

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: P221973

Luminaire Tested: **9004-W2-FL-LED2790-S-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221973
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-LED2790-S-BK-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, SPOT OPTIC, BLACK HOUSING.
Light Source: (1) 2700K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

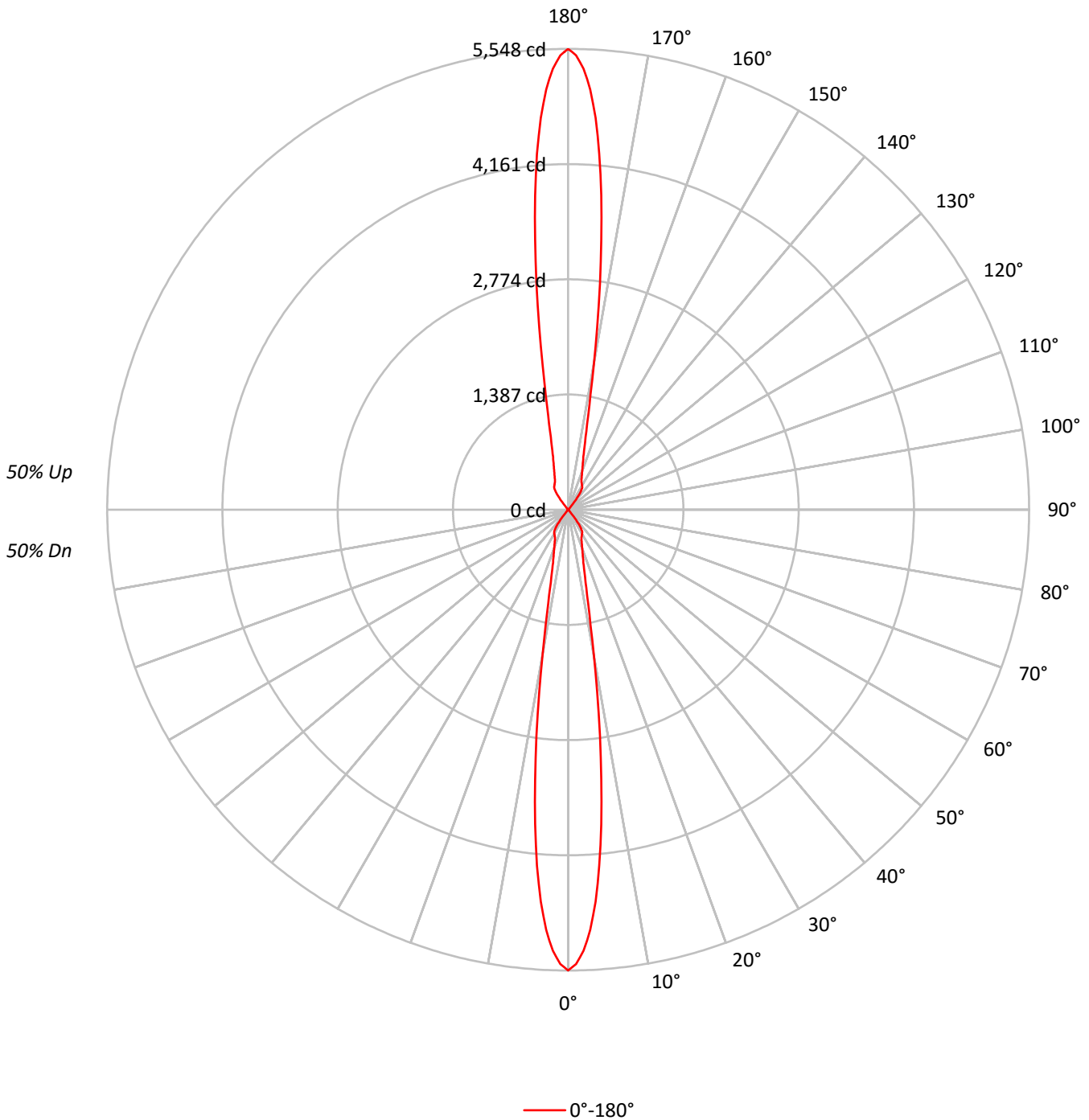
Lumens per Lamp: N/A
Luminaire Lumens: 1766.9 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Spacing Criteria (0/90/45): 0.27 / 0.27 / 0.27
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 19.7
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



TEST NUMBER: P221973
CATALOG NUMBER: 9004-W2-FL-LED2790-S-BK-L1-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P221973

CATALOG NUMBER: 9004-W2-FL-LED2790-S-BK-L1-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	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°	684272
5°	532635
10°	221840
15°	93793
20°	64371
25°	51377
30°	47485
35°	38849
40°	8180
45°	1866
50°	672
55°	538
60°	321
65°	175
70°	108
75°	143
80°	0
85°	0



TEST NUMBER: P221973

CATALOG NUMBER: 9004-W2-FL-LED2790-S-BK-L1-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.3	18.3
10°-20°	226.6	12.8
20°-30°	178.6	10.1
30°-40°	140.6	8.0
40°-50°	11.4	0.6
50°-60°	2.2	0.1
60°-70°	0.6	0.0
70°-80°	0.3	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.3	0.0
110°-120°	0.6	0.0
120°-130°	2.2	0.1
130°-140°	11.4	0.6
140°-150°	140.6	8.0
150°-160°	178.6	10.1
160°-170°	226.6	12.8
170°-180°	323.3	18.3
0°-30°	728.4	41.2
0°-40°	869.0	49.2
0°-60°	882.6	50.0
0°-90°	883.5	50.0
90°-120°	0.8	0.0
90°-150°	155.0	8.8
90°-180°	883.0	50.0
0°-180°	1766.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5548	
5°	4302	323
15°	734	227
25°	378	179
35°	258	141
45°	11	11
55°	2	2
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	1	1
125°	2	2
135°	11	11
145°	258	141
155°	378	179
165°	734	227
175°	4302	323
180°	5548	



TEST NUMBER: P221973

CATALOG NUMBER: 9004-W2-FL-LED2790-S-BK-L1-UNV

CANDELA DISTRIBUTION (FULL):

0°	
0°	5547.6
1°	5471.3
2°	5312.7
3°	5066.7
4°	4730.1
5°	4301.8
6°	3807.3
7°	3273.1
8°	2748.9
9°	2221.3
10°	1771.2
11°	1412.0
12°	1151.5
13°	967.0
14°	833.2
15°	734.5
16°	660.4
17°	606.2
18°	564.9
19°	525.4
20°	490.4
21°	461.4
22°	435.5
23°	412.8
24°	393.0
25°	377.5
26°	365.8
27°	357.0
28°	348.5
29°	340.9
30°	333.4
32.5°	314.4
35°	258.0
37.5°	153.9
40°	50.8
42.5°	15.1
45°	10.7
47.5°	7.6
50°	3.5
52.5°	3.2
55°	2.5
57.5°	1.9
60°	1.3
62.5°	0.6
65°	0.6

TEST NUMBER: P221973

CATALOG NUMBER: 9004-W2-FL-LED2790-S-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.3
70°	0.3
72.5°	0.3
75°	0.3
77.5°	0.3
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°	0.3
105°	0.3
107.5°	0.3
110°	0.3
112.5°	0.3
115°	0.6
117.5°	0.6
120°	1.3
122.5°	1.9
125°	2.5
127.5°	3.2
130°	3.5
132.5°	7.6
135°	10.7
137.5°	15.1
140°	50.8
142.5°	153.9
145°	258.0
147.5°	314.4
150°	333.4
151°	340.9
152°	348.5
153°	357.0
154°	365.8
155°	377.5
156°	393.0
157°	412.8
158°	435.5
159°	461.4
160°	490.4
161°	525.4



TEST NUMBER: P221973

CATALOG NUMBER: 9004-W2-FL-LED2790-S-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	0°
162°	564.9
163°	606.2
164°	660.4
165°	734.5
166°	833.2
167°	967.0
168°	1151.5
169°	1412.0
170°	1771.2
171°	2221.3
172°	2748.9
173°	3273.1
174°	3807.3
175°	4301.8
176°	4730.1
177°	5066.7
178°	5312.7
179°	5471.3
180°	5547.6

(END OF REPORT)