

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: P221998

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221998
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29496)
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-S-BK-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, SPOT OPTIC,
BLACK HOUSING.
Light Source: (1) 2700K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

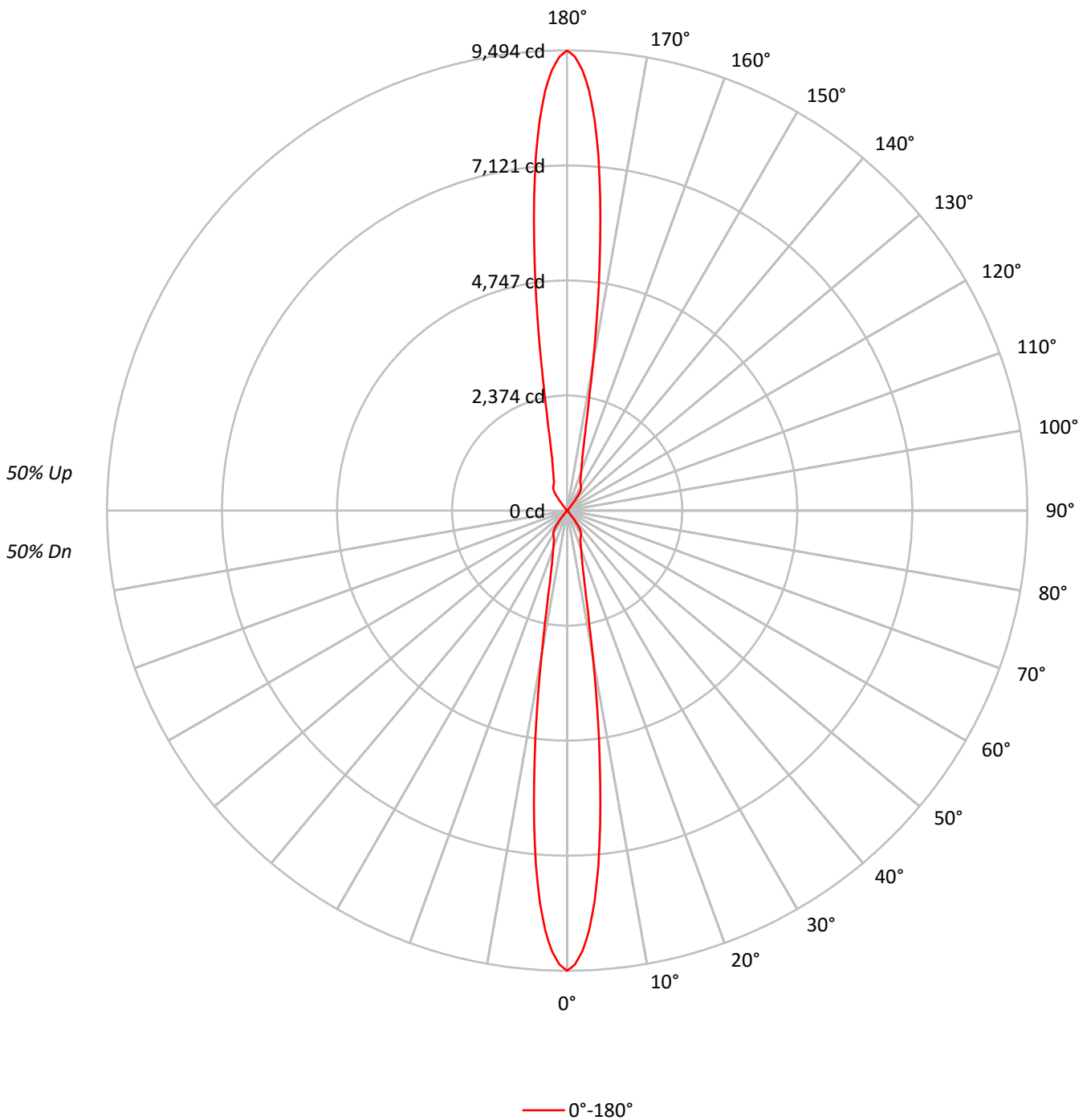
Lumens per Lamp: N/A
Luminaire Lumens: 3023.8 lumens
Efficiency: N/A
Efficacy: 75.2 lumens/watt
Spacing Criteria (0/90/45): 0.27 / 0.27 / 0.27
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (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	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	97	95	92	93	90	88	86	77	76	74	65	64	63	54	54	53	48				
2	95	89	85	81	88	83	80	76	72	69	67	62	60	58	52	51	50	46				
3	89	82	77	73	83	77	72	69	67	64	62	58	56	54	50	49	48	44				
4	84	76	70	66	78	72	67	63	63	60	57	55	53	51	48	46	45	42				
5	79	71	65	60	74	67	62	58	59	56	53	53	50	48	46	44	43	40				
6	75	66	60	56	70	63	58	54	56	52	49	50	47	45	44	43	41	39				
7	71	62	56	52	67	59	54	50	53	49	47	48	45	43	43	41	40	37				
8	68	59	53	49	64	56	51	47	51	47	44	46	43	41	41	39	38	36				
9	65	56	50	46	61	53	48	45	48	45	42	44	41	39	40	38	37	35				
10	62	53	47	44	59	51	46	42	46	43	40	42	40	38	39	37	35	34				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1171019
5°	911527
10°	379641
15°	160515
20°	110168
25°	87932
30°	81255
35°	66480
40°	13992
45°	3210
50°	1132
55°	925
60°	543
65°	321
70°	180
75°	238
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	553.3	18.3
10°-20°	387.7	12.8
20°-30°	305.6	10.1
30°-40°	240.6	8.0
40°-50°	19.4	0.6
50°-60°	3.8	0.1
60°-70°	1.0	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°	1.0	0.0
120°-130°	3.8	0.1
130°-140°	19.4	0.6
140°-150°	240.6	8.0
150°-160°	305.6	10.1
160°-170°	387.7	12.8
170°-180°	553.3	18.3
0°-30°	1246.6	41.2
0°-40°	1487.2	49.2
0°-60°	1510.4	50.0
0°-90°	1511.9	50.0
90°-120°	1.5	0.0
90°-150°	265.3	8.8
90°-180°	1512.0	50.0
0°-180°	3023.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9494	
5°	7362	553
15°	1257	388
25°	646	306
35°	442	241
45°	18	19
55°	4	4
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	1	1
125°	4	4
135°	18	19
145°	442	241
155°	646	306
165°	1257	388
175°	7362	553
180°	9494	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	9493.8
1°	9363.2
2°	9091.7
3°	8670.7
4°	8094.9
5°	7361.9
6°	6515.6
7°	5601.3
8°	4704.3
9°	3801.3
10°	3031.1
11°	2416.4
12°	1970.6
13°	1654.8
14°	1426.0
15°	1257.0
16°	1130.2
17°	1037.4
18°	966.7
19°	899.2
20°	839.3
21°	789.6
22°	745.4
23°	706.5
24°	672.5
25°	646.1
26°	626.1
27°	611.0
28°	596.4
29°	583.4
30°	570.5
32.5°	538.1
35°	441.5
37.5°	263.4
40°	86.9
42.5°	25.9
45°	18.4
47.5°	13.0
50°	5.9
52.5°	5.4
55°	4.3
57.5°	3.2
60°	2.2
62.5°	1.1
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°	1.1
120°	2.2
122.5°	3.2
125°	4.3
127.5°	5.4
130°	5.9
132.5°	13.0
135°	18.4
137.5°	25.9
140°	86.9
142.5°	263.4
145°	441.5
147.5°	538.1
150°	570.5
151°	583.4
152°	596.4
153°	611.0
154°	626.1
155°	646.1
156°	672.5
157°	706.5
158°	745.4
159°	789.6
160°	839.3
161°	899.2



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CANDELA DISTRIBUTION (continued):

	0°
162°	966.7
163°	1037.4
164°	1130.2
165°	1257.0
166°	1426.0
167°	1654.8
168°	1970.6
169°	2416.4
170°	3031.1
171°	3801.3
172°	4704.3
173°	5601.3
174°	6515.6
175°	7361.9
176°	8094.9
177°	8670.7
178°	9091.7
179°	9363.2
180°	9493.8

(END OF REPORT)