

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: P222004

Luminaire Tested: **9004-W2-FL-LED2797-W-BK-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222004
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-LED2797-W-BK-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, WIDE FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 2700K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3011.9 lumens
Efficiency: N/A
Efficacy: 74.9 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

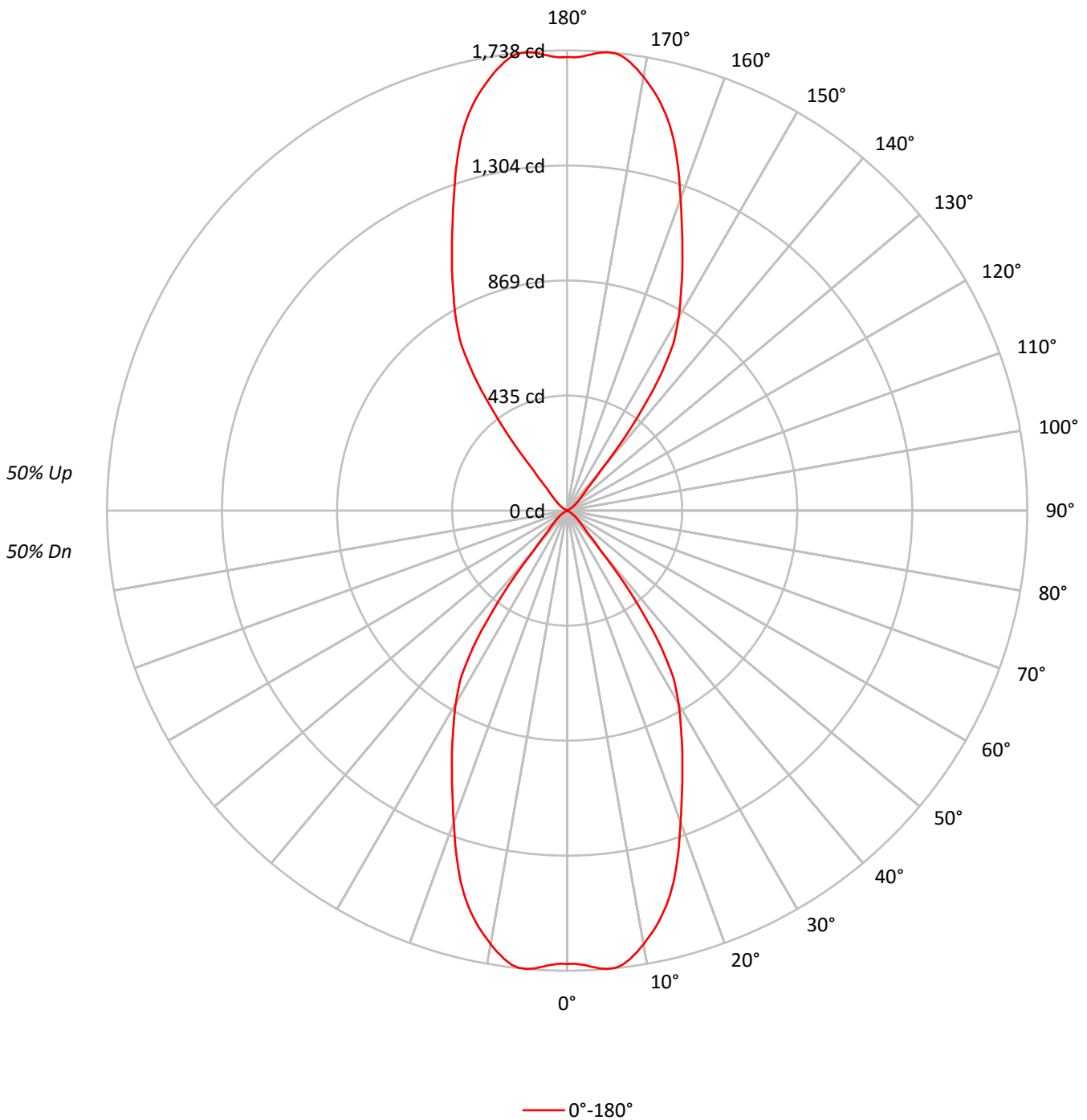
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	211242
5°	215181
10°	208338
15°	191877
20°	164432
25°	140221
30°	119924
35°	89639
40°	31801
45°	14879
50°	9844
55°	6623
60°	3330
65°	788
70°	577
75°	524
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.5	5.4
10°-20°	414.7	13.8
20°-30°	473.4	15.7
30°-40°	347.6	11.5
40°-50°	73.8	2.4
50°-60°	27.9	0.9
60°-70°	4.0	0.1
70°-80°	1.1	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	1.1	0.0
110°-120°	4.0	0.1
120°-130°	27.9	0.9
130°-140°	73.8	2.4
140°-150°	347.6	11.5
150°-160°	473.4	15.7
160°-170°	414.7	13.8
170°-180°	163.5	5.4
0°-30°	1051.7	34.9
0°-40°	1399.2	46.5
0°-60°	1500.9	49.8
0°-90°	1505.9	50.0
90°-120°	5.0	0.2
90°-150°	454.3	15.1
90°-180°	1506.0	50.0
0°-180°	3011.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1713	
5°	1738	164
15°	1503	415
25°	1030	473
35°	595	348
45°	85	74
55°	31	28
65°	3	4
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	3	4
125°	31	28
135°	85	74
145°	595	348
155°	1030	473
165°	1503	415
175°	1738	164
180°	1713	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1712.6
1°	1712.0
2°	1716.3
3°	1725.0
4°	1733.1
5°	1737.9
6°	1736.8
7°	1727.7
8°	1709.9
9°	1687.7
10°	1663.4
11°	1635.9
12°	1607.9
13°	1576.0
14°	1541.5
15°	1502.6
16°	1458.3
17°	1409.2
18°	1358.5
19°	1305.1
20°	1252.7
21°	1204.1
22°	1157.2
23°	1112.9
24°	1070.8
25°	1030.3
26°	990.9
27°	951.0
28°	912.7
29°	877.1
30°	842.0
32.5°	747.5
35°	595.3
37.5°	402.1
40°	197.5
42.5°	111.2
45°	85.3
47.5°	66.9
50°	51.3
52.5°	40.5
55°	30.8
57.5°	22.1
60°	13.5
62.5°	3.8
65°	2.7



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	2.2
70°	1.6
72.5°	1.6
75°	1.1
77.5°	0.5
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°	0.5
105°	1.1
107.5°	1.6
110°	1.6
112.5°	2.2
115°	2.7
117.5°	3.8
120°	13.5
122.5°	22.1
125°	30.8
127.5°	40.5
130°	51.3
132.5°	66.9
135°	85.3
137.5°	111.2
140°	197.5
142.5°	402.1
145°	595.3
147.5°	747.5
150°	842.0
151°	877.1
152°	912.7
153°	951.0
154°	990.9
155°	1030.3
156°	1070.8
157°	1112.9
158°	1157.2
159°	1204.1
160°	1252.7
161°	1305.1



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CANDELA DISTRIBUTION (continued):

	0°
162°	1358.5
163°	1409.2
164°	1458.3
165°	1502.6
166°	1541.5
167°	1576.0
168°	1607.9
169°	1635.9
170°	1663.4
171°	1687.7
172°	1709.9
173°	1727.7
174°	1736.8
175°	1737.9
176°	1733.1
177°	1725.0
178°	1716.3
179°	1712.0
180°	1712.6

(END OF REPORT)