

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: P221764

Luminaire Tested: **9004-W2-[RW, RI]-LED2797-W-BK-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221764
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29494)
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]-LED2797-W-BK-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED 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: 2576.6 lumens
Efficiency: N/A
Efficacy: 64.1 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.83
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

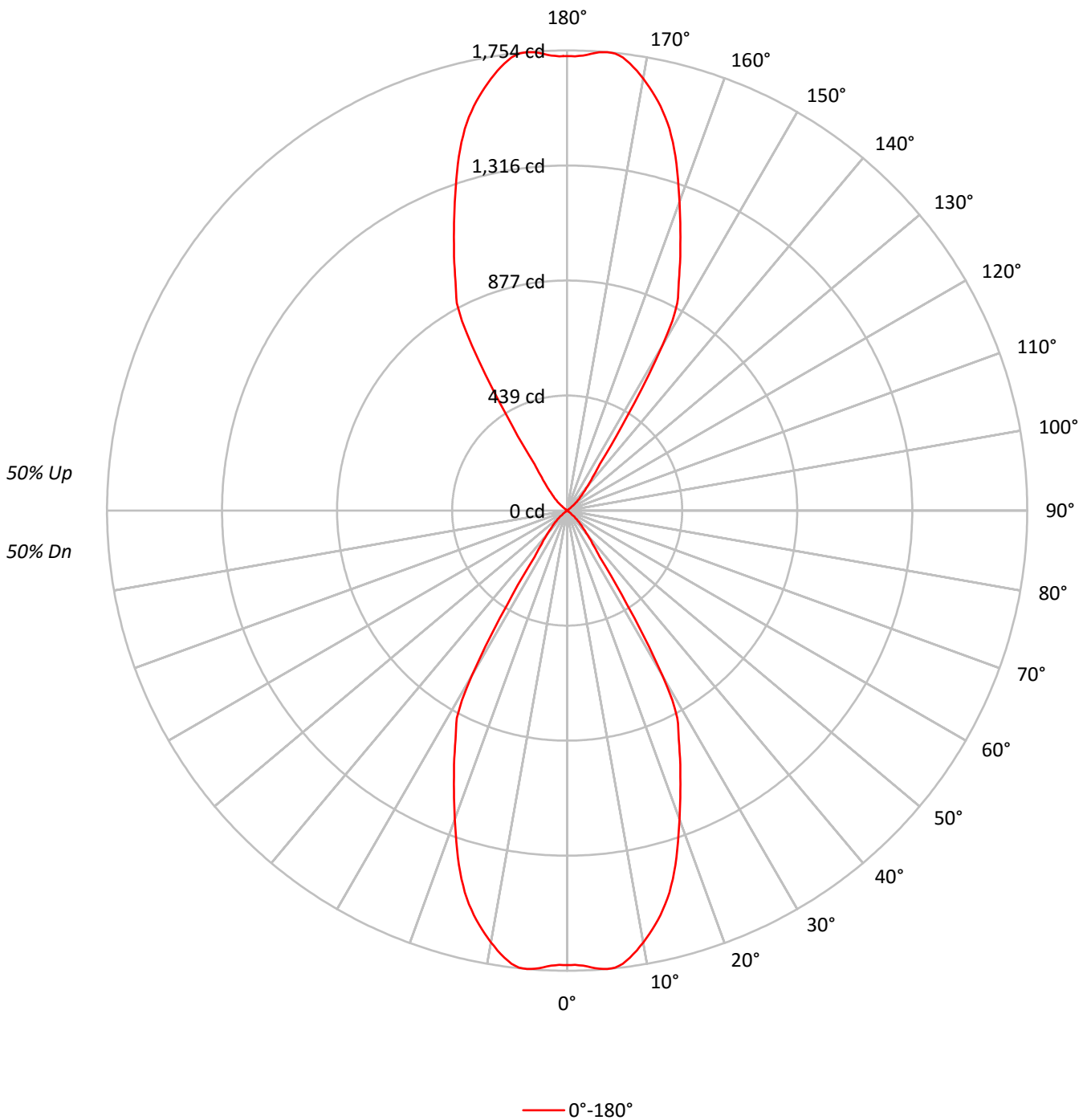
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	90	87	85	77	75	74	65	64	63	53	53	52	47
2	94	88	83	79	87	82	78	75	71	68	66	60	59	57	51	50	49	44
3	88	80	75	70	81	75	70	67	65	62	59	56	54	52	48	47	45	42
4	82	74	68	63	76	69	64	60	61	57	54	53	50	48	46	44	42	39
5	77	68	62	57	72	64	58	54	57	52	49	50	47	44	43	41	40	37
6	72	63	56	52	68	59	54	50	53	49	45	47	44	41	41	39	37	35
7	68	58	52	47	64	55	50	46	49	45	42	44	41	38	39	37	35	33
8	64	54	48	44	60	52	46	42	46	42	39	41	38	36	37	35	33	31
9	61	51	45	40	57	48	43	39	44	39	36	39	36	34	35	33	31	29
10	58	48	42	38	54	45	40	36	41	37	34	37	34	32	33	31	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	213696
5°	217187
10°	209353
15°	192426
20°	164287
25°	138029
30°	103317
35°	32434
40°	19209
45°	11670
50°	4874
55°	817
60°	543
65°	321
70°	180
75°	238
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.8	6.4
10°-20°	415.6	16.1
20°-30°	462.9	18.0
30°-40°	184.7	7.2
40°-50°	52.8	2.0
50°-60°	5.9	0.2
60°-70°	1.1	0.0
70°-80°	0.5	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.5	0.0
110°-120°	1.1	0.0
120°-130°	5.9	0.2
130°-140°	52.8	2.0
140°-150°	184.7	7.2
150°-160°	462.9	18.0
160°-170°	415.6	16.1
170°-180°	164.8	6.4
0°-30°	1043.3	40.5
0°-40°	1228.1	47.7
0°-60°	1286.7	49.9
0°-90°	1288.3	50.0
90°-120°	1.6	0.1
90°-150°	244.9	9.5
90°-180°	1288.0	50.0
0°-180°	2576.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1732	
5°	1754	165
15°	1507	416
25°	1014	463
35°	215	185
45°	67	53
55°	4	6
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	1	1
125°	4	6
135°	67	53
145°	215	185
155°	1014	463
165°	1507	416
175°	1754	165
180°	1732	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1732.5
1°	1732.0
2°	1735.2
3°	1743.3
4°	1750.9
5°	1754.1
6°	1752.0
7°	1740.6
8°	1721.2
9°	1697.5
10°	1671.5
11°	1643.5
12°	1614.3
13°	1581.9
14°	1546.3
15°	1506.9
16°	1461.1
17°	1411.9
18°	1358.5
19°	1304.0
20°	1251.6
21°	1200.9
22°	1152.3
23°	1104.8
24°	1060.0
25°	1014.2
26°	971.0
27°	933.7
28°	894.9
29°	826.3
30°	725.4
32.5°	424.2
35°	215.4
37.5°	159.2
40°	119.3
42.5°	88.5
45°	66.9
47.5°	49.7
50°	25.4
52.5°	6.5
55°	3.8
57.5°	2.7
60°	2.2
62.5°	1.6
65°	1.1



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.5
70°	0.5
72.5°	0.5
75°	0.5
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°	0.5
107.5°	0.5
110°	0.5
112.5°	0.5
115°	1.1
117.5°	1.6
120°	2.2
122.5°	2.7
125°	3.8
127.5°	6.5
130°	25.4
132.5°	49.7
135°	66.9
137.5°	88.5
140°	119.3
142.5°	159.2
145°	215.4
147.5°	424.2
150°	725.4
151°	826.3
152°	894.9
153°	933.7
154°	971.0
155°	1014.2
156°	1060.0
157°	1104.8
158°	1152.3
159°	1200.9
160°	1251.6
161°	1304.0



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CANDELA DISTRIBUTION (continued):

	0°
162°	1358.5
163°	1411.9
164°	1461.1
165°	1506.9
166°	1546.3
167°	1581.9
168°	1614.3
169°	1643.5
170°	1671.5
171°	1697.5
172°	1721.2
173°	1740.6
174°	1752.0
175°	1754.1
176°	1750.9
177°	1743.3
178°	1735.2
179°	1732.0
180°	1732.5

(END OF REPORT)