

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: P221987

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221987  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29498)  
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-F-BK-L3-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, FLOOD OPTIC, BLACK HOUSING.  
Light Source: (1) 2700K CCT, 97 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

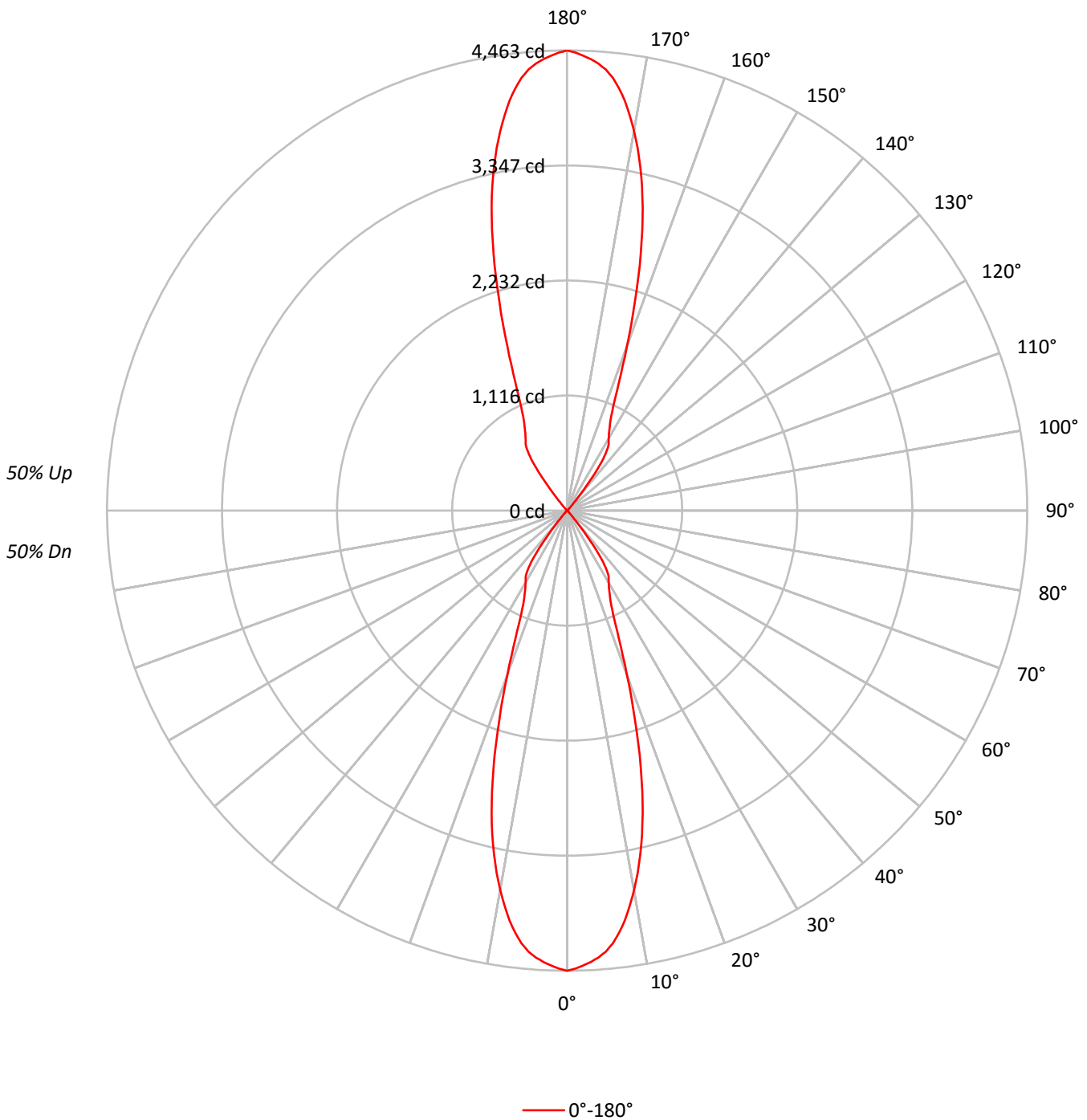
Lumens per Lamp: N/A  
Luminaire Lumens: 4014.9 lumens  
Efficiency: N/A  
Efficacy: 70.4 lumens/watt  
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.56  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 57  
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	92	93	90	88	86	77	75	74		65	64	63		54	53	53	48
2	94	89	84	80	87	83	79	76	71	69	66		61	59	58		51	50	49	45
3	88	81	76	71	82	76	71	68	66	63	60		57	55	53		49	48	46	43
4	83	75	69	64	77	70	65	61	62	58	55		54	51	49		47	45	44	40
5	78	69	63	58	73	65	60	56	58	54	51		51	48	46		45	43	41	38
6	74	64	58	54	69	61	55	52	54	50	47		48	45	43		43	41	39	37
7	70	60	54	50	65	57	52	48	51	47	44		46	43	41		41	39	37	35
8	66	56	50	46	62	54	48	44	48	44	41		44	41	38		39	37	35	33
9	63	53	47	43	59	50	45	42	46	42	39		41	38	36		37	35	34	32
10	60	50	44	40	56	48	43	39	44	39	37		40	37	34		36	34	32	30

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

	0°
0°	550529
5°	531682
10°	468116
15°	359581
20°	222397
25°	137798
30°	114825
35°	91912
40°	20047
45°	4274
50°	806
55°	452
60°	345
65°	204
70°	252
75°	334
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	392.2	9.8
10°-20°	755.1	18.8
20°-30°	495.9	12.4
30°-40°	334.4	8.3
40°-50°	26.4	0.7
50°-60°	1.9	0.0
60°-70°	0.9	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°	0.9	0.0
120°-130°	1.9	0.0
130°-140°	26.4	0.7
140°-150°	334.4	8.3
150°-160°	495.9	12.4
160°-170°	755.1	18.8
170°-180°	392.2	9.8
0°-30°	1643.2	40.9
0°-40°	1977.6	49.3
0°-60°	2005.9	50.0
0°-90°	2007.5	50.0
90°-120°	1.6	0.0
90°-150°	364.3	9.1
90°-180°	2007.0	50.0
0°-180°	4014.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4463	
5°	4294	392
15°	2816	755
25°	1012	496
35°	610	334
45°	24	26
55°	2	2
65°	1	1
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	1	1
125°	2	2
135°	24	26
145°	610	334
155°	1012	496
165°	2816	755
175°	4294	392
180°	4463	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4463.3
1°	4443.7
2°	4415.0
3°	4383.6
4°	4346.5
5°	4294.1
6°	4222.1
7°	4128.4
8°	4013.0
9°	3879.4
10°	3737.5
11°	3581.5
12°	3411.6
13°	3226.3
14°	3029.1
15°	2815.9
16°	2591.4
17°	2359.3
18°	2127.1
19°	1908.9
20°	1694.3
21°	1508.3
22°	1341.2
23°	1202.7
24°	1095.7
25°	1012.5
26°	952.4
27°	906.2
28°	867.1
29°	834.9
30°	806.2
32.5°	746.1
35°	610.4
37.5°	362.9
40°	124.5
42.5°	37.1
45°	24.5
47.5°	15.4
50°	4.2
52.5°	2.1
55°	2.1
57.5°	1.4
60°	1.4
62.5°	1.4
65°	0.7



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	0.7
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°	0.7
115°	0.7
117.5°	1.4
120°	1.4
122.5°	1.4
125°	2.1
127.5°	2.1
130°	4.2
132.5°	15.4
135°	24.5
137.5°	37.1
140°	124.5
142.5°	362.9
145°	610.4
147.5°	746.1
150°	806.2
151°	834.9
152°	867.1
153°	906.2
154°	952.4
155°	1012.5
156°	1095.7
157°	1202.7
158°	1341.2
159°	1508.3
160°	1694.3
161°	1908.9



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**CANDELA DISTRIBUTION (continued):**

	0°
162°	2127.1
163°	2359.3
164°	2591.4
165°	2815.9
166°	3029.1
167°	3226.3
168°	3411.6
169°	3581.5
170°	3737.5
171°	3879.4
172°	4013.0
173°	4128.4
174°	4222.1
175°	4294.1
176°	4346.5
177°	4383.6
178°	4415.0
179°	4443.7
180°	4463.3

(END OF REPORT)