

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: P221739

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221739
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29494)
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-BK-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, WIDE FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 2700K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1505.5 lumens
Efficiency: N/A
Efficacy: 76.4 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.83
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

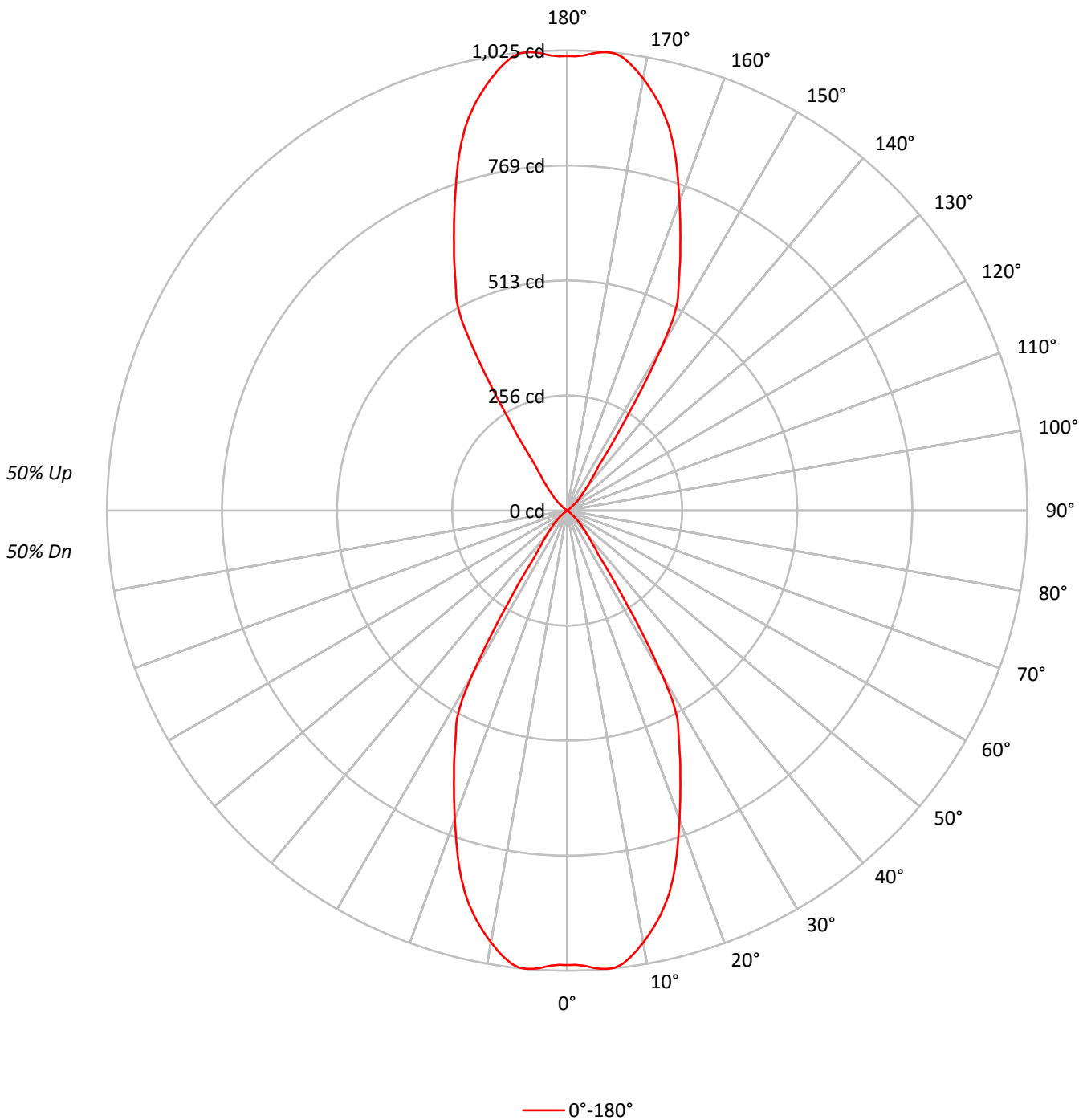
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	97	94	91	93	90	87	85	77	75	74	65	64	63	53	53	52	47
2	94	88	83	79	87	82	78	75	71	68	66	60	59	57	51	50	49	44
3	88	80	75	70	81	75	70	67	65	62	59	56	54	52	48	47	45	42
4	82	74	68	63	76	69	64	60	61	57	54	53	50	48	46	44	42	39
5	77	68	62	57	72	64	58	54	57	52	49	50	47	44	43	41	40	37
6	72	63	56	52	68	59	54	50	53	49	45	47	44	41	41	39	37	35
7	68	58	52	47	64	55	50	46	49	45	42	44	41	38	39	37	35	33
8	64	54	48	44	60	52	46	42	46	42	39	41	38	36	37	35	33	31
9	61	51	45	40	57	48	43	39	44	39	36	39	36	34	35	33	31	29
10	58	48	42	38	54	45	40	36	41	37	34	37	34	32	33	31	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	124875
5°	126912
10°	122330
15°	112450
20°	96005
25°	80651
30°	60375
35°	18943
40°	11223
45°	6820
50°	2840
55°	473
60°	321
65°	175
70°	108
75°	143
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.3	6.4
10°-20°	242.9	16.1
20°-30°	270.5	18.0
30°-40°	107.9	7.2
40°-50°	30.8	2.0
50°-60°	3.4	0.2
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°	3.4	0.2
130°-140°	30.8	2.0
140°-150°	107.9	7.2
150°-160°	270.5	18.0
160°-170°	242.9	16.1
170°-180°	96.3	6.4
0°-30°	609.7	40.5
0°-40°	717.6	47.7
0°-60°	751.8	49.9
0°-90°	752.8	50.0
90°-120°	0.9	0.1
90°-150°	143.1	9.5
90°-180°	753.0	50.0
0°-180°	1505.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1012	
5°	1025	96
15°	881	243
25°	593	271
35°	126	108
45°	39	31
55°	2	3
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	1	1
125°	2	3
135°	39	31
145°	126	108
155°	593	271
165°	881	243
175°	1025	96
180°	1012	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1012.4
1°	1012.1
2°	1014.0
3°	1018.7
4°	1023.1
5°	1025.0
6°	1023.7
7°	1017.1
8°	1005.8
9°	991.9
10°	976.7
11°	960.3
12°	943.3
13°	924.4
14°	903.6
15°	880.6
16°	853.7
17°	825.0
18°	793.8
19°	762.0
20°	731.4
21°	701.7
22°	673.3
23°	645.6
24°	619.4
25°	592.6
26°	567.4
27°	545.6
28°	522.9
29°	482.9
30°	423.9
32.5°	247.9
35°	125.8
37.5°	93.0
40°	69.7
42.5°	51.7
45°	39.1
47.5°	29.0
50°	14.8
52.5°	3.8
55°	2.2
57.5°	1.6
60°	1.3
62.5°	0.9
65°	0.6



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.3
70°	0.3
72.5°	0.3
75°	0.3
77.5°	0.3
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°	0.3
105°	0.3
107.5°	0.3
110°	0.3
112.5°	0.3
115°	0.6
117.5°	0.9
120°	1.3
122.5°	1.6
125°	2.2
127.5°	3.8
130°	14.8
132.5°	29.0
135°	39.1
137.5°	51.7
140°	69.7
142.5°	93.0
145°	125.8
147.5°	247.9
150°	423.9
151°	482.9
152°	522.9
153°	545.6
154°	567.4
155°	592.6
156°	619.4
157°	645.6
158°	673.3
159°	701.7
160°	731.4
161°	762.0



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CANDELA DISTRIBUTION (continued):

	0°
162°	793.8
163°	825.0
164°	853.7
165°	880.6
166°	903.6
167°	924.4
168°	943.3
169°	960.3
170°	976.7
171°	991.9
172°	1005.8
173°	1017.1
174°	1023.7
175°	1025.0
176°	1023.1
177°	1018.7
178°	1014.0
179°	1012.1
180°	1012.4

(END OF REPORT)