

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: P221743

Luminaire Tested: **9004-W2-[RW, RI]-LED2790-W-WT-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221743
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-L2-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: 3025.4 lumens
Efficiency: N/A
Efficacy: 75.3 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

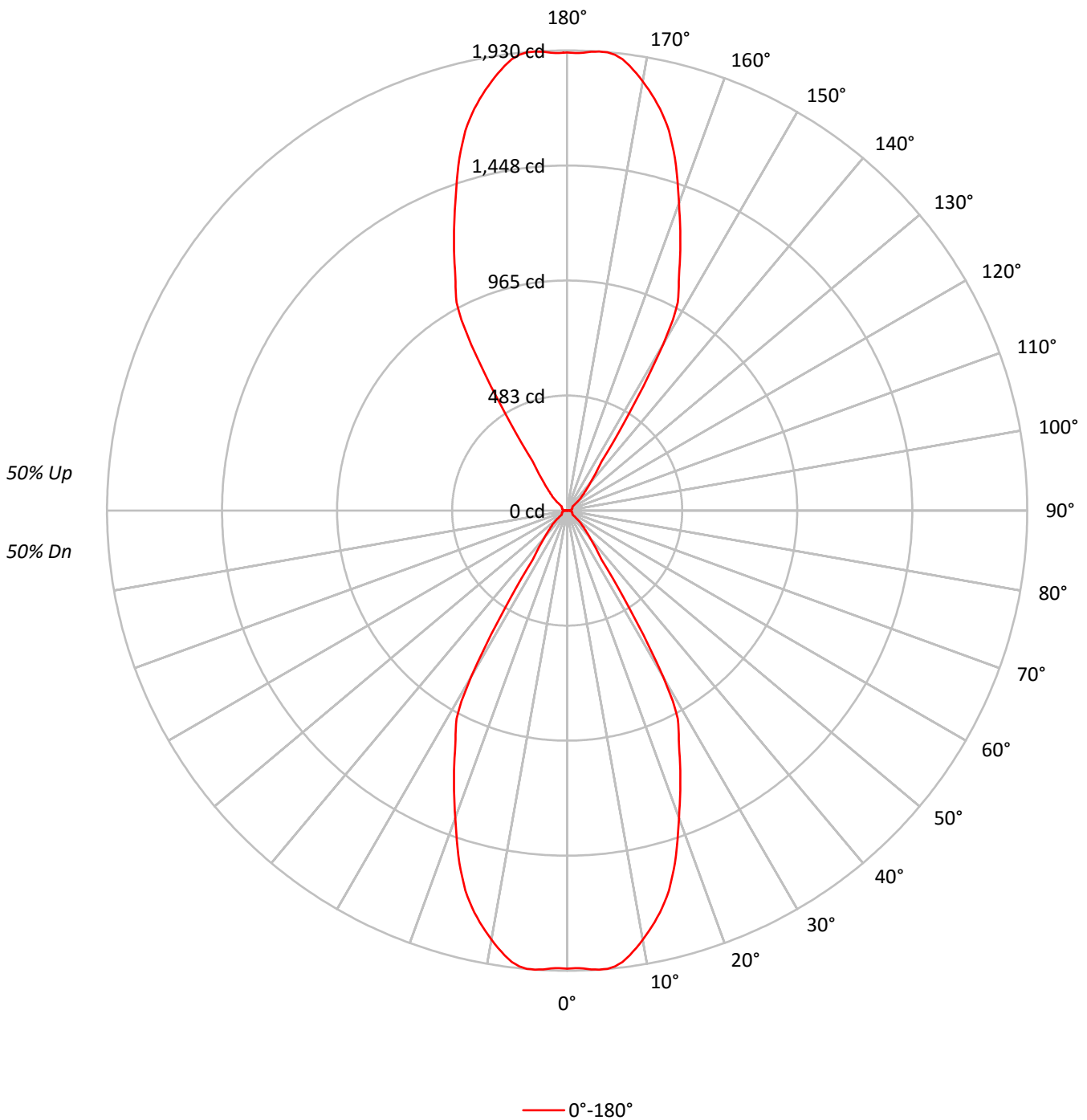
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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°	236959
5°	238880
10°	228879
15°	210598
20°	180012
25°	151530
30°	114540
35°	38051
40°	24185
45°	16449
50°	9614
55°	5763
60°	6315
65°	6975
70°	7970
75°	9722
80°	11578
85°	11605



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.9	6.0
10°-20°	454.9	15.0
20°-30°	509.5	16.8
30°-40°	213.1	7.0
40°-50°	74.0	2.4
50°-60°	26.9	0.9
60°-70°	23.7	0.8
70°-80°	21.1	0.7
80°-90°	8.9	0.3
90°-100°	8.9	0.3
100°-110°	21.1	0.7
110°-120°	23.7	0.8
120°-130°	26.9	0.9
130°-140°	74.0	2.4
140°-150°	213.1	7.0
150°-160°	509.5	16.8
160°-170°	454.9	15.0
170°-180°	180.9	6.0
0°-30°	1145.2	37.9
0°-40°	1358.2	44.9
0°-60°	1459.1	48.2
0°-90°	1512.7	50.0
90°-120°	53.6	1.8
90°-150°	367.5	12.1
90°-180°	1513.0	50.0
0°-180°	3025.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1921	
5°	1929	181
15°	1649	455
25°	1113	509
35°	253	213
45°	94	74
55°	27	27
65°	24	24
75°	20	21
85°	8	8
90°	0	1
95°	8	8
105°	20	21
115°	24	24
125°	27	27
135°	94	74
145°	253	213
155°	1113	509
165°	1649	455
175°	1929	181
180°	1921	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1921.1
1°	1919.4
2°	1921.1
3°	1926.9
4°	1930.4
5°	1929.3
6°	1922.3
7°	1907.1
8°	1883.3
9°	1856.5
10°	1827.4
11°	1796.5
12°	1765.0
13°	1729.5
14°	1691.7
15°	1649.2
16°	1598.5
17°	1545.5
18°	1488.4
19°	1429.0
20°	1371.4
21°	1317.8
22°	1266.0
23°	1214.7
24°	1164.7
25°	1113.4
26°	1068.6
27°	1029.0
28°	988.2
29°	913.7
30°	804.2
32.5°	482.2
35°	252.7
37.5°	193.3
40°	150.2
42.5°	117.0
45°	94.3
47.5°	75.7
50°	50.1
52.5°	29.7
55°	26.8
57.5°	26.2
60°	25.6
62.5°	25.0
65°	23.9



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	22.7
70°	22.1
72.5°	21.5
75°	20.4
77.5°	18.6
80°	16.3
82.5°	12.8
85°	8.2
87.5°	3.5
90°	0.0
92.5°	3.5
95°	8.2
97.5°	12.8
100°	16.3
102.5°	18.6
105°	20.4
107.5°	21.5
110°	22.1
112.5°	22.7
115°	23.9
117.5°	25.0
120°	25.6
122.5°	26.2
125°	26.8
127.5°	29.7
130°	50.1
132.5°	75.7
135°	94.3
137.5°	117.0
140°	150.2
142.5°	193.3
145°	252.7
147.5°	482.2
150°	804.2
151°	913.7
152°	988.2
153°	1029.0
154°	1068.6
155°	1113.4
156°	1164.7
157°	1214.7
158°	1266.0
159°	1317.8
160°	1371.4
161°	1429.0



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CANDELA DISTRIBUTION (continued):

	0°
162°	1488.4
163°	1545.5
164°	1598.5
165°	1649.2
166°	1691.7
167°	1729.5
168°	1765.0
169°	1796.5
170°	1827.4
171°	1856.5
172°	1883.3
173°	1907.1
174°	1922.3
175°	1929.3
176°	1930.4
177°	1926.9
178°	1921.1
179°	1919.4
180°	1921.1

(END OF REPORT)