

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: P222124

Luminaire Tested: **9004-W2-FL-LED4080-W-BK-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222124
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29499)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9004-W2-FL-LED4080-W-BK-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, WIDE FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 4000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4307.3 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

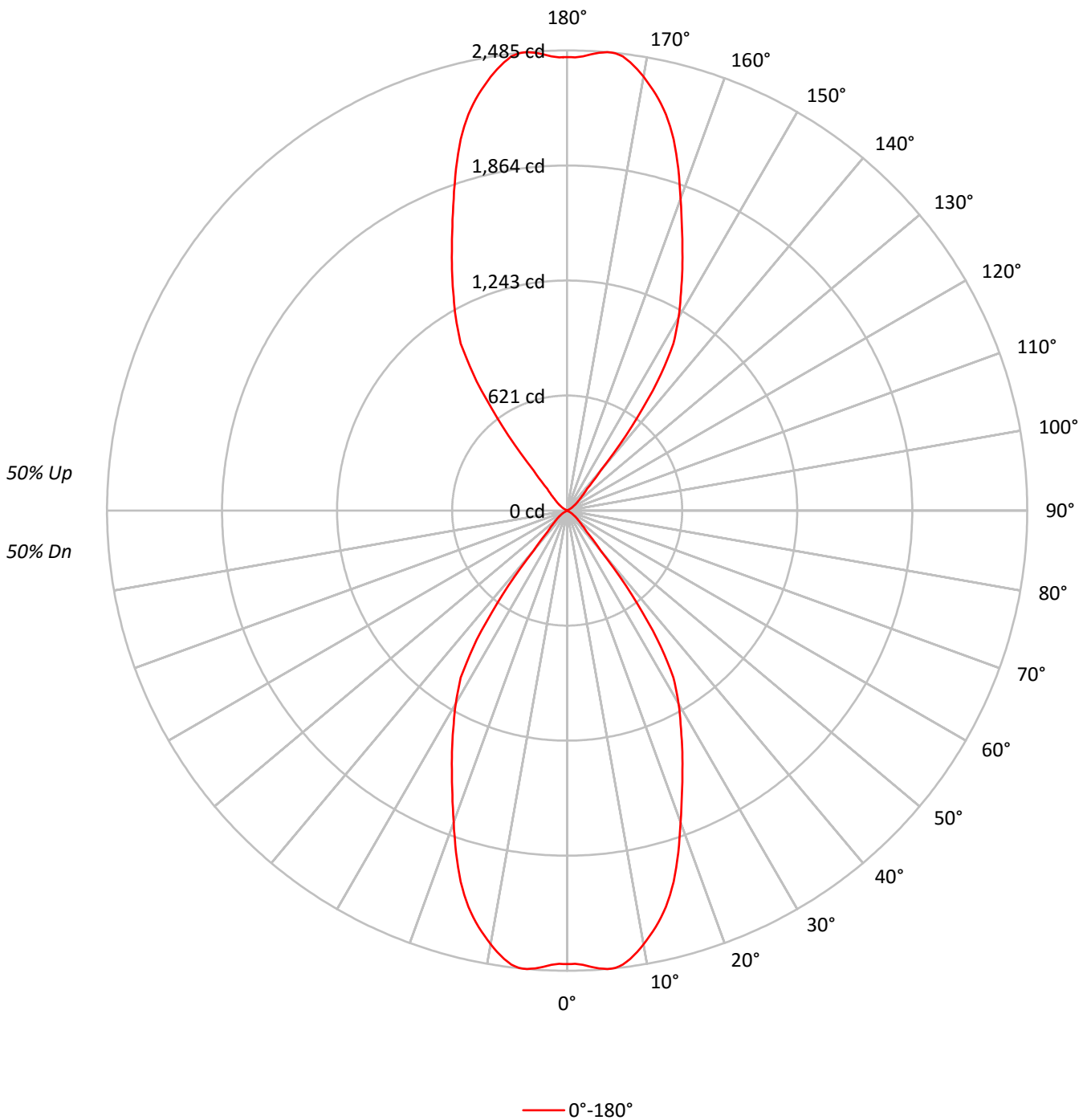
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	92	90	87	85	76	75	73		64	63	62		53	53	52	47
2	93	88	83	79	86	81	77	74	70	67	65		60	58	56		50	49	48	43
3	87	80	74	69	81	74	69	65	65	61	58		56	53	51		47	46	44	40
4	81	73	66	61	76	68	63	58	60	56	52		52	49	47		44	42	41	38
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	43		45	42	39		39	37	35	33
7	67	57	50	45	62	54	48	44	48	43	40		42	39	36		37	35	33	31
8	63	52	46	41	59	50	44	40	45	40	37		40	36	34		35	33	31	29
9	59	49	42	38	56	46	41	37	42	37	34		37	34	31		33	31	29	27
10	56	46	39	35	52	43	38	34	39	35	32		35	32	29		31	29	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	302086
5°	307734
10°	297953
15°	274408
20°	235155
25°	200539
30°	171497
35°	128201
40°	45487
45°	21281
50°	14066
55°	9462
60°	4761
65°	1138
70°	829
75°	715
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.9	5.4
10°-20°	593.1	13.8
20°-30°	677.0	15.7
30°-40°	497.0	11.5
40°-50°	105.5	2.4
50°-60°	39.9	0.9
60°-70°	5.7	0.1
70°-80°	1.5	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	1.5	0.0
110°-120°	5.7	0.1
120°-130°	39.9	0.9
130°-140°	105.5	2.4
140°-150°	497.0	11.5
150°-160°	677.0	15.7
160°-170°	593.1	13.8
170°-180°	233.9	5.4
0°-30°	1504.0	34.9
0°-40°	2001.1	46.5
0°-60°	2146.5	49.8
0°-90°	2153.6	50.0
90°-120°	7.2	0.2
90°-150°	649.6	15.1
90°-180°	2154.0	50.0
0°-180°	4307.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2449	
5°	2485	234
15°	2149	593
25°	1474	677
35°	851	497
45°	122	106
55°	44	40
65°	4	6
75°	2	2
85°	0	0
90°	0	0
95°	0	0
105°	2	2
115°	4	6
125°	44	40
135°	122	106
145°	851	497
155°	1474	677
165°	2149	593
175°	2485	234
180°	2449	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2449.1
1°	2448.4
2°	2454.6
3°	2466.9
4°	2478.5
5°	2485.4
6°	2483.9
7°	2470.8
8°	2445.3
9°	2413.6
10°	2378.9
11°	2339.5
12°	2299.4
13°	2253.9
14°	2204.5
15°	2148.9
16°	2085.6
17°	2015.4
18°	1942.8
19°	1866.4
20°	1791.5
21°	1722.0
22°	1654.9
23°	1591.6
24°	1531.4
25°	1473.5
26°	1417.2
27°	1360.0
28°	1305.2
29°	1254.3
30°	1204.1
32.5°	1069.0
35°	851.4
37.5°	575.0
40°	282.5
42.5°	159.0
45°	122.0
47.5°	95.7
50°	73.3
52.5°	57.9
55°	44.0
57.5°	31.6
60°	19.3
62.5°	5.4
65°	3.9



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	3.1
70°	2.3
72.5°	2.3
75°	1.5
77.5°	0.8
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°	0.8
105°	1.5
107.5°	2.3
110°	2.3
112.5°	3.1
115°	3.9
117.5°	5.4
120°	19.3
122.5°	31.6
125°	44.0
127.5°	57.9
130°	73.3
132.5°	95.7
135°	122.0
137.5°	159.0
140°	282.5
142.5°	575.0
145°	851.4
147.5°	1069.0
150°	1204.1
151°	1254.3
152°	1305.2
153°	1360.0
154°	1417.2
155°	1473.5
156°	1531.4
157°	1591.6
158°	1654.9
159°	1722.0
160°	1791.5
161°	1866.4



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CANDELA DISTRIBUTION (continued):

	0°
162°	1942.8
163°	2015.4
164°	2085.6
165°	2148.9
166°	2204.5
167°	2253.9
168°	2299.4
169°	2339.5
170°	2378.9
171°	2413.6
172°	2445.3
173°	2470.8
174°	2483.9
175°	2485.4
176°	2478.5
177°	2466.9
178°	2454.6
179°	2448.4
180°	2449.1

(END OF REPORT)