

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: P221224

Luminaire Tested: **9002-W2-[RW, RI]-LED2790-W-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221224
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29412)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9002-W2-[RW, RI]-LED2790-W-WT-L1-UNV
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, RECESSED LENS, WIDE FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 2700K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1466.4 lumens
Efficiency: N/A
Efficacy: 73.3 lumens/watt
Spacing Criteria (0/90/45): 0.87 / 0.87 / 0.86
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: General Diffuse

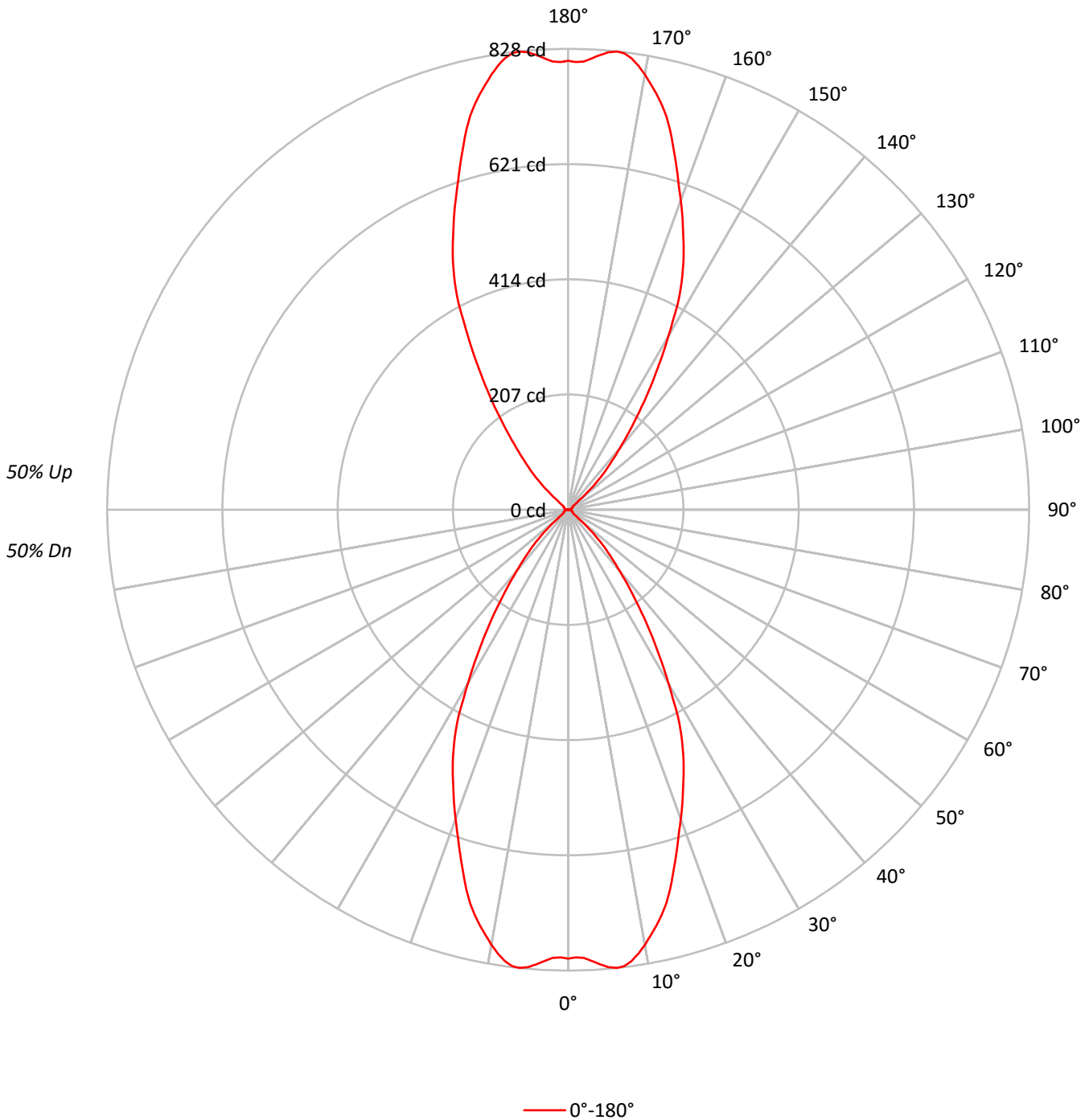
Input Watts (W): 20
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P221224

CATALOG NUMBER: 9002-W2-[RW, RI]-LED2790-W-WT-L1-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P221224

CATALOG NUMBER: 9002-W2-[RW, RI]-LED2790-W-WT-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	0
RCR																				
0	107	107	107	107	99	99	99	99	83	83	83		69	69	69		56	56	56	50
1	100	96	93	90	92	89	87	84	76	74	73		64	63	62		53	52	51	46
2	93	87	82	78	86	81	77	73	70	67	64		59	57	55		50	48	47	43
3	87	79	73	68	80	74	69	65	64	60	57		55	52	50		46	45	43	40
4	81	72	66	61	75	67	62	58	59	55	52		51	48	46		44	42	40	37
5	75	66	59	54	70	62	56	52	54	50	47		47	44	42		41	39	37	34
6	71	61	54	49	66	57	51	47	50	46	43		44	41	38		39	36	34	32
7	66	56	49	44	62	53	47	43	47	42	39		41	38	36		36	34	32	30
8	62	52	45	41	58	49	43	39	44	39	36		39	35	33		34	32	30	28
9	59	48	42	37	55	46	40	36	41	36	33		37	33	31		32	30	28	26
10	55	45	39	34	52	43	37	33	38	34	31		34	31	29		31	28	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	398009
5°	408543
10°	397686
15°	360971
20°	310196
25°	266367
30°	205379
35°	143228
40°	92680
45°	57075
50°	18038
55°	9118
60°	8980
65°	9690
70°	9809
75°	11628
80°	10797
85°	13020



TEST NUMBER: P221224

CATALOG NUMBER: 9002-W2-[RW, RI]-LED2790-W-WT-L1-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.9	5.3
10°-20°	195.3	13.3
20°-30°	221.0	15.1
30°-40°	150.1	10.2
40°-50°	62.0	4.2
50°-60°	10.7	0.7
60°-70°	8.0	0.5
70°-80°	6.0	0.4
80°-90°	2.2	0.1
90°-100°	2.2	0.1
100°-110°	6.0	0.4
110°-120°	8.0	0.5
120°-130°	10.7	0.7
130°-140°	62.0	4.2
140°-150°	150.1	10.2
150°-160°	221.0	15.1
160°-170°	195.3	13.3
170°-180°	77.9	5.3
0°-30°	494.2	33.7
0°-40°	644.3	43.9
0°-60°	717.0	48.9
0°-90°	733.2	50.0
90°-120°	16.2	1.1
90°-150°	238.9	16.3
90°-180°	733.0	50.0
0°-180°	1466.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	807	
5°	825	78
15°	707	195
25°	489	221
35°	238	150
45°	82	62
55°	11	11
65°	8	8
75°	6	6
85°	2	2
90°	0	0
95°	2	2
105°	6	6
115°	8	8
125°	11	11
135°	82	62
145°	238	150
155°	489	221
165°	707	195
175°	825	78
180°	807	



TEST NUMBER: P221224

CATALOG NUMBER: 9002-W2-[RW, RI]-LED2790-W-WT-L1-UNV

CANDELA DISTRIBUTION (FULL):

0°	
0°	806.7
1°	804.4
2°	805.9
3°	812.0
4°	818.8
5°	824.9
6°	827.9
7°	826.4
8°	818.8
9°	807.4
10°	793.8
11°	778.6
12°	763.5
13°	746.8
14°	728.7
15°	706.7
16°	682.5
17°	658.2
18°	634.7
19°	612.0
20°	590.8
21°	571.1
22°	549.9
23°	529.4
24°	509.8
25°	489.3
26°	468.1
27°	444.6
28°	418.9
29°	387.8
30°	360.5
32.5°	295.4
35°	237.8
37.5°	187.1
40°	143.9
42.5°	110.6
45°	81.8
47.5°	50.7
50°	23.5
52.5°	11.4
55°	10.6
57.5°	9.8
60°	9.1
62.5°	8.3
65°	8.3



TEST NUMBER: P221224

CATALOG NUMBER: 9002-W2-[RW, RI]-LED2790-W-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

	0°
67.5°	7.6
70°	6.8
72.5°	6.1
75°	6.1
77.5°	5.3
80°	3.8
82.5°	3.0
85°	2.3
87.5°	0.8
90°	0.0
92.5°	0.8
95°	2.3
97.5°	3.0
100°	3.8
102.5°	5.3
105°	6.1
107.5°	6.1
110°	6.8
112.5°	7.6
115°	8.3
117.5°	8.3
120°	9.1
122.5°	9.8
125°	10.6
127.5°	11.4
130°	23.5
132.5°	50.7
135°	81.8
137.5°	110.6
140°	143.9
142.5°	187.1
145°	237.8
147.5°	295.4
150°	360.5
151°	387.8
152°	418.9
153°	444.6
154°	468.1
155°	489.3
156°	509.8
157°	529.4
158°	549.9
159°	571.1
160°	590.8
161°	612.0



TEST NUMBER: P221224

CATALOG NUMBER: 9002-W2-[RW, RI]-LED2790-W-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

	0°
162°	634.7
163°	658.2
164°	682.5
165°	706.7
166°	728.7
167°	746.8
168°	763.5
169°	778.6
170°	793.8
171°	807.4
172°	818.8
173°	826.4
174°	827.9
175°	824.9
176°	818.8
177°	812.0
178°	805.9
179°	804.4
180°	806.7

(END OF REPORT)