

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: P222009

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222009
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29498)
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-F-BK-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3000K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1915.5 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.56
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

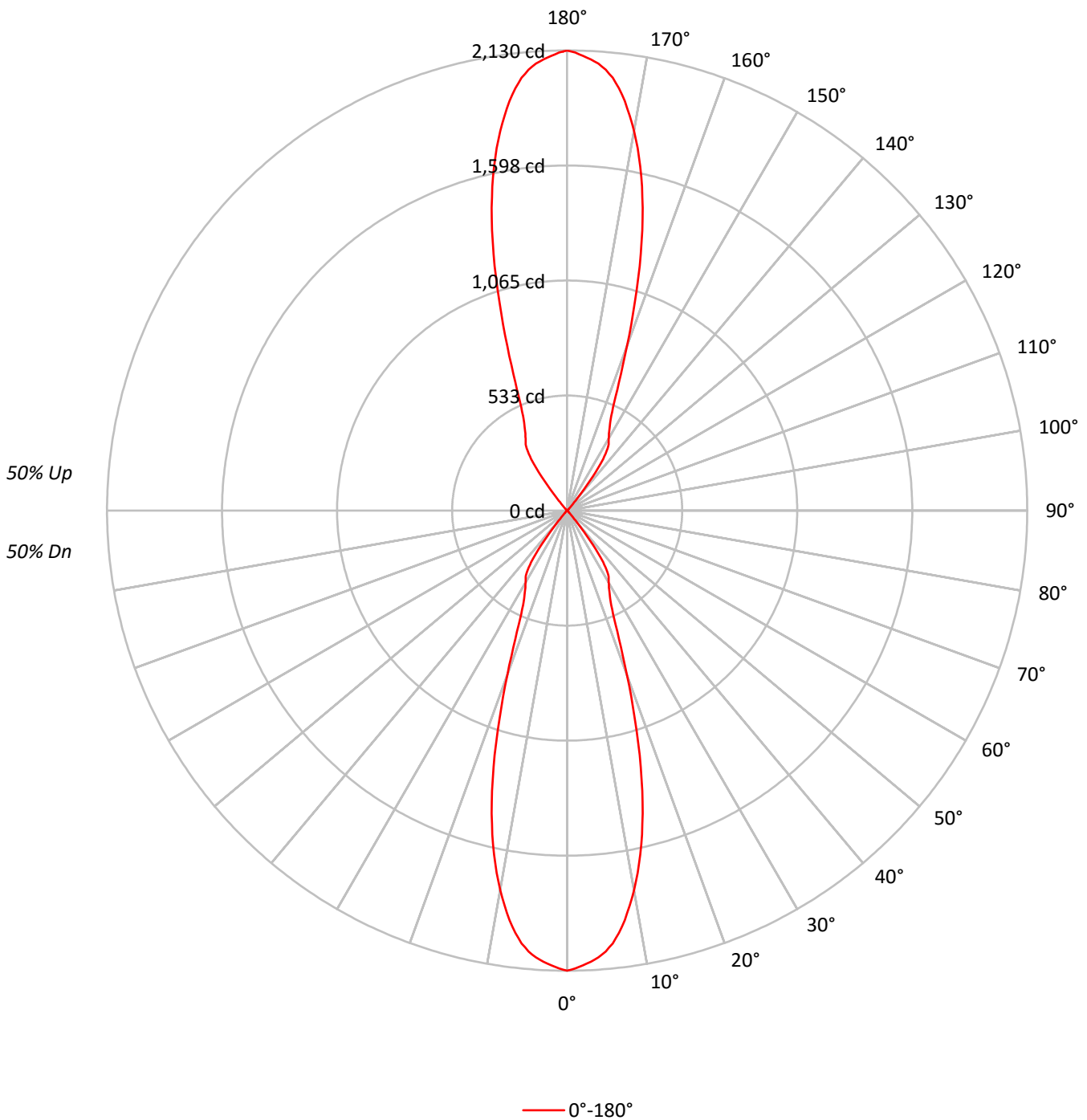
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	92	93	90	88	86	77	75	74		65	64	63		54	53	53	48
2	94	89	84	80	87	83	79	76	71	69	66		61	59	58		51	50	49	45
3	88	81	76	71	82	76	71	68	66	63	60		57	55	53		49	48	46	43
4	83	75	69	64	77	70	65	61	62	58	55		54	51	49		47	45	44	41
5	78	69	63	58	73	65	60	56	58	54	51		51	48	46		45	43	41	38
6	74	64	58	54	69	61	55	52	54	50	47		48	45	43		43	41	39	37
7	70	60	54	50	65	57	52	48	51	47	44		46	43	41		41	39	37	35
8	66	56	50	46	62	54	48	44	48	44	41		44	41	38		39	37	35	33
9	63	53	47	43	59	50	45	42	46	42	39		41	38	36		37	35	34	32
10	60	50	44	40	56	48	43	39	44	39	37		40	37	34		36	34	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	262665
5°	253676
10°	223343
15°	171561
20°	106112
25°	65748
30°	54792
35°	43863
40°	9564
45°	2041
50°	384
55°	215
60°	173
65°	88
70°	108
75°	143
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.1	9.8
10°-20°	360.3	18.8
20°-30°	236.6	12.4
30°-40°	159.6	8.3
40°-50°	12.6	0.7
50°-60°	0.9	0.0
60°-70°	0.4	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°	0.4	0.0
120°-130°	0.9	0.0
130°-140°	12.6	0.7
140°-150°	159.6	8.3
150°-160°	236.6	12.4
160°-170°	360.3	18.8
170°-180°	187.1	9.8
0°-30°	784.0	40.9
0°-40°	943.6	49.3
0°-60°	957.1	50.0
0°-90°	957.8	50.0
90°-120°	0.7	0.0
90°-150°	173.8	9.1
90°-180°	958.0	50.0
0°-180°	1915.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2130	
5°	2049	187
15°	1344	360
25°	483	237
35°	291	160
45°	12	13
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	0	0
125°	1	1
135°	12	13
145°	291	160
155°	483	237
165°	1344	360
175°	2049	187
180°	2130	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2129.5
1°	2120.2
2°	2106.5
3°	2091.5
4°	2073.8
5°	2048.8
6°	2014.4
7°	1969.7
8°	1914.7
9°	1850.9
10°	1783.2
11°	1708.8
12°	1627.7
13°	1539.3
14°	1445.3
15°	1343.5
16°	1236.4
17°	1125.6
18°	1014.9
19°	910.8
20°	808.4
21°	719.6
22°	639.9
23°	573.8
24°	522.8
25°	483.1
26°	454.4
27°	432.4
28°	413.7
29°	398.3
30°	384.7
32.5°	356.0
35°	291.3
37.5°	173.2
40°	59.4
42.5°	17.7
45°	11.7
47.5°	7.3
50°	2.0
52.5°	1.0
55°	1.0
57.5°	0.7
60°	0.7
62.5°	0.7
65°	0.3



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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°	0.0
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°	0.3
107.5°	0.3
110°	0.3
112.5°	0.3
115°	0.3
117.5°	0.7
120°	0.7
122.5°	0.7
125°	1.0
127.5°	1.0
130°	2.0
132.5°	7.3
135°	11.7
137.5°	17.7
140°	59.4
142.5°	173.2
145°	291.3
147.5°	356.0
150°	384.7
151°	398.3
152°	413.7
153°	432.4
154°	454.4
155°	483.1
156°	522.8
157°	573.8
158°	639.9
159°	719.6
160°	808.4
161°	910.8



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CANDELA DISTRIBUTION (continued):

	0°
162°	1014.9
163°	1125.6
164°	1236.4
165°	1343.5
166°	1445.3
167°	1539.3
168°	1627.7
169°	1708.8
170°	1783.2
171°	1850.9
172°	1914.7
173°	1969.7
174°	2014.4
175°	2048.8
176°	2073.8
177°	2091.5
178°	2106.5
179°	2120.2
180°	2129.5

(END OF REPORT)