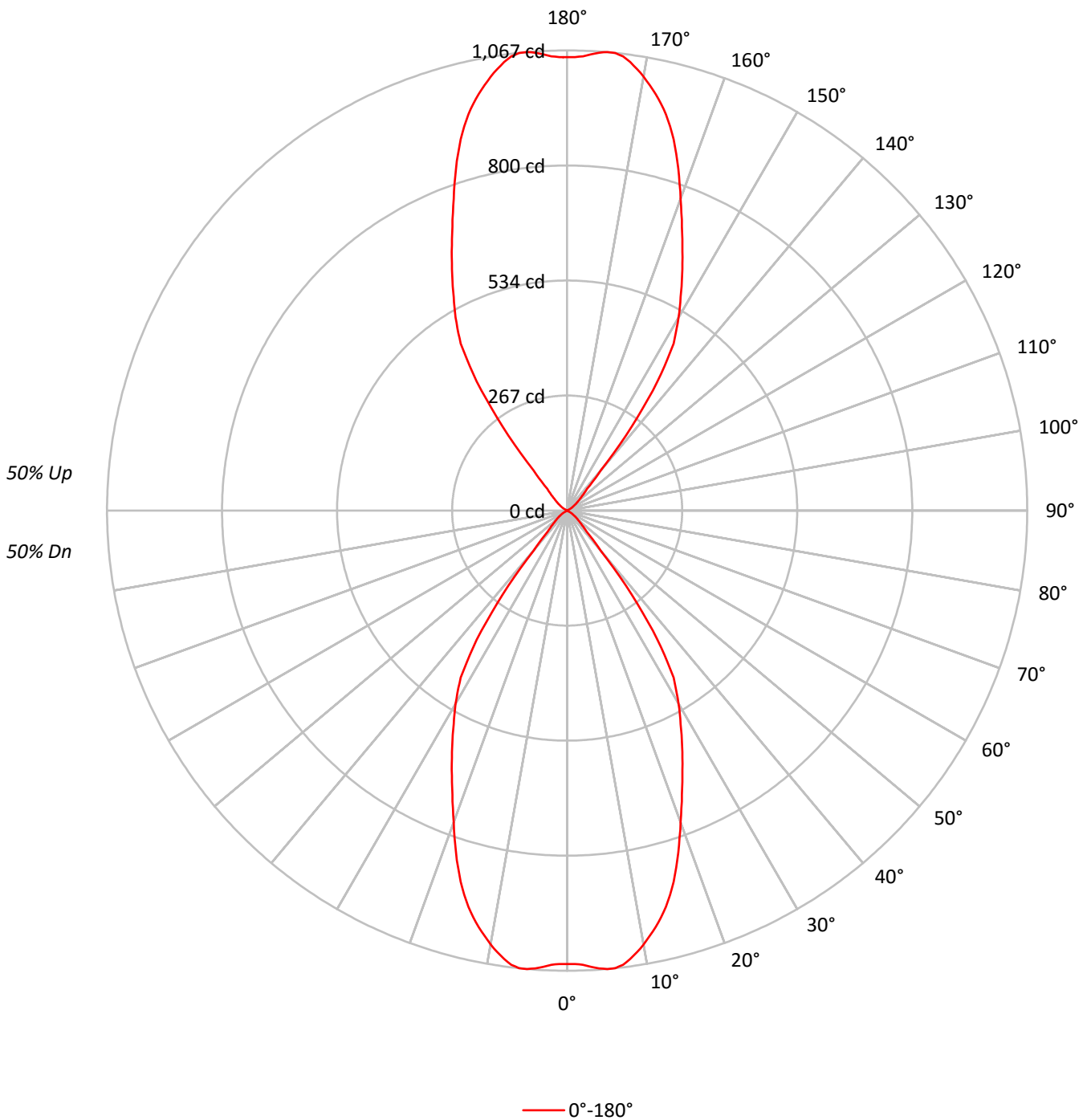
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	43	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°	129723
5°	132150
10°	127954
15°	117839
20°	100980
25°	86122
30°	73649
35°	55051
40°	19531
45°	9141
50°	6045
55°	4064
60°	2048
65°	496
70°	361
75°	334
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.4	5.4
10°-20°	254.7	13.8
20°-30°	290.7	15.7
30°-40°	213.4	11.5
40°-50°	45.3	2.4
50°-60°	17.1	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°	17.1	0.9
130°-140°	45.3	2.4
140°-150°	213.4	11.5
150°-160°	290.7	15.7
160°-170°	254.7	13.8
170°-180°	100.4	5.4
0°-30°	645.9	34.9
0°-40°	859.3	46.5
0°-60°	921.8	49.8
0°-90°	924.9	50.0
90°-120°	3.1	0.2
90°-150°	279.0	15.1
90°-180°	925.0	50.0
0°-180°	1849.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1052	
5°	1067	100
15°	923	255
25°	633	291
35°	366	213
45°	52	45
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°	52	45
145°	366	213
155°	633	291
165°	923	255
175°	1067	100
180°	1052	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1051.7
1°	1051.4
2°	1054.1
3°	1059.4
4°	1064.3
5°	1067.3
6°	1066.7
7°	1061.0
8°	1050.1
9°	1036.5
10°	1021.6
11°	1004.7
12°	987.4
13°	967.9
14°	946.7
15°	922.8
16°	895.6
17°	865.5
18°	834.3
19°	801.5
20°	769.3
21°	739.5
22°	710.7
23°	683.5
24°	657.6
25°	632.8
26°	608.6
27°	584.0
28°	560.5
29°	538.6
30°	517.1
32.5°	459.1
35°	365.6
37.5°	246.9
40°	121.3
42.5°	68.3
45°	52.4
47.5°	41.1
50°	31.5
52.5°	24.9
55°	18.9
57.5°	13.6
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°	13.6
125°	18.9
127.5°	24.9
130°	31.5
132.5°	41.1
135°	52.4
137.5°	68.3
140°	121.3
142.5°	246.9
145°	365.6
147.5°	459.1
150°	517.1
151°	538.6
152°	560.5
153°	584.0
154°	608.6
155°	632.8
156°	657.6
157°	683.5
158°	710.7
159°	739.5
160°	769.3
161°	801.5



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CANDELA DISTRIBUTION (continued):

	0°
162°	834.3
163°	865.5
164°	895.6
165°	922.8
166°	946.7
167°	967.9
168°	987.4
169°	1004.7
170°	1021.6
171°	1036.5
172°	1050.1
173°	1061.0
174°	1066.7
175°	1067.3
176°	1064.3
177°	1059.4
178°	1054.1
179°	1051.4
180°	1051.7

(END OF REPORT)