

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: P221868

Luminaire Tested: **9004-W2-[RW, RI]-LED4080-F-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221868
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]-LED4080-F-WT-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 4000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2256.5 lumens
Efficiency: N/A
Efficacy: 114.5 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

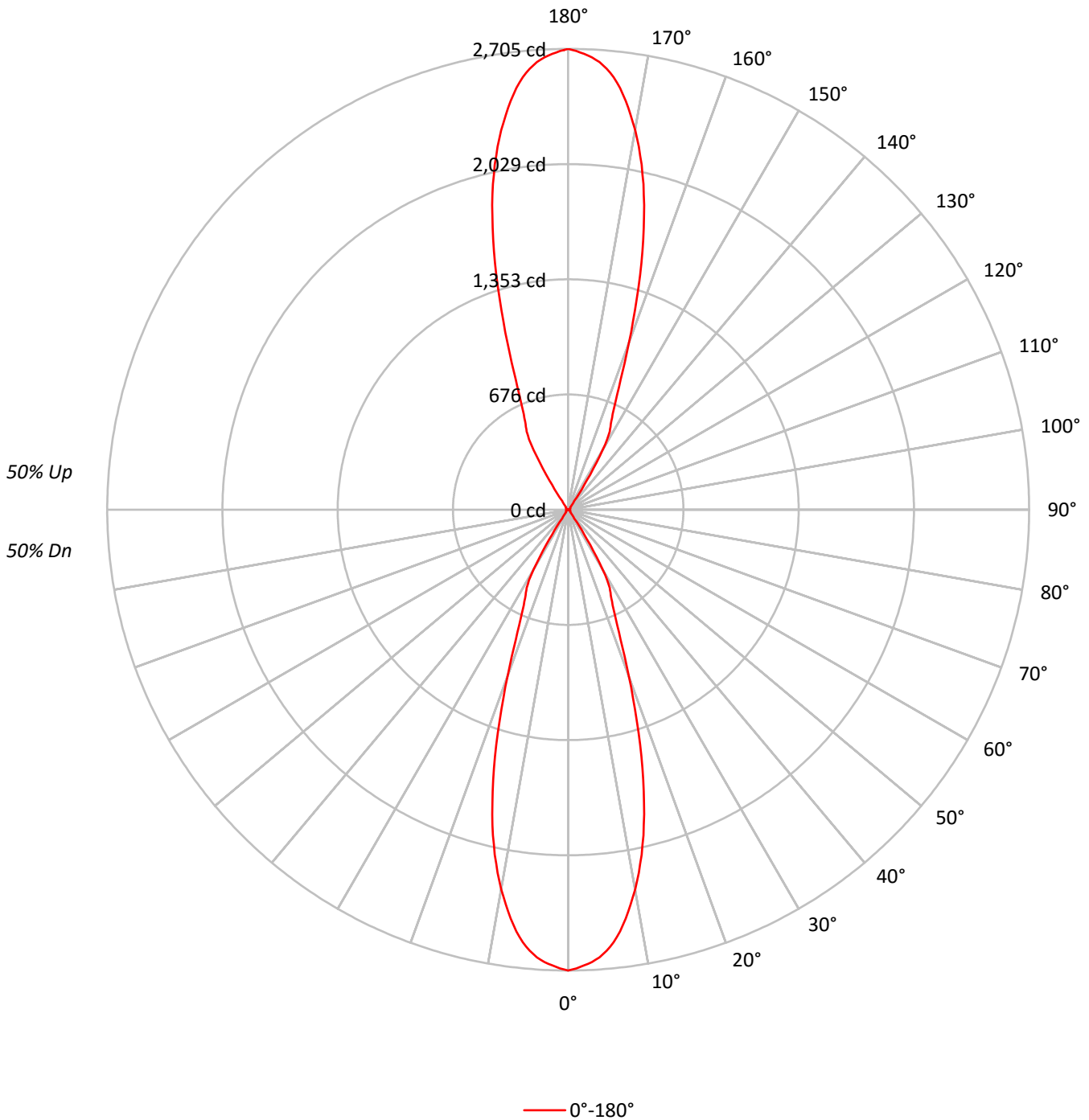
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	333662
5°	321738
10°	283312
15°	218757
20°	136578
25°	84094
30°	57640
35°	9065
40°	4106
45°	2774
50°	2878
55°	3140
60°	3503
65°	3911
70°	4508
75°	5576
80°	6535
85°	6510



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.2	10.5
10°-20°	460.0	20.4
20°-30°	297.9	13.2
30°-40°	76.6	3.4
40°-50°	13.1	0.6
50°-60°	13.2	0.6
60°-70°	13.3	0.6
70°-80°	11.9	0.5
80°-90°	5.0	0.2
90°-100°	5.0	0.2
100°-110°	11.9	0.5
110°-120°	13.3	0.6
120°-130°	13.2	0.6
130°-140°	13.1	0.6
140°-150°	76.6	3.4
150°-160°	297.9	13.2
160°-170°	460.0	20.4
170°-180°	237.2	10.5
0°-30°	995.1	44.1
0°-40°	1071.8	47.5
0°-60°	1098.0	48.7
0°-90°	1128.3	50.0
90°-120°	30.2	1.3
90°-150°	133.1	5.9
90°-180°	1128.0	50.0
0°-180°	2256.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2705	
5°	2598	237
15°	1713	460
25°	618	298
35°	60	77
45°	16	13
55°	15	13
65°	13	13
75°	12	12
85°	5	5
90°	0	1
95°	5	5
105°	12	12
115°	13	13
125°	15	13
135°	16	13
145°	60	77
155°	618	298
165°	1713	460
175°	2598	237
180°	2705	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2705.1
1°	2693.0
2°	2677.1
3°	2658.3
4°	2634.1
5°	2598.5
6°	2553.4
7°	2494.4
8°	2423.8
9°	2345.2
10°	2262.0
11°	2170.9
12°	2070.6
13°	1961.9
14°	1842.7
15°	1713.1
16°	1579.4
17°	1441.8
18°	1303.9
19°	1168.0
20°	1040.5
21°	923.9
22°	822.3
23°	736.6
24°	669.3
25°	617.9
26°	577.3
27°	546.0
28°	519.6
29°	473.6
30°	404.7
32.5°	202.3
35°	60.2
37.5°	38.5
40°	25.5
42.5°	16.3
45°	15.9
47.5°	15.5
50°	15.0
52.5°	15.0
55°	14.6
57.5°	14.6
60°	14.2
62.5°	13.8
65°	13.4



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	13.0
70°	12.5
72.5°	12.1
75°	11.7
77.5°	10.5
80°	9.2
82.5°	7.1
85°	4.6
87.5°	2.1
90°	0.0
92.5°	2.1
95°	4.6
97.5°	7.1
100°	9.2
102.5°	10.5
105°	11.7
107.5°	12.1
110°	12.5
112.5°	13.0
115°	13.4
117.5°	13.8
120°	14.2
122.5°	14.6
125°	14.6
127.5°	15.0
130°	15.0
132.5°	15.5
135°	15.9
137.5°	16.3
140°	25.5
142.5°	38.5
145°	60.2
147.5°	202.3
150°	404.7
151°	473.6
152°	519.6
153°	546.0
154°	577.3
155°	617.9
156°	669.3
157°	736.6
158°	822.3
159°	923.9
160°	1040.5
161°	1168.0



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CANDELA DISTRIBUTION (continued):

	0°
162°	1303.9
163°	1441.8
164°	1579.4
165°	1713.1
166°	1842.7
167°	1961.9
168°	2070.6
169°	2170.9
170°	2262.0
171°	2345.2
172°	2423.8
173°	2494.4
174°	2553.4
175°	2598.5
176°	2634.1
177°	2658.3
178°	2677.1
179°	2693.0
180°	2705.1

(END OF REPORT)