

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: P221759

Luminaire Tested: **9004-W2-[RW, RI]-LED2797-S-BK-L3-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221759  
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-L3-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: 3471.0 lumens  
Efficiency: N/A  
Efficacy: 60.9 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

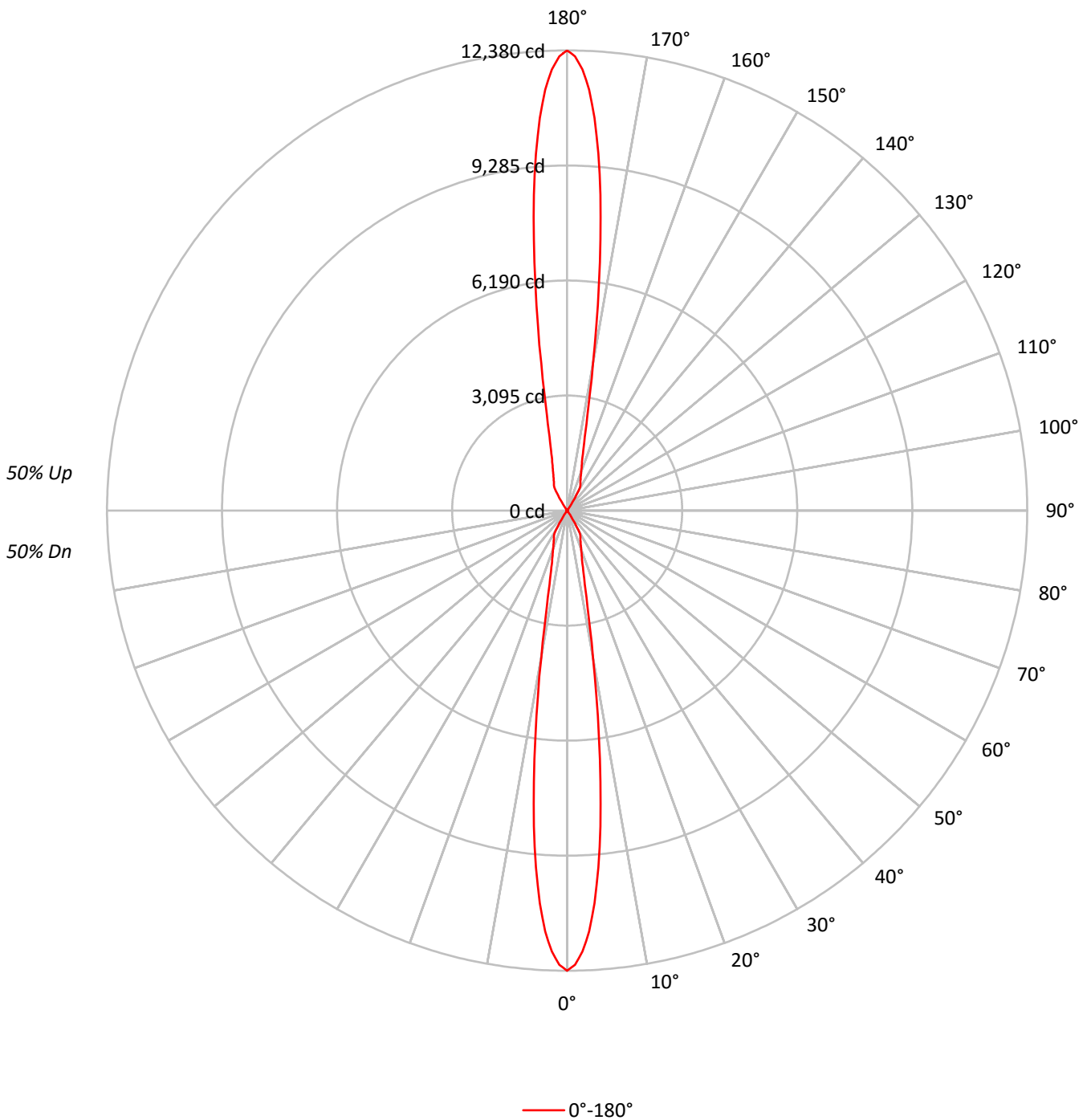
Input Watts (W): 57  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P221759

CATALOG NUMBER: 9004-W2-[RW, RI]-LED2797-S-BK-L3-UNV

### Luminous Intensity Polar Plot





TEST NUMBER: P221759

CATALOG NUMBER: 9004-W2-[RW, RI]-LED2797-S-BK-L3-UNV

**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°	1527044
5°	1193049
10°	502534
15°	212960
20°	144191
25°	114485
30°	84758
35°	7679
40°	2818
45°	855
50°	672
55°	753
60°	518
65°	409
70°	252
75°	334
80°	497
85°	0



TEST NUMBER: P221759

CATALOG NUMBER: 9004-W2-[RW, RI]-LED2797-S-BK-L3-UNV

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	725.3	20.9
10°-20°	512.5	14.8
20°-30°	391.3	11.3
30°-40°	95.9	2.8
40°-50°	5.2	0.1
50°-60°	2.8	0.1
60°-70°	1.4	0.0
70°-80°	0.7	0.0
80°-90°	0.3	0.0
90°-100°	0.5	0.0
100°-110°	0.7	0.0
110°-120°	1.4	0.0
120°-130°	2.8	0.1
130°-140°	5.2	0.1
140°-150°	95.9	2.8
150°-160°	391.3	11.3
160°-170°	512.5	14.8
170°-180°	725.3	20.9
0°-30°	1629.2	46.9
0°-40°	1725.1	49.7
0°-60°	1733.1	49.9
0°-90°	1735.5	50.0
90°-120°	2.6	0.1
90°-150°	106.5	3.1
90°-180°	1736.0	50.0
0°-180°	3471.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	12380	
5°	9636	725
15°	1668	513
25°	841	391
35°	51	96
45°	5	5
55°	4	3
65°	1	1
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	1	1
125°	4	3
135°	5	5
145°	51	96
155°	841	391
165°	1668	513
175°	9636	725
180°	12380	



TEST NUMBER: P221759

CATALOG NUMBER: 9004-W2-[RW, RI]-LED2797-S-BK-L3-UNV

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	12380.2
1°	12221.4
2°	11871.8
3°	11335.5
4°	10584.5
5°	9635.6
6°	8544.8
7°	7346.3
8°	6139.4
9°	5034.6
10°	4012.3
11°	3202.5
12°	2609.6
13°	2190.0
14°	1891.5
15°	1667.7
16°	1495.7
17°	1370.5
18°	1271.2
19°	1178.2
20°	1098.5
22.5°	947.5
25°	841.2
26°	812.5
27°	788.8
28°	765.0
29°	702.0
30°	595.1
32.5°	267.8
35°	51.0
37.5°	28.0
40°	17.5
42.5°	7.7
45°	4.9
47.5°	4.2
50°	3.5
52.5°	3.5
55°	3.5
57.5°	2.8
60°	2.1
62.5°	2.1
65°	1.4
67.5°	0.7
70°	0.7
72.5°	0.7



TEST NUMBER: P221759

CATALOG NUMBER: 9004-W2-[RW, RI]-LED2797-S-BK-L3-UNV

**CANDELA DISTRIBUTION (continued):**

	0°
75°	0.7
77.5°	0.7
80°	0.7
82.5°	0.7
85°	0.0
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.7
100°	0.7
102.5°	0.7
105°	0.7
107.5°	0.7
110°	0.7
112.5°	0.7
115°	1.4
117.5°	2.1
120°	2.1
122.5°	2.8
125°	3.5
127.5°	3.5
130°	3.5
132.5°	4.2
135°	4.9
137.5°	7.7
140°	17.5
142.5°	28.0
145°	51.0
147.5°	267.8
150°	595.1
151°	702.0
152°	765.0
153°	788.8
154°	812.5
155°	841.2
157.5°	947.5
160°	1098.5
161°	1178.2
162°	1271.2
163°	1370.5
164°	1495.7
165°	1667.7
166°	1891.5
167°	2190.0



TEST NUMBER: P221759

CATALOG NUMBER: 9004-W2-[RW, RI]-LED2797-S-BK-L3-UNV

**CANDELA DISTRIBUTION (continued):**

	0°
168°	2609.6
169°	3202.5
170°	4012.3
171°	5034.6
172°	6139.4
173°	7346.3
174°	8544.8
175°	9635.6
176°	10584.5
177°	11335.5
178°	11871.8
179°	12221.4
180°	12380.2

(END OF REPORT)