

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: P221742

Luminaire Tested: **9004-W2-[RW, RI]-LED2790-W-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221742
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29490)
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-W-WT-L1-UNV
Description: LUMIERE LANTERRA 9004 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: 1638.5 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.84 / 0.83
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

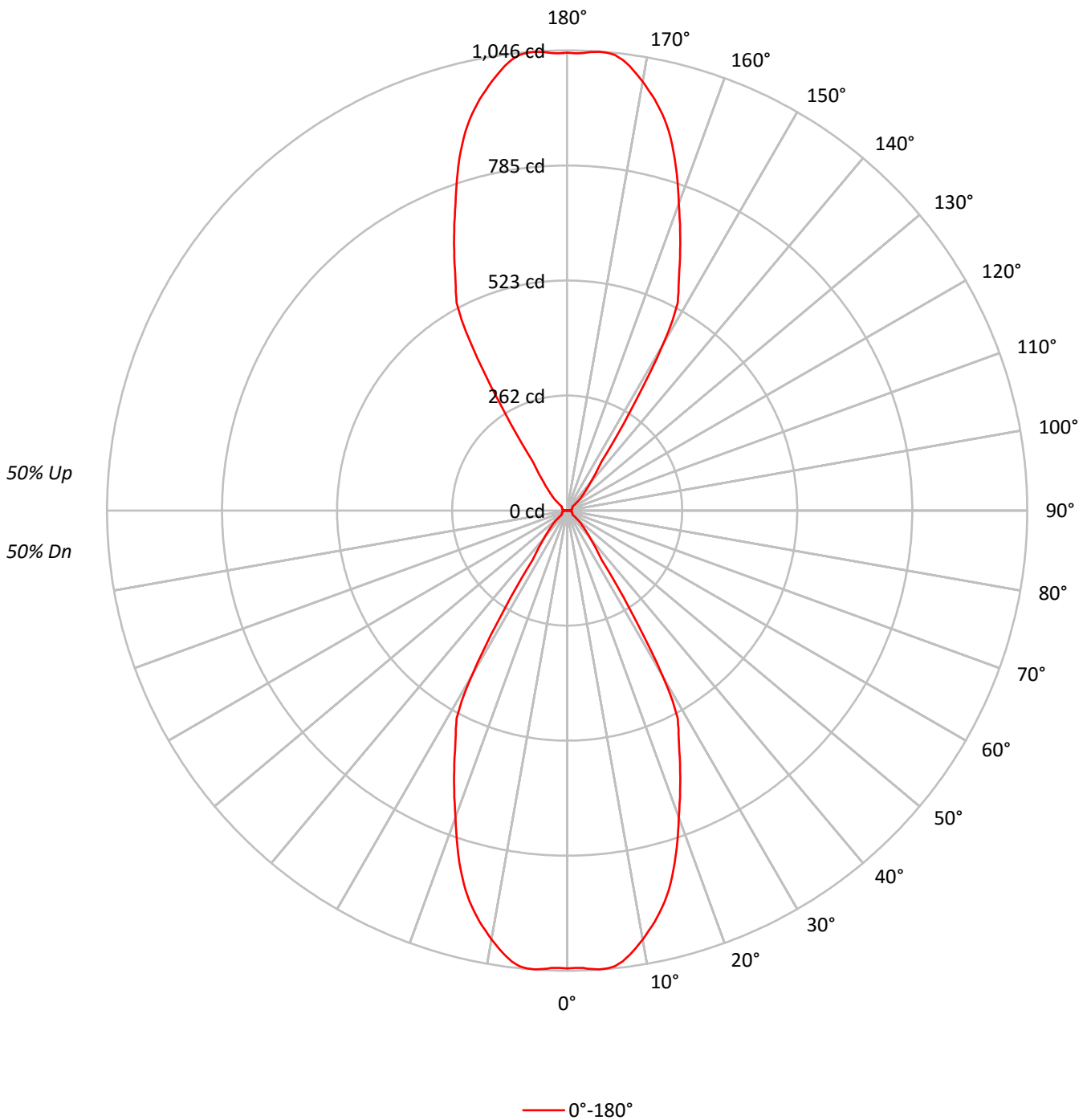
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P221742

CATALOG NUMBER: 9004-W2-[RW, RI]-LED2790-W-WT-L1-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P221742

CATALOG NUMBER: 9004-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	56		50	48	47	43
3	87	79	73	69	80	74	69	65	64	61	58		55	53	51		47	45	44	40
4	81	72	66	61	75	68	62	58	59	55	52		51	49	46		44	42	41	37
5	76	67	60	55	71	63	57	53	55	51	48		48	45	43		42	40	38	35
6	71	61	55	50	66	58	52	48	51	47	44		45	42	39		39	37	35	33
7	67	57	50	46	63	54	48	44	48	43	40		42	39	37		37	35	33	31
8	63	53	46	42	59	50	44	40	45	40	37		40	37	34		35	33	31	29
9	60	49	43	39	56	47	41	37	42	38	35		38	34	32		34	31	29	28
10	56	46	40	36	53	44	38	35	40	35	32		36	32	30		32	30	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	128341
5°	129376
10°	123958
15°	114059
20°	97488
25°	82066
30°	62027
35°	20614
40°	13107
45°	8914
50°	5200
55°	3118
60°	3429
65°	3765
70°	4328
75°	5242
80°	6251
85°	6227



TEST NUMBER: P221742

CATALOG NUMBER: 9004-W2-[RW, RI]-LED2790-W-WT-L1-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.9	6.0
10°-20°	246.3	15.0
20°-30°	275.9	16.8
30°-40°	115.4	7.0
40°-50°	40.1	2.4
50°-60°	14.6	0.9
60°-70°	12.8	0.8
70°-80°	11.4	0.7
80°-90°	4.8	0.3
90°-100°	4.8	0.3
100°-110°	11.4	0.7
110°-120°	12.8	0.8
120°-130°	14.6	0.9
130°-140°	40.1	2.4
140°-150°	115.4	7.0
150°-160°	275.9	16.8
160°-170°	246.3	15.0
170°-180°	97.9	6.0
0°-30°	620.2	37.9
0°-40°	735.6	44.9
0°-60°	790.2	48.2
0°-90°	819.3	50.0
90°-120°	29.0	1.8
90°-150°	199.1	12.1
90°-180°	819.0	50.0
0°-180°	1638.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1040	
5°	1045	98
15°	893	246
25°	603	276
35°	137	115
45°	51	40
55°	14	15
65°	13	13
75°	11	11
85°	4	5
90°	0	1
95°	4	5
105°	11	11
115°	13	13
125°	14	15
135°	51	40
145°	137	115
155°	603	276
165°	893	246
175°	1045	98
180°	1040	



TEST NUMBER: P221742

CATALOG NUMBER: 9004-W2-[RW, RI]-LED2790-W-WT-L1-UNV

CANDELA DISTRIBUTION (FULL):

0°	
0°	1040.5
1°	1039.5
2°	1040.5
3°	1043.6
4°	1045.5
5°	1044.9
6°	1041.1
7°	1032.9
8°	1020.0
9°	1005.4
10°	989.7
11°	973.0
12°	955.9
13°	936.7
14°	916.2
15°	893.2
16°	865.7
17°	837.0
18°	806.1
19°	774.0
20°	742.7
21°	713.7
22°	685.6
23°	657.9
24°	630.8
25°	603.0
26°	578.7
27°	557.3
28°	535.2
29°	494.8
30°	435.5
32.5°	261.1
35°	136.9
37.5°	104.7
40°	81.4
42.5°	63.4
45°	51.1
47.5°	41.0
50°	27.1
52.5°	16.1
55°	14.5
57.5°	14.2
60°	13.9
62.5°	13.6
65°	12.9



TEST NUMBER: P221742

CATALOG NUMBER: 9004-W2-[RW, RI]-LED2790-W-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

	0°
67.5°	12.3
70°	12.0
72.5°	11.7
75°	11.0
77.5°	10.1
80°	8.8
82.5°	6.9
85°	4.4
87.5°	1.9
90°	0.0
92.5°	1.9
95°	4.4
97.5°	6.9
100°	8.8
102.5°	10.1
105°	11.0
107.5°	11.7
110°	12.0
112.5°	12.3
115°	12.9
117.5°	13.6
120°	13.9
122.5°	14.2
125°	14.5
127.5°	16.1
130°	27.1
132.5°	41.0
135°	51.1
137.5°	63.4
140°	81.4
142.5°	104.7
145°	136.9
147.5°	261.1
150°	435.5
151°	494.8
152°	535.2
153°	557.3
154°	578.7
155°	603.0
156°	630.8
157°	657.9
158°	685.6
159°	713.7
160°	742.7
161°	774.0



TEST NUMBER: P221742

CATALOG NUMBER: 9004-W2-[RW, RI]-LED2790-W-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

	0°
162°	806.1
163°	837.0
164°	865.7
165°	893.2
166°	916.2
167°	936.7
168°	955.9
169°	973.0
170°	989.7
171°	1005.4
172°	1020.0
173°	1032.9
174°	1041.1
175°	1044.9
176°	1045.5
177°	1043.6
178°	1040.5
179°	1039.5
180°	1040.5

(END OF REPORT)