

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: P221722

Luminaire Tested: **9004-W2-[RW, RI]-LED2790-F-BK-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221722
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29493)
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-F-BK-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 2700K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2925.1 lumens
Efficiency: N/A
Efficacy: 72.8 lumens/watt
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.56
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

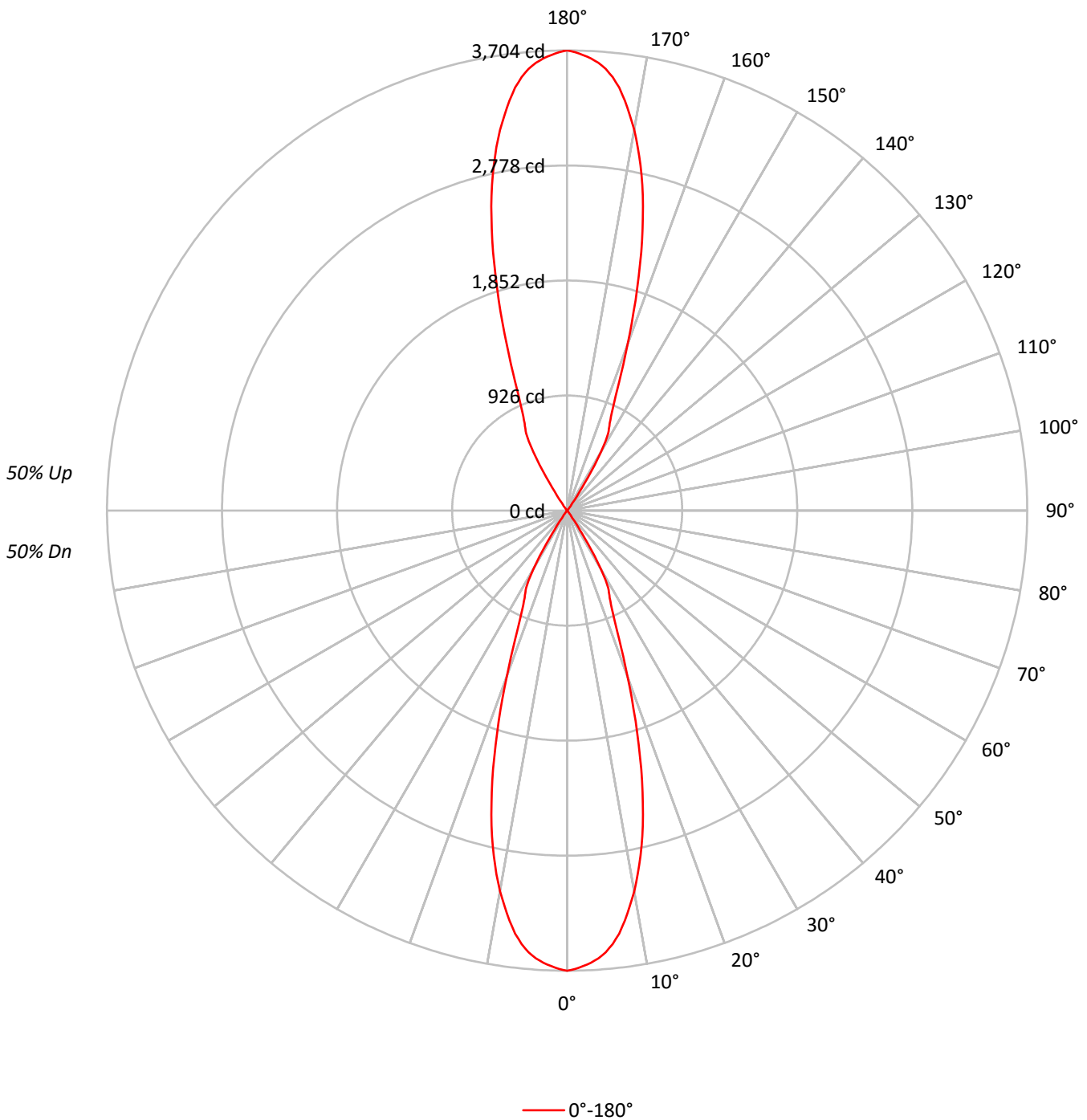
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P221722

CATALOG NUMBER: 9004-W2-[RW, RI]-LED2790-F-BK-L2-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P221722

CATALOG NUMBER: 9004-W2-[RW, RI]-LED2790-F-BK-L2-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	53	53	48				
2	95	89	85	81	88	83	79	76	72	69	67	61	60	58	52	51	50	46				
3	89	82	77	73	83	77	72	69	67	64	61	58	56	54	50	49	47	44				
4	84	76	70	66	78	71	66	63	63	59	57	55	53	51	48	46	45	42				
5	79	71	65	60	74	67	61	58	59	55	53	52	50	48	46	44	43	40				
6	75	66	60	55	70	62	57	53	56	52	49	50	47	45	44	42	41	38				
7	71	62	56	52	67	59	53	50	53	49	46	48	45	43	42	41	39	37				
8	68	58	52	48	64	55	50	47	50	46	44	45	43	40	41	39	37	35				
9	64	55	49	45	61	52	47	44	48	44	41	43	41	39	39	37	36	34				
10	61	52	46	43	58	50	45	41	46	42	39	42	39	37	38	36	35	33				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	456897
5°	441766
10°	389548
15°	299896
20°	186050
25°	113804
30°	77466
35°	10254
40°	2914
45°	715
50°	556
55°	366
60°	296
65°	350
70°	216
75°	0
80°	0
85°	0



TEST NUMBER: P221722

CATALOG NUMBER: 9004-W2-[RW, RI]-LED2790-F-BK-L2-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.9	11.1
10°-20°	630.0	21.5
20°-30°	404.0	13.8
30°-40°	95.2	3.3
40°-50°	4.5	0.2
50°-60°	1.7	0.1
60°-70°	1.0	0.0
70°-80°	0.2	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.4	0.0
110°-120°	1.0	0.0
120°-130°	1.7	0.1
130°-140°	4.5	0.2
140°-150°	95.2	3.3
150°-160°	404.0	13.8
160°-170°	630.0	21.5
170°-180°	325.9	11.1
0°-30°	1359.9	46.5
0°-40°	1455.1	49.7
0°-60°	1461.3	50.0
0°-90°	1462.5	50.0
90°-120°	1.4	0.0
90°-150°	102.8	3.5
90°-180°	1463.0	50.0
0°-180°	2925.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3704	
5°	3568	326
15°	2348	630
25°	836	404
35°	68	95
45°	4	5
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°	4	5
145°	68	95
155°	836	404
165°	2348	630
175°	3568	326
180°	3704	



TEST NUMBER: P221722

CATALOG NUMBER: 9004-W2-[RW, RI]-LED2790-F-BK-L2-UNV

CANDELA DISTRIBUTION (FULL):

0°	
0°	3704.2
1°	3690.8
2°	3669.3
3°	3644.8
4°	3612.8
5°	3567.9
6°	3507.9
7°	3431.7
8°	3332.7
9°	3224.9
10°	3110.2
11°	2980.4
12°	2841.2
13°	2690.4
14°	2523.2
15°	2348.5
16°	2163.4
17°	1971.8
18°	1780.8
19°	1595.6
20°	1417.4
21°	1259.0
22°	1117.5
23°	998.7
24°	908.4
25°	836.2
26°	782.1
27°	740.1
28°	702.9
29°	639.4
30°	543.9
32.5°	259.7
35°	68.1
37.5°	36.1
40°	18.1
42.5°	5.8
45°	4.1
47.5°	3.5
50°	2.9
52.5°	2.3
55°	1.7
57.5°	1.7
60°	1.2
62.5°	1.2
65°	1.2



TEST NUMBER: P221722

CATALOG NUMBER: 9004-W2-[RW, RI]-LED2790-F-BK-L2-UNV

CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.6
70°	0.6
72.5°	0.6
75°	0.0
77.5°	0.0
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°	0.0
105°	0.0
107.5°	0.6
110°	0.6
112.5°	0.6
115°	1.2
117.5°	1.2
120°	1.2
122.5°	1.7
125°	1.7
127.5°	2.3
130°	2.9
132.5°	3.5
135°	4.1
137.5°	5.8
140°	18.1
142.5°	36.1
145°	68.1
147.5°	259.7
150°	543.9
151°	639.4
152°	702.9
153°	740.1
154°	782.1
155°	836.2
156°	908.4
157°	998.7
158°	1117.5
159°	1259.0
160°	1417.4
161°	1595.6



TEST NUMBER: P221722

CATALOG NUMBER: 9004-W2-[RW, RI]-LED2790-F-BK-L2-UNV

CANDELA DISTRIBUTION (continued):

	0°
162°	1780.8
163°	1971.8
164°	2163.4
165°	2348.5
166°	2523.2
167°	2690.4
168°	2841.2
169°	2980.4
170°	3110.2
171°	3224.9
172°	3332.7
173°	3431.7
174°	3507.9
175°	3567.9
176°	3612.8
177°	3644.8
178°	3669.3
179°	3690.8
180°	3704.2

(END OF REPORT)