

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: P221886

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221886
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]-LED4080-W-WT-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, WIDE FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 4000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2171.9 lumens
Efficiency: N/A
Efficacy: 110.2 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

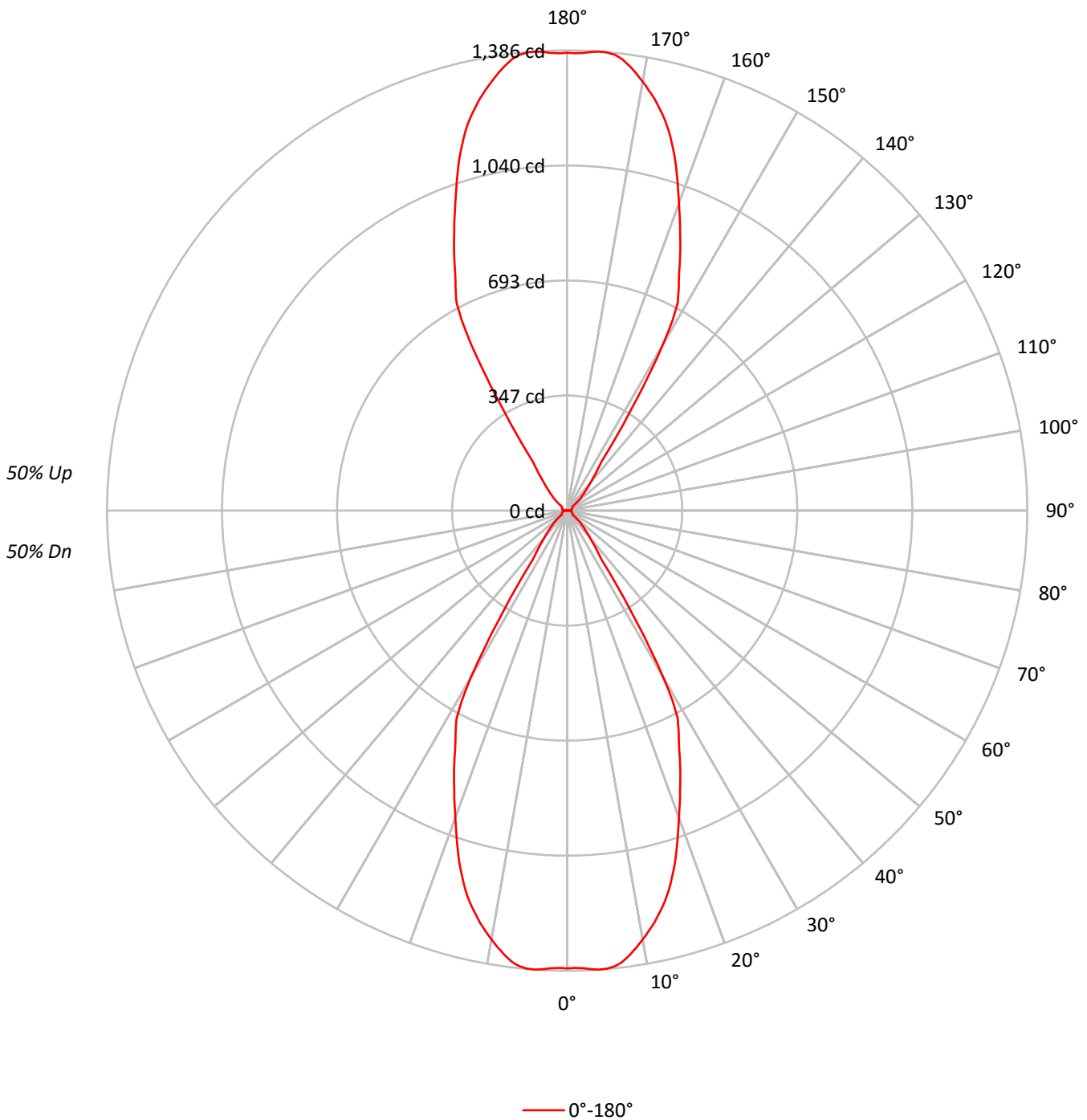
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	170106
5°	171486
10°	164301
15°	151180
20°	129227
25°	108782
30°	82223
35°	27315
40°	17374
45°	11809
50°	6908
55°	4129
60°	4539
65°	4991
70°	5734
75°	6958
80°	8311
85°	8350



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.8	6.0
10°-20°	326.5	15.0
20°-30°	365.7	16.8
30°-40°	152.9	7.0
40°-50°	53.1	2.4
50°-60°	19.3	0.9
60°-70°	17.0	0.8
70°-80°	15.1	0.7
80°-90°	6.4	0.3
90°-100°	6.4	0.3
100°-110°	15.1	0.7
110°-120°	17.0	0.8
120°-130°	19.3	0.9
130°-140°	53.1	2.4
140°-150°	152.9	7.0
150°-160°	365.7	16.8
160°-170°	326.5	15.0
170°-180°	129.8	6.0
0°-30°	822.1	37.9
0°-40°	975.0	44.9
0°-60°	1047.4	48.2
0°-90°	1085.9	50.0
90°-120°	38.5	1.8
90°-150°	263.9	12.1
90°-180°	1086.0	50.0
0°-180°	2171.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1379	
5°	1385	130
15°	1184	327
25°	799	366
35°	181	153
45°	68	53
55°	19	19
65°	17	17
75°	15	15
85°	6	6
90°	0	1
95°	6	6
105°	15	15
115°	17	17
125°	19	19
135°	68	53
145°	181	153
155°	799	366
165°	1184	327
175°	1385	130
180°	1379	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1379.1
1°	1377.9
2°	1379.1
3°	1383.3
4°	1385.8
5°	1385.0
6°	1380.0
7°	1369.1
8°	1351.9
9°	1332.7
10°	1311.8
11°	1289.7
12°	1267.1
13°	1241.6
14°	1214.4
15°	1183.9
16°	1147.5
17°	1109.5
18°	1068.5
19°	1025.9
20°	984.5
21°	946.0
22°	908.8
23°	872.0
24°	836.1
25°	799.3
26°	767.1
27°	738.7
28°	709.4
29°	655.9
30°	577.3
32.5°	346.1
35°	181.4
37.5°	138.8
40°	107.9
42.5°	84.0
45°	67.7
47.5°	54.3
50°	36.0
52.5°	21.3
55°	19.2
57.5°	18.8
60°	18.4
62.5°	18.0
65°	17.1



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	16.3
70°	15.9
72.5°	15.5
75°	14.6
77.5°	13.4
80°	11.7
82.5°	9.2
85°	5.9
87.5°	2.5
90°	0.0
92.5°	2.5
95°	5.9
97.5°	9.2
100°	11.7
102.5°	13.4
105°	14.6
107.5°	15.5
110°	15.9
112.5°	16.3
115°	17.1
117.5°	18.0
120°	18.4
122.5°	18.8
125°	19.2
127.5°	21.3
130°	36.0
132.5°	54.3
135°	67.7
137.5°	84.0
140°	107.9
142.5°	138.8
145°	181.4
147.5°	346.1
150°	577.3
151°	655.9
152°	709.4
153°	738.7
154°	767.1
155°	799.3
156°	836.1
157°	872.0
158°	908.8
159°	946.0
160°	984.5
161°	1025.9



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CANDELA DISTRIBUTION (continued):

	0°
162°	1068.5
163°	1109.5
164°	1147.5
165°	1183.9
166°	1214.4
167°	1241.6
168°	1267.1
169°	1289.7
170°	1311.8
171°	1332.7
172°	1351.9
173°	1369.1
174°	1380.0
175°	1385.0
176°	1385.8
177°	1383.3
178°	1379.1
179°	1377.9
180°	1379.1

(END OF REPORT)