

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: P221758

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221758
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29491)
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-S-BK-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, SPOT OPTIC, BLACK HOUSING.
Light Source: (1) 2700K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2679.0 lumens
Efficiency: N/A
Efficacy: 66.6 lumens/watt
Spacing Criteria (0/90/45): 0.27 / 0.27 / 0.27
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

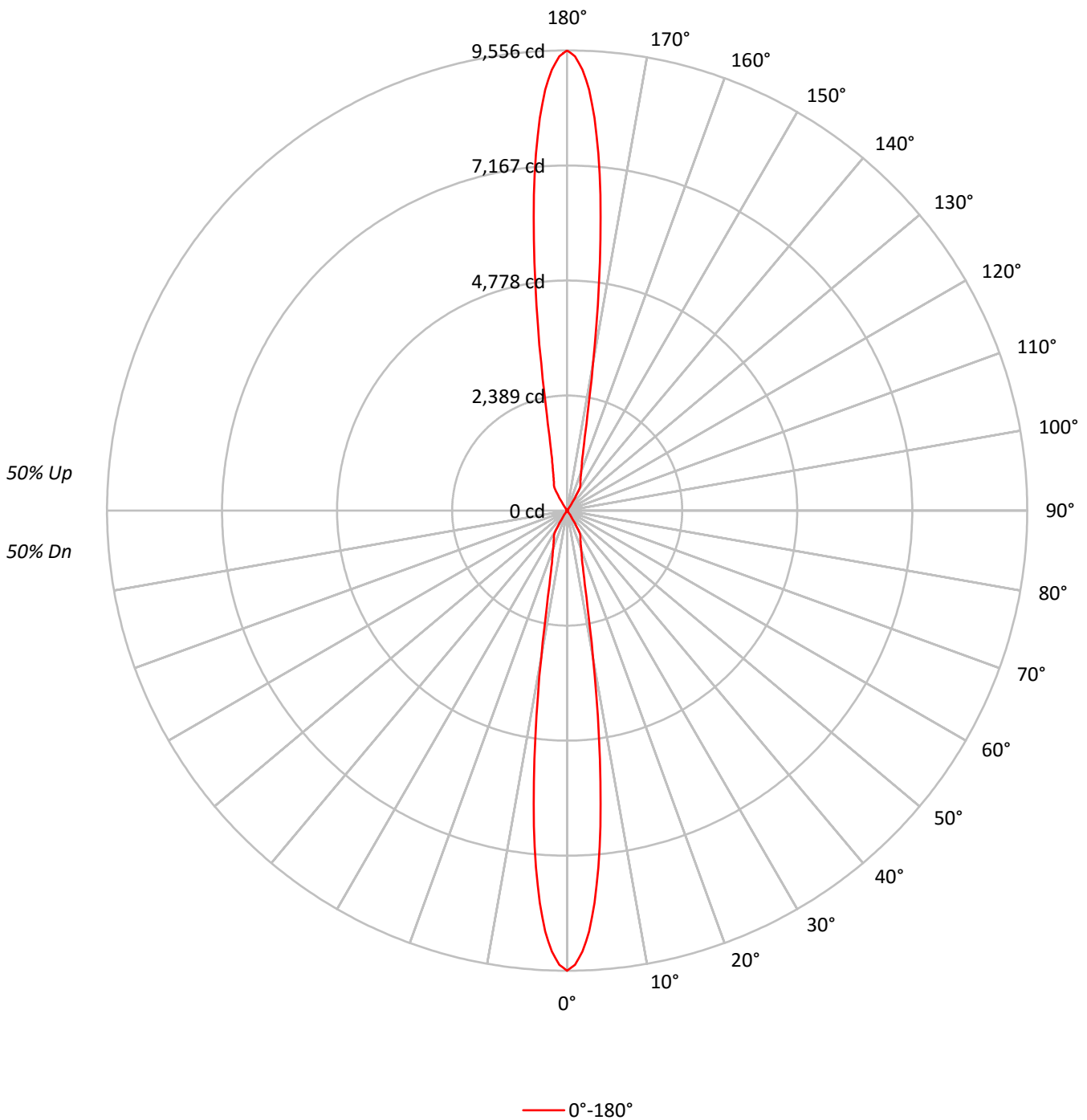
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	101	98	95	93	93	91	88	86	78	76	75	65	65	64	54	54	53	48				
2	95	90	86	82	88	84	80	77	73	70	68	62	61	59	53	52	51	47				
3	90	83	78	74	83	78	74	70	68	65	63	59	57	56	51	50	49	45				
4	85	77	72	68	79	73	68	64	64	61	58	57	54	53	49	48	47	44				
5	81	72	67	62	75	68	63	60	61	57	55	54	52	50	48	46	45	42				
6	77	68	62	58	72	65	60	56	58	54	52	52	49	48	46	45	43	41				
7	73	64	58	54	69	61	56	53	55	52	49	50	47	45	45	43	42	40				
8	70	61	55	51	66	58	53	50	53	49	47	48	46	44	44	42	41	39				
9	67	58	52	49	63	56	51	47	51	47	45	47	44	42	42	41	39	38				
10	64	55	50	47	61	53	48	45	49	45	43	45	42	41	41	40	38	37				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1178678
5°	920887
10°	387894
15°	164384
20°	111297
25°	88368
30°	65417
35°	5933
40°	2174
45°	663
50°	518
55°	581
60°	395
65°	321
70°	180
75°	238
80°	355
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	559.9	20.9
10°-20°	395.6	14.8
20°-30°	302.1	11.3
30°-40°	74.1	2.8
40°-50°	4.0	0.1
50°-60°	2.2	0.1
60°-70°	1.0	0.0
70°-80°	0.5	0.0
80°-90°	0.2	0.0
90°-100°	0.3	0.0
100°-110°	0.5	0.0
110°-120°	1.0	0.0
120°-130°	2.2	0.1
130°-140°	4.0	0.1
140°-150°	74.1	2.8
150°-160°	302.1	11.3
160°-170°	395.6	14.8
170°-180°	559.9	20.9
0°-30°	1257.5	46.9
0°-40°	1331.6	49.7
0°-60°	1337.7	49.9
0°-90°	1339.5	50.0
90°-120°	1.9	0.1
90°-150°	82.1	3.1
90°-180°	1340.0	50.0
0°-180°	2679.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9556	
5°	7438	560
15°	1287	396
25°	649	302
35°	39	74
45°	4	4
55°	3	2
65°	1	1
75°	0	1
85°	0	0
90°	0	0
95°	0	0
105°	0	1
115°	1	1
125°	3	2
135°	4	4
145°	39	74
155°	649	302
165°	1287	396
175°	7438	560
180°	9556	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	9555.9
1°	9433.4
2°	9163.5
3°	8749.5
4°	8169.9
5°	7437.5
6°	6595.5
7°	5670.4
8°	4738.8
9°	3886.0
10°	3097.0
11°	2472.0
12°	2014.3
13°	1690.4
14°	1460.0
15°	1287.3
16°	1154.5
17°	1057.9
18°	981.2
19°	909.4
20°	847.9
22.5°	731.3
25°	649.3
26°	627.2
27°	608.8
28°	590.5
29°	541.9
30°	459.3
32.5°	206.7
35°	39.4
37.5°	21.6
40°	13.5
42.5°	5.9
45°	3.8
47.5°	3.2
50°	2.7
52.5°	2.7
55°	2.7
57.5°	2.2
60°	1.6
62.5°	1.6
65°	1.1
67.5°	0.5
70°	0.5
72.5°	0.5



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CANDELA DISTRIBUTION (continued):

	0°
75°	0.5
77.5°	0.5
80°	0.5
82.5°	0.5
85°	0.0
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.5
100°	0.5
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°	1.6
122.5°	2.2
125°	2.7
127.5°	2.7
130°	2.7
132.5°	3.2
135°	3.8
137.5°	5.9
140°	13.5
142.5°	21.6
145°	39.4
147.5°	206.7
150°	459.3
151°	541.9
152°	590.5
153°	608.8
154°	627.2
155°	649.3
157.5°	731.3
160°	847.9
161°	909.4
162°	981.2
163°	1057.9
164°	1154.5
165°	1287.3
166°	1460.0
167°	1690.4



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CANDELA DISTRIBUTION (continued):

	0°
168°	2014.3
169°	2472.0
170°	3097.0
171°	3886.0
172°	4738.8
173°	5670.4
174°	6595.5
175°	7437.5
176°	8169.9
177°	8749.5
178°	9163.5
179°	9433.4
180°	9555.9

(END OF REPORT)