

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: P221790

Luminaire Tested: **9004-W2-[RW, RI]-LED3090-W-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221790
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29490)
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]-LED3090-W-WT-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, WIDE FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 3000K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1733.3 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.84 / 0.83
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

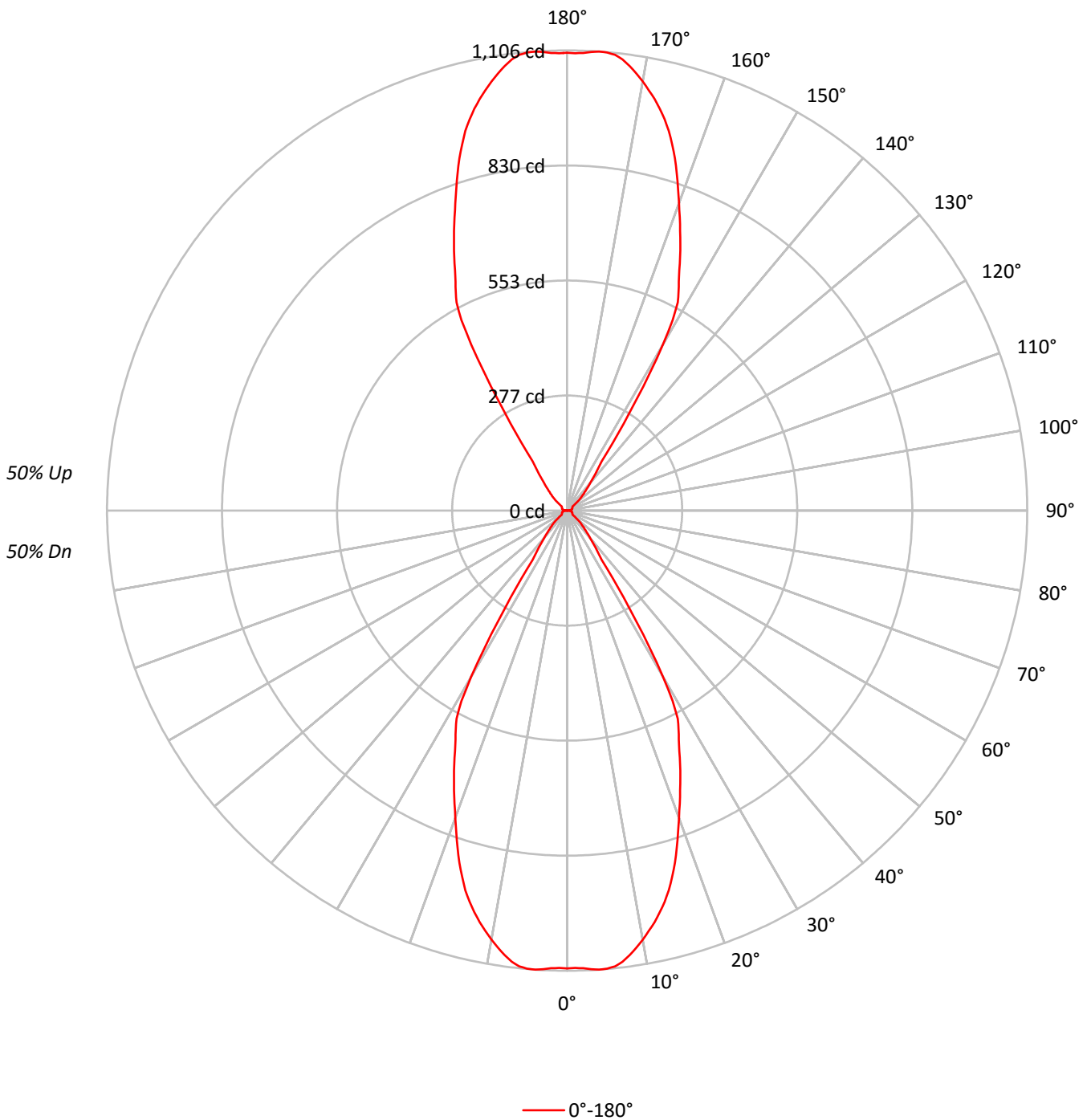
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	96	93	90	92	89	87	84	76	74	73	64	63	62	53	52	51	46
2	93	87	82	78	86	81	77	73	70	67	64	59	57	56	50	48	47	43
3	87	79	73	69	80	74	69	65	64	61	58	55	53	51	47	45	44	40
4	81	72	66	61	75	68	62	58	59	55	52	51	49	46	44	42	41	37
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	44	45	42	39	39	37	35	33
7	67	57	50	46	63	54	48	44	48	43	40	42	39	37	37	35	33	31
8	63	53	46	42	59	50	44	40	45	40	37	40	37	34	35	33	31	29
9	60	49	43	39	56	47	41	37	42	38	35	38	34	32	34	31	29	28
10	56	46	40	36	53	44	38	35	40	35	32	36	32	30	32	30	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	135754
5°	136855
10°	131123
15°	120648
20°	103132
25°	86816
30°	65616
35°	21804
40°	13864
45°	9420
50°	5507
55°	3290
60°	3626
65°	3998
70°	4580
75°	5576
80°	6606
85°	6652



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.6	6.0
10°-20°	260.6	15.0
20°-30°	291.9	16.8
30°-40°	122.1	7.0
40°-50°	42.4	2.4
50°-60°	15.4	0.9
60°-70°	13.6	0.8
70°-80°	12.1	0.7
80°-90°	5.1	0.3
90°-100°	5.1	0.3
100°-110°	12.1	0.7
110°-120°	13.6	0.8
120°-130°	15.4	0.9
130°-140°	42.4	2.4
140°-150°	122.1	7.0
150°-160°	291.9	16.8
160°-170°	260.6	15.0
170°-180°	103.6	6.0
0°-30°	656.1	37.9
0°-40°	778.1	44.9
0°-60°	835.9	48.2
0°-90°	866.6	50.0
90°-120°	30.7	1.8
90°-150°	210.6	12.1
90°-180°	867.0	50.0
0°-180°	1733.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1101	
5°	1105	104
15°	945	261
25°	638	292
35°	145	122
45°	54	42
55°	15	15
65°	14	14
75°	12	12
85°	5	5
90°	0	1
95°	5	5
105°	12	12
115°	14	14
125°	15	15
135°	54	42
145°	145	122
155°	638	292
165°	945	261
175°	1105	104
180°	1101	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1100.6
1°	1099.6
2°	1100.6
3°	1104.0
4°	1106.0
5°	1105.3
6°	1101.3
7°	1092.6
8°	1078.9
9°	1063.6
10°	1046.9
11°	1029.2
12°	1011.2
13°	990.9
14°	969.2
15°	944.8
16°	915.8
17°	885.4
18°	852.7
19°	818.7
20°	785.7
21°	755.0
22°	725.3
23°	695.9
24°	667.2
25°	637.9
26°	612.2
27°	589.5
28°	566.2
29°	523.5
30°	460.7
32.5°	276.2
35°	144.8
37.5°	110.8
40°	86.1
42.5°	67.1
45°	54.0
47.5°	43.4
50°	28.7
52.5°	17.0
55°	15.3
57.5°	15.0
60°	14.7
62.5°	14.3
65°	13.7



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	13.0
70°	12.7
72.5°	12.3
75°	11.7
77.5°	10.7
80°	9.3
82.5°	7.3
85°	4.7
87.5°	2.0
90°	0.0
92.5°	2.0
95°	4.7
97.5°	7.3
100°	9.3
102.5°	10.7
105°	11.7
107.5°	12.3
110°	12.7
112.5°	13.0
115°	13.7
117.5°	14.3
120°	14.7
122.5°	15.0
125°	15.3
127.5°	17.0
130°	28.7
132.5°	43.4
135°	54.0
137.5°	67.1
140°	86.1
142.5°	110.8
145°	144.8
147.5°	276.2
150°	460.7
151°	523.5
152°	566.2
153°	589.5
154°	612.2
155°	637.9
156°	667.2
157°	695.9
158°	725.3
159°	755.0
160°	785.7
161°	818.7



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CATALOG NUMBER: 9004-W2-[RW, RI]-LED3090-W-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

	0°
162°	852.7
163°	885.4
164°	915.8
165°	944.8
166°	969.2
167°	990.9
168°	1011.2
169°	1029.2
170°	1046.9
171°	1063.6
172°	1078.9
173°	1092.6
174°	1101.3
175°	1105.3
176°	1106.0
177°	1104.0
178°	1100.6
179°	1099.6
180°	1100.6

(END OF REPORT)