

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: P221738

Luminaire Tested: **9004-W2-[RW, RI]-LED2790-S-WT-L3-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221738  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29487)  
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]-LED2790-S-WT-L3-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, SPOT OPTIC, WHITE HOUSING.  
Light Source: (1) 2700K CCT, 90 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3985.4 lumens  
Efficiency: N/A  
Efficacy: 69.7 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

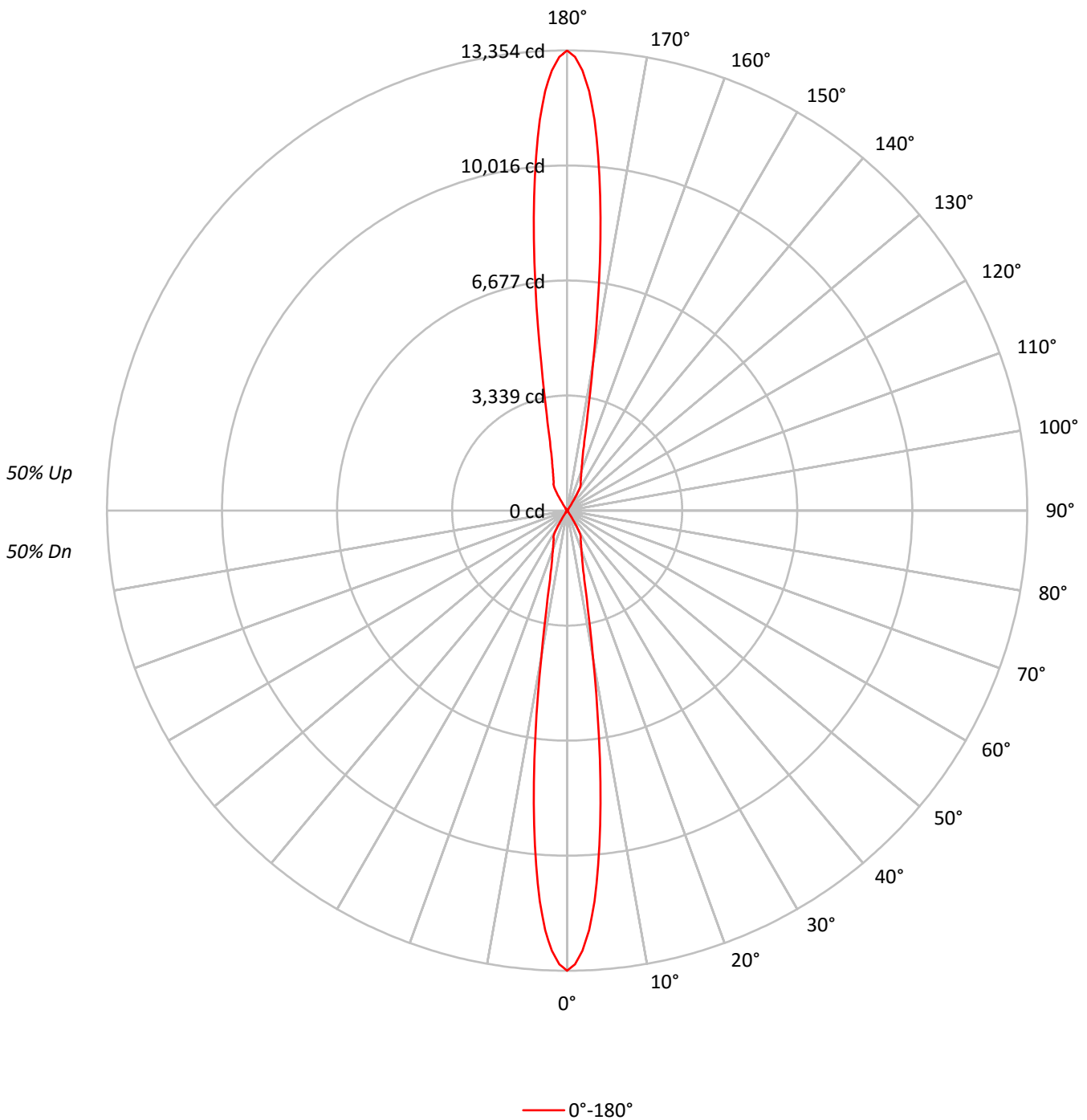
Input Watts (W): 57.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	97	94	92	93	90	88	86	77	75	74		65	64	63		54	53	53	48
2	94	89	85	81	87	83	79	76	72	69	67		61	60	58		52	51	50	46
3	89	82	77	72	83	77	72	69	67	64	61		58	56	54		50	48	47	44
4	84	76	70	66	78	72	67	63	63	60	57		55	53	51		48	46	45	42
5	79	71	65	61	74	67	62	58	60	56	53		53	50	48		46	45	43	41
6	75	67	61	56	71	63	58	54	57	53	50		50	48	46		45	43	42	39
7	72	63	57	53	67	60	54	51	54	50	47		48	46	44		43	42	40	38
8	68	59	54	50	65	57	52	48	51	48	45		47	44	42		42	40	39	37
9	66	56	51	47	62	54	49	46	49	46	43		45	42	40		41	39	38	36
10	63	54	48	45	59	52	47	43	47	44	41		43	41	39		40	38	36	35

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

	0°
0°	1647108
5°	1279931
10°	542388
15°	231885
20°	158341
25°	126189
30°	94344
35°	12498
40°	6682
45°	4867
50°	5219
55°	5677
60°	6340
65°	7267
70°	8439
75°	10056
80°	11791
85°	11746



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	780.1	19.6
10°-20°	559.0	14.0
20°-30°	431.3	10.8
30°-40°	119.5	3.0
40°-50°	23.2	0.6
50°-60°	23.7	0.6
60°-70°	24.6	0.6
70°-80°	22.0	0.6
80°-90°	9.3	0.2
90°-100°	9.3	0.2
100°-110°	22.0	0.6
110°-120°	24.6	0.6
120°-130°	23.7	0.6
130°-140°	23.2	0.6
140°-150°	119.5	3.0
150°-160°	431.3	10.8
160°-170°	559.0	14.0
170°-180°	780.1	19.6
0°-30°	1770.4	44.4
0°-40°	1890.0	47.4
0°-60°	1936.8	48.6
0°-90°	1992.7	50.0
90°-120°	55.9	1.4
90°-150°	222.3	5.6
90°-180°	1993.0	50.0
0°-180°	3985.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	13354	
5°	10337	780
15°	1816	559
25°	927	431
35°	83	120
45°	28	23
55°	26	24
65°	25	25
75°	21	22
85°	8	9
90°	0	1
95°	8	9
105°	21	22
115°	25	25
125°	26	24
135°	28	23
145°	83	120
155°	927	431
165°	1816	559
175°	10337	780
180°	13354	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	13353.6
1°	13166.5
2°	12778.7
3°	12189.5
4°	11370.1
5°	10337.3
6°	9170.9
7°	7939.7
8°	6606.6
9°	5398.0
10°	4330.5
11°	3489.3
12°	2851.0
13°	2389.3
14°	2062.6
15°	1815.9
16°	1632.6
17°	1495.3
18°	1387.4
19°	1293.1
20°	1206.3
22.5°	1044.9
25°	927.2
26°	897.0
27°	871.4
28°	840.4
29°	773.3
30°	662.4
32.5°	318.4
35°	83.0
37.5°	53.6
40°	41.5
42.5°	30.9
45°	27.9
47.5°	27.2
50°	27.2
52.5°	26.4
55°	26.4
57.5°	26.4
60°	25.7
62.5°	25.7
65°	24.9
67.5°	24.1
70°	23.4
72.5°	22.6



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**CANDELA DISTRIBUTION (continued):**

	0°
75°	21.1
77.5°	19.6
80°	16.6
82.5°	13.6
85°	8.3
87.5°	3.8
90°	0.0
92.5°	3.8
95°	8.3
97.5°	13.6
100°	16.6
102.5°	19.6
105°	21.1
107.5°	22.6
110°	23.4
112.5°	24.1
115°	24.9
117.5°	25.7
120°	25.7
122.5°	26.4
125°	26.4
127.5°	26.4
130°	27.2
132.5°	27.2
135°	27.9
137.5°	30.9
140°	41.5
142.5°	53.6
145°	83.0
147.5°	318.4
150°	662.4
151°	773.3
152°	840.4
153°	871.4
154°	897.0
155°	927.2
157.5°	1044.9
160°	1206.3
161°	1293.1
162°	1387.4
163°	1495.3
164°	1632.6
165°	1815.9
166°	2062.6
167°	2389.3



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**CANDELA DISTRIBUTION (continued):**

	0°
168°	2851.0
169°	3489.3
170°	4330.5
171°	5398.0
172°	6606.6
173°	7939.7
174°	9170.9
175°	10337.3
176°	11370.1
177°	12189.5
178°	12778.7
179°	13166.5
180°	13353.6

(END OF REPORT)