

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: P221993

Luminaire Tested: **9004-W2-FL-LED2797-M-BK-L3-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221993  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29497)  
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-M-BK-L3-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, MEDIUM FLOOD OPTIC, BLACK HOUSING.  
Light Source: (1) 2700K CCT, 97 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3952.5 lumens  
Efficiency: N/A  
Efficacy: 69.1 lumens/watt  
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: General Diffuse

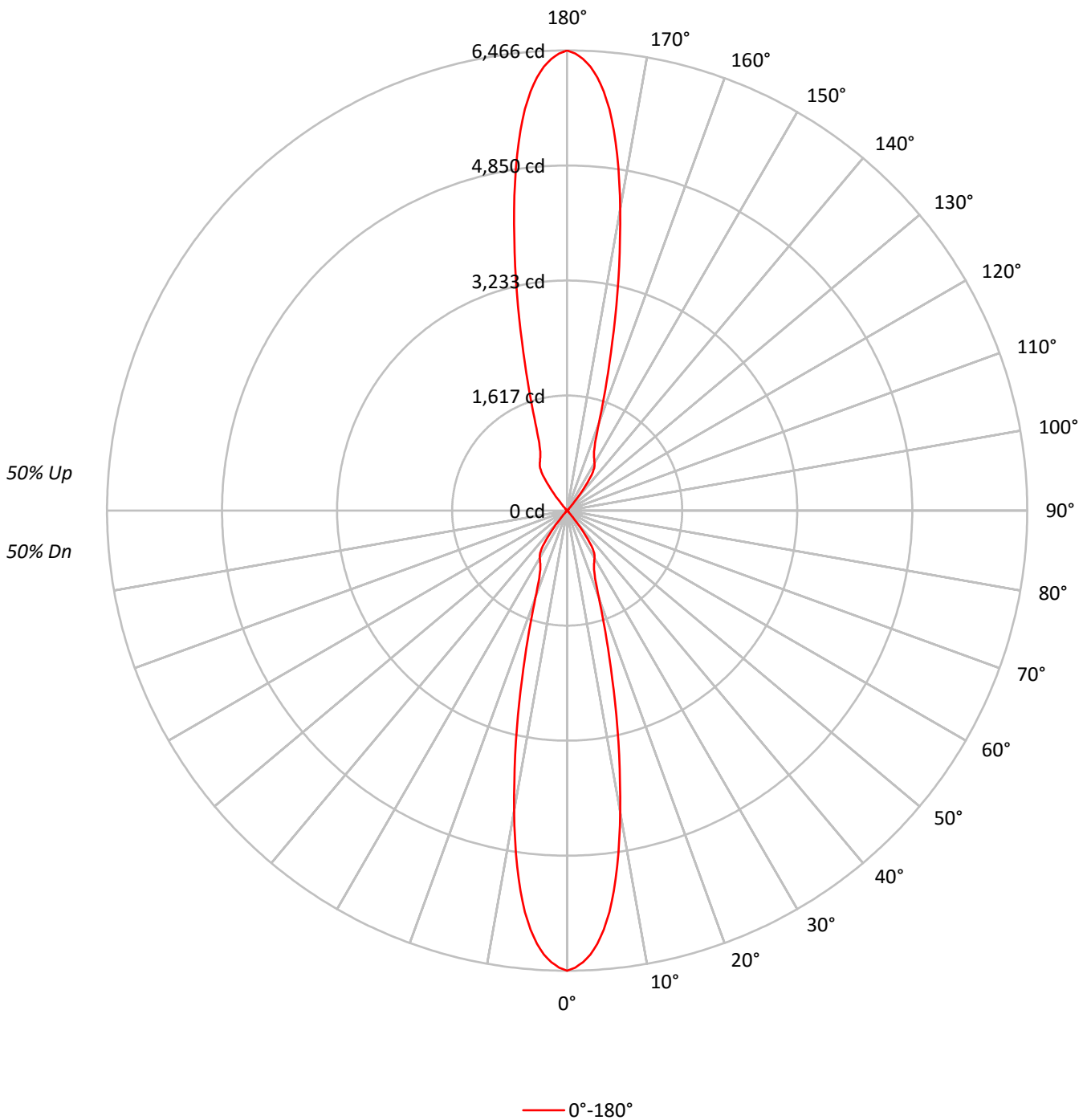
Input Watts (W): 57.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	101	97	94	92	93	90	88	86	77	76	74		65	64	63		54	53	53	48
2	94	89	84	81	87	83	79	76	72	69	67		61	59	58		52	51	50	45
3	89	82	76	72	82	76	72	68	67	63	61		58	56	54		49	48	47	43
4	83	75	69	65	78	71	66	62	62	59	56		55	52	50		47	46	44	41
5	79	70	64	59	73	66	61	57	59	55	52		52	49	47		45	43	42	39
6	74	65	59	55	70	62	56	52	55	51	48		49	46	44		43	41	40	38
7	70	61	55	51	66	58	53	49	52	48	45		47	44	42		42	40	38	36
8	67	57	51	47	63	55	49	46	49	45	42		45	42	39		40	38	36	34
9	64	54	48	44	60	52	46	43	47	43	40		43	40	38		38	36	35	33
10	61	51	45	42	57	49	44	40	45	41	38		41	38	36		37	35	33	32

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	797540
5°	731844
10°	537742
15°	313061
20°	170719
25°	121330
30°	109356
35°	86130
40°	19145
45°	5251
50°	1746
55°	1054
60°	691
65°	409
70°	252
75°	334
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	512.0	13.0
10°-20°	683.3	17.3
20°-30°	427.3	10.8
30°-40°	317.0	8.0
40°-50°	29.5	0.7
50°-60°	4.7	0.1
60°-70°	1.6	0.0
70°-80°	0.6	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.6	0.0
110°-120°	1.6	0.0
120°-130°	4.7	0.1
130°-140°	29.5	0.7
140°-150°	317.0	8.0
150°-160°	427.3	10.8
160°-170°	683.3	17.3
170°-180°	512.0	13.0
0°-30°	1622.7	41.1
0°-40°	1939.7	49.1
0°-60°	1974.0	49.9
0°-90°	1976.2	50.0
90°-120°	2.3	0.1
90°-150°	353.5	8.9
90°-180°	1976.0	50.0
0°-180°	3952.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6466	
5°	5911	512
15°	2452	683
25°	892	427
35°	572	317
45°	30	30
55°	5	5
65°	1	2
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	1	2
125°	5	5
135°	30	30
145°	572	317
155°	892	427
165°	2452	683
175°	5911	512
180°	6466	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	6465.9
1°	6423.3
2°	6350.6
3°	6245.7
4°	6101.6
5°	5910.7
6°	5673.7
7°	5387.7
8°	5054.2
9°	4682.2
10°	4293.4
11°	3895.5
12°	3510.2
13°	3134.7
14°	2778.1
15°	2451.6
16°	2154.4
17°	1895.0
18°	1662.1
19°	1464.9
20°	1300.6
21°	1170.5
22°	1066.4
23°	989.4
24°	932.8
25°	891.5
26°	860.8
27°	834.2
28°	809.7
29°	788.8
30°	767.8
32.5°	709.7
35°	572.0
37.5°	346.1
40°	118.9
42.5°	41.3
45°	30.1
47.5°	21.7
50°	9.1
52.5°	7.0
55°	4.9
57.5°	3.5
60°	2.8
62.5°	2.1
65°	1.4



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	1.4
70°	0.7
72.5°	0.7
75°	0.7
77.5°	0.7
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°	0.7
105°	0.7
107.5°	0.7
110°	0.7
112.5°	1.4
115°	1.4
117.5°	2.1
120°	2.8
122.5°	3.5
125°	4.9
127.5°	7.0
130°	9.1
132.5°	21.7
135°	30.1
137.5°	41.3
140°	118.9
142.5°	346.1
145°	572.0
147.5°	709.7
150°	767.8
151°	788.8
152°	809.7
153°	834.2
154°	860.8
155°	891.5
156°	932.8
157°	989.4
158°	1066.4
159°	1170.5
160°	1300.6
161°	1464.9



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**CANDELA DISTRIBUTION (continued):**

	0°
162°	1662.1
163°	1895.0
164°	2154.4
165°	2451.6
166°	2778.1
167°	3134.7
168°	3510.2
169°	3895.5
170°	4293.4
171°	4682.2
172°	5054.2
173°	5387.7
174°	5673.7
175°	5910.7
176°	6101.6
177°	6245.7
178°	6350.6
179°	6423.3
180°	6465.9

(END OF REPORT)