

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: P221727

Luminaire Tested: **9004-W2-[RW, RI]-LED2790-M-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221727
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29492)
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-M-BK-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, MEDIUM FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 2700K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1561.0 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

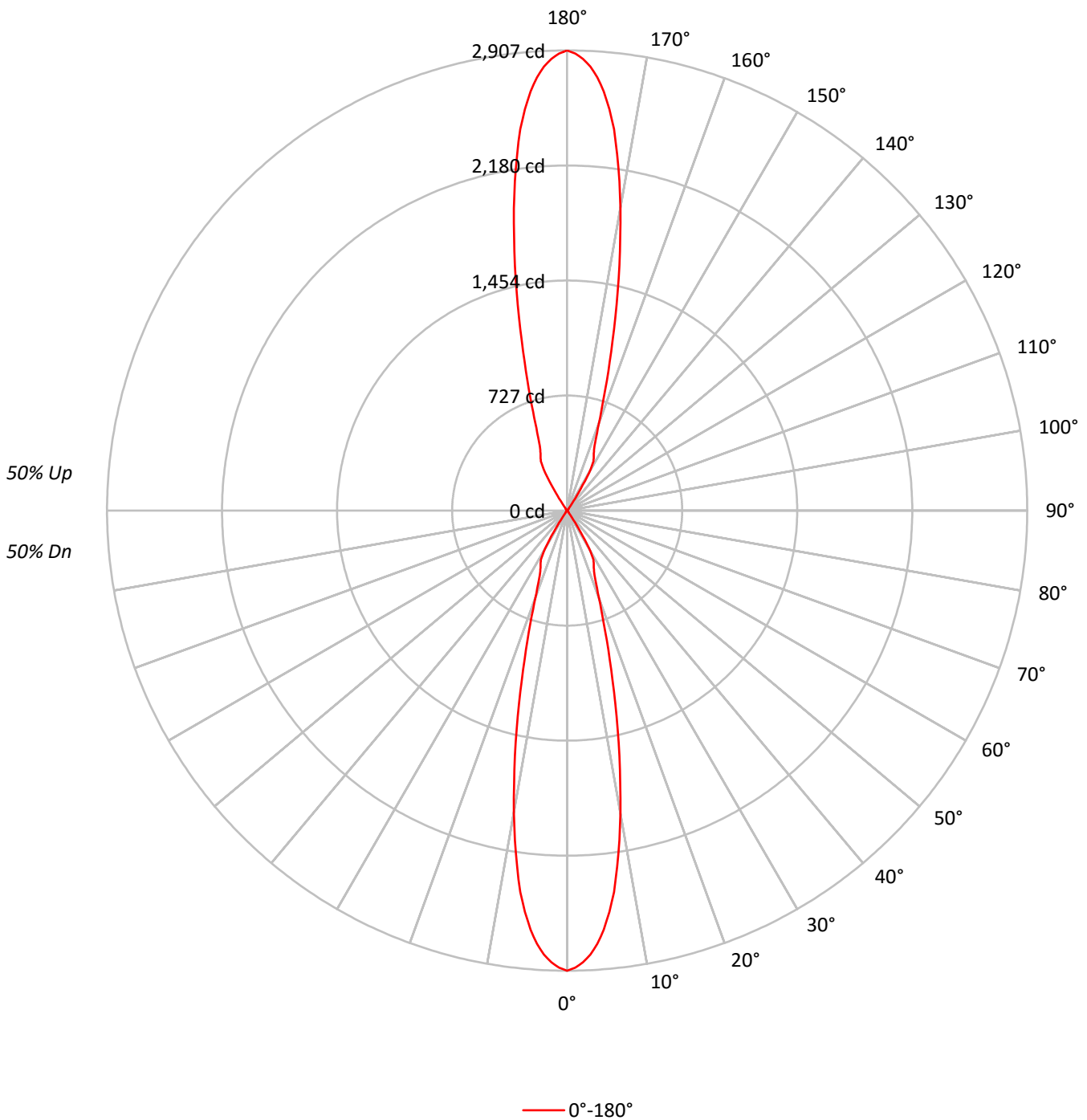
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P221727

CATALOG NUMBER: 9004-W2-[RW, RI]-LED2790-M-BK-L1-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P221727

CATALOG NUMBER: 9004-W2-[RW, RI]-LED2790-M-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	98	95	92	93	91	88	86	77	76	74	65	64	63	54	54	53	48				
2	95	89	85	81	88	83	80	77	72	70	67	62	60	59	52	51	50	46				
3	89	82	77	73	83	77	73	69	68	64	62	59	57	55	50	49	48	44				
4	84	76	71	66	79	72	67	63	64	60	57	56	53	51	48	47	46	43				
5	80	71	65	61	75	67	62	58	60	56	53	53	51	49	47	45	44	41				
6	76	67	61	57	71	63	58	54	57	53	50	51	48	46	45	43	42	40				
7	72	63	57	53	68	60	55	51	54	50	47	49	46	44	43	42	40	38				
8	68	59	53	50	64	57	51	48	51	48	45	47	44	42	42	40	39	37				
9	65	56	51	47	62	54	49	45	49	45	43	45	42	40	41	39	37	36				
10	62	53	48	44	59	51	46	43	47	43	41	43	40	38	39	37	36	34				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	358590
5°	328994
10°	242731
15°	141680
20°	76841
25°	54303
30°	39353
35°	4894
40°	1675
45°	663
50°	422
55°	344
60°	222
65°	175
70°	108
75°	143
80°	213
85°	0



TEST NUMBER: P221727

CATALOG NUMBER: 9004-W2-[RW, RI]-LED2790-M-BK-L1-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.4	14.8
10°-20°	309.0	19.8
20°-30°	187.4	12.0
30°-40°	48.0	3.1
40°-50°	3.4	0.2
50°-60°	1.4	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°	1.4	0.1
130°-140°	3.4	0.2
140°-150°	48.0	3.1
150°-160°	187.4	12.0
160°-170°	309.0	19.8
170°-180°	230.4	14.8
0°-30°	726.8	46.6
0°-40°	774.7	49.6
0°-60°	779.6	49.9
0°-90°	780.5	50.0
90°-120°	0.9	0.1
90°-150°	53.7	3.4
90°-180°	781.0	50.0
0°-180°	1561.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2907	
5°	2657	230
15°	1110	309
25°	399	187
35°	32	48
45°	4	3
55°	2	1
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	1	1
125°	2	1
135°	4	3
145°	32	48
155°	399	187
165°	1110	309
175°	2657	230
180°	2907	



TEST NUMBER: P221727

CATALOG NUMBER: 9004-W2-[RW, RI]-LED2790-M-BK-L1-UNV

CANDELA DISTRIBUTION (FULL):

0°	
0°	2907.2
1°	2888.6
2°	2855.5
3°	2808.2
4°	2743.5
5°	2657.1
6°	2549.3
7°	2427.8
8°	2272.7
9°	2107.1
10°	1938.0
11°	1760.2
12°	1585.4
13°	1418.3
14°	1257.8
15°	1109.5
16°	977.1
17°	857.5
18°	750.9
19°	661.0
20°	585.4
21°	525.7
22°	478.4
23°	443.4
24°	418.5
25°	399.0
26°	383.2
27°	369.6
28°	353.5
29°	324.2
30°	276.3
32.5°	131.5
35°	32.5
37.5°	17.7
40°	10.4
42.5°	4.7
45°	3.8
47.5°	3.2
50°	2.2
52.5°	1.9
55°	1.6
57.5°	1.3
60°	0.9
62.5°	0.9
65°	0.6



TEST NUMBER: P221727

CATALOG NUMBER: 9004-W2-[RW, RI]-LED2790-M-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°	0.3
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°	0.3
102.5°	0.3
105°	0.3
107.5°	0.3
110°	0.3
112.5°	0.3
115°	0.6
117.5°	0.9
120°	0.9
122.5°	1.3
125°	1.6
127.5°	1.9
130°	2.2
132.5°	3.2
135°	3.8
137.5°	4.7
140°	10.4
142.5°	17.7
145°	32.5
147.5°	131.5
150°	276.3
151°	324.2
152°	353.5
153°	369.6
154°	383.2
155°	399.0
156°	418.5
157°	443.4
158°	478.4
159°	525.7
160°	585.4
161°	661.0



TEST NUMBER: P221727

CATALOG NUMBER: 9004-W2-[RW, RI]-LED2790-M-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	0°
162°	750.9
163°	857.5
164°	977.1
165°	1109.5
166°	1257.8
167°	1418.3
168°	1585.4
169°	1760.2
170°	1938.0
171°	2107.1
172°	2272.7
173°	2427.8
174°	2549.3
175°	2657.1
176°	2743.5
177°	2808.2
178°	2855.5
179°	2888.6
180°	2907.2

(END OF REPORT)