

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: P221724

Luminaire Tested: **9004-W2-[RW, RI]-LED2790-F-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221724
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29489)
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]-LED2790-F-WT-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 2700K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1702.4 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.57
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

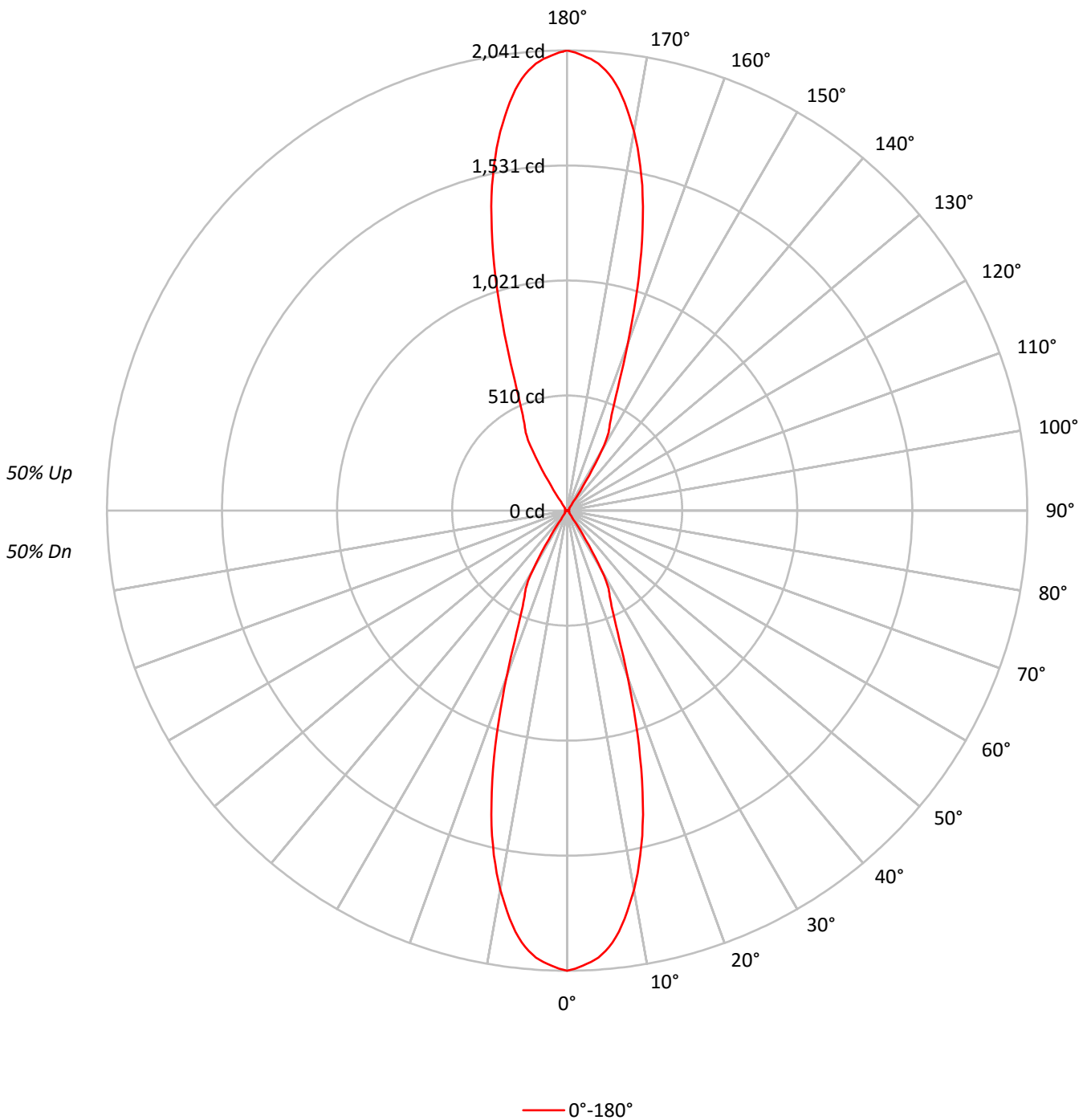
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	90	87	85	77	75	74	65	64	63	53	53	52	47
2	94	88	84	80	87	82	78	75	71	68	66	61	59	57	51	50	49	45
3	88	81	76	71	82	76	71	67	66	63	60	57	55	53	49	47	46	42
4	83	75	69	64	77	70	65	61	62	58	55	54	51	49	47	45	44	40
5	78	69	63	59	73	65	60	56	58	54	51	51	48	46	45	43	41	39
6	74	65	58	54	69	61	56	52	55	51	48	49	46	43	43	41	39	37
7	70	60	54	50	66	57	52	48	52	48	45	46	43	41	41	39	38	35
8	66	57	51	47	62	54	49	45	49	45	42	44	41	39	39	37	36	34
9	63	54	48	44	60	51	46	42	46	42	40	42	39	37	38	36	34	33
10	60	51	45	41	57	48	43	40	44	40	38	40	37	35	37	34	33	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	251736
5°	242730
10°	213749
15°	165048
20°	103040
25°	63435
30°	43483
35°	6836
40°	3092
45°	2093
50°	2188
55°	2366
60°	2640
65°	2948
70°	3426
75°	4194
80°	4901
85°	4953



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.0	10.5
10°-20°	347.1	20.4
20°-30°	224.7	13.2
30°-40°	57.8	3.4
40°-50°	9.9	0.6
50°-60°	10.0	0.6
60°-70°	10.0	0.6
70°-80°	9.0	0.5
80°-90°	3.8	0.2
90°-100°	3.8	0.2
100°-110°	9.0	0.5
110°-120°	10.0	0.6
120°-130°	10.0	0.6
130°-140°	9.9	0.6
140°-150°	57.8	3.4
150°-160°	224.7	13.2
160°-170°	347.1	20.4
170°-180°	179.0	10.5
0°-30°	750.8	44.1
0°-40°	808.6	47.5
0°-60°	828.4	48.7
0°-90°	851.2	50.0
90°-120°	22.8	1.3
90°-150°	100.4	5.9
90°-180°	851.0	50.0
0°-180°	1702.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2041	
5°	1960	179
15°	1292	347
25°	466	225
35°	45	58
45°	12	10
55°	11	10
65°	10	10
75°	9	9
85°	4	4
90°	0	0
95°	4	4
105°	9	9
115°	10	10
125°	11	10
135°	12	10
145°	45	58
155°	466	225
165°	1292	347
175°	1960	179
180°	2041	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2040.9
1°	2031.7
2°	2019.7
3°	2005.5
4°	1987.2
5°	1960.4
6°	1926.4
7°	1881.9
8°	1828.6
9°	1769.3
10°	1706.6
11°	1637.8
12°	1562.1
13°	1480.1
14°	1390.2
15°	1292.5
16°	1191.5
17°	1087.8
18°	983.7
19°	881.2
20°	785.0
21°	697.0
22°	620.4
23°	555.7
24°	504.9
25°	466.1
26°	435.5
27°	411.9
28°	392.0
29°	357.3
30°	305.3
32.5°	152.6
35°	45.4
37.5°	29.0
40°	19.2
42.5°	12.3
45°	12.0
47.5°	11.7
50°	11.4
52.5°	11.4
55°	11.0
57.5°	11.0
60°	10.7
62.5°	10.4
65°	10.1



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	9.8
70°	9.5
72.5°	9.1
75°	8.8
77.5°	7.9
80°	6.9
82.5°	5.4
85°	3.5
87.5°	1.6
90°	0.0
92.5°	1.6
95°	3.5
97.5°	5.4
100°	6.9
102.5°	7.9
105°	8.8
107.5°	9.1
110°	9.5
112.5°	9.8
115°	10.1
117.5°	10.4
120°	10.7
122.5°	11.0
125°	11.0
127.5°	11.4
130°	11.4
132.5°	11.7
135°	12.0
137.5°	12.3
140°	19.2
142.5°	29.0
145°	45.4
147.5°	152.6
150°	305.3
151°	357.3
152°	392.0
153°	411.9
154°	435.5
155°	466.1
156°	504.9
157°	555.7
158°	620.4
159°	697.0
160°	785.0
161°	881.2



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CANDELA DISTRIBUTION (continued):

	0°
162°	983.7
163°	1087.8
164°	1191.5
165°	1292.5
166°	1390.2
167°	1480.1
168°	1562.1
169°	1637.8
170°	1706.6
171°	1769.3
172°	1828.6
173°	1881.9
174°	1926.4
175°	1960.4
176°	1987.2
177°	2005.5
178°	2019.7
179°	2031.7
180°	2040.9

(END OF REPORT)