

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: P221979

Luminaire Tested: **9004-W2-FL-LED2790-W-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221979
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29499)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9004-W2-FL-LED2790-W-BK-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH 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: 1759.9 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

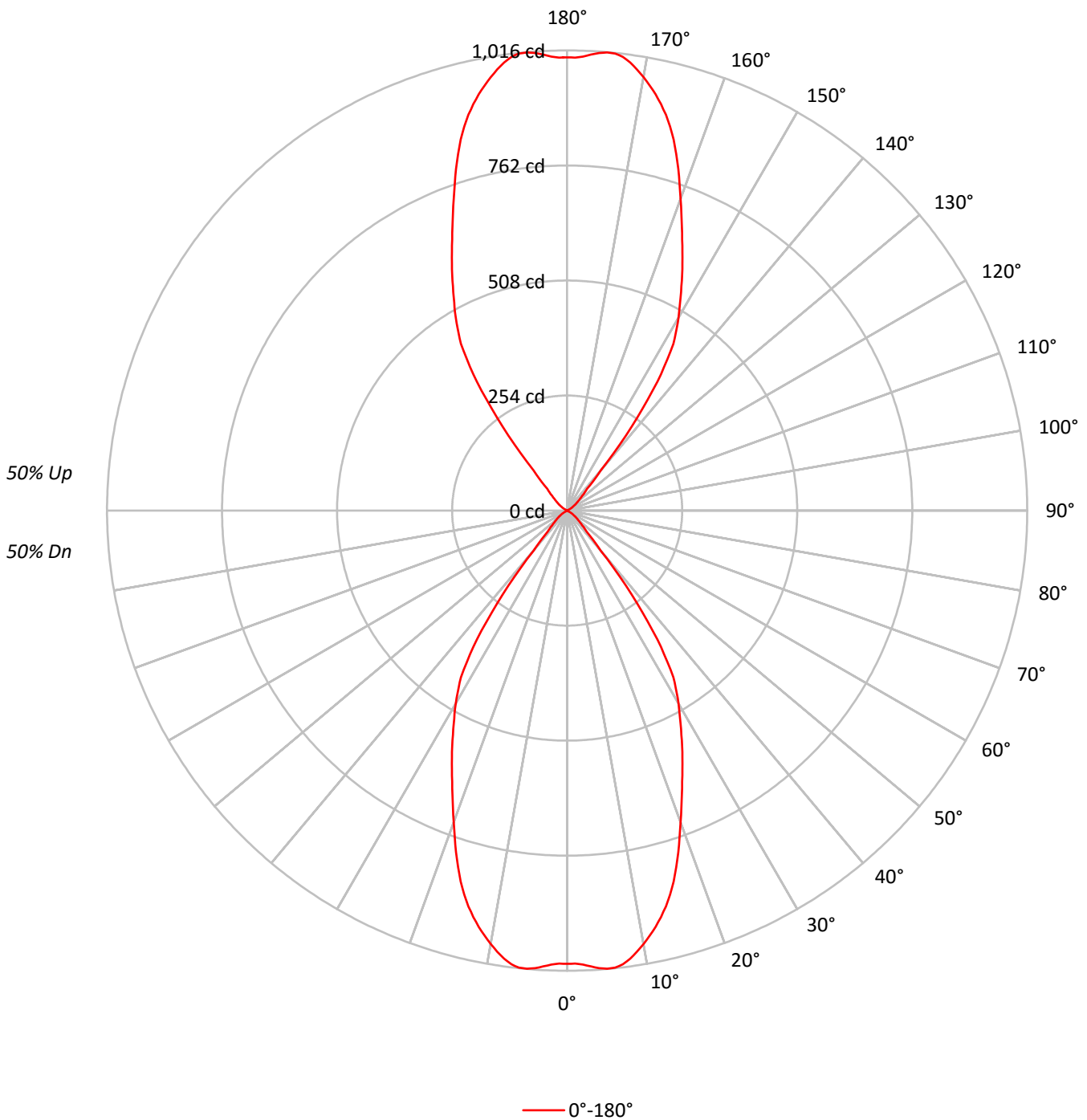
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	92	90	87	85	76	75	73		64	63	62		53	53	52	47
2	93	88	83	79	86	81	77	74	70	67	65		60	58	56		50	49	48	43
3	87	80	74	69	81	74	69	65	65	61	58		56	53	51		47	46	44	40
4	81	73	66	61	76	68	63	58	60	56	52		52	49	47		44	42	41	38
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	43		45	42	39		39	37	35	33
7	67	57	50	45	62	54	48	44	48	43	40		42	39	36		37	35	33	31
8	63	52	46	41	59	50	44	40	45	40	37		40	36	34		35	33	31	29
9	59	49	42	38	56	46	41	37	42	37	34		37	34	31		33	31	29	27
10	56	46	39	35	52	43	38	34	39	35	32		35	32	29		31	29	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	123432
5°	125736
10°	121741
15°	112118
20°	96084
25°	81944
30°	70074
35°	52386
40°	18581
45°	8687
50°	5757
55°	3871
60°	1949
65°	467
70°	325
75°	286
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.6	5.4
10°-20°	242.3	13.8
20°-30°	276.6	15.7
30°-40°	203.1	11.5
40°-50°	43.1	2.4
50°-60°	16.3	0.9
60°-70°	2.3	0.1
70°-80°	0.6	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.6	0.0
110°-120°	2.3	0.1
120°-130°	16.3	0.9
130°-140°	43.1	2.4
140°-150°	203.1	11.5
150°-160°	276.6	15.7
160°-170°	242.3	13.8
170°-180°	95.6	5.4
0°-30°	614.5	34.9
0°-40°	817.6	46.5
0°-60°	877.1	49.8
0°-90°	880.0	50.0
90°-120°	2.9	0.2
90°-150°	265.4	15.1
90°-180°	880.0	50.0
0°-180°	1759.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1001	
5°	1016	96
15°	878	242
25°	602	277
35°	348	203
45°	50	43
55°	18	16
65°	2	2
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	2	2
125°	18	16
135°	50	43
145°	348	203
155°	602	277
165°	878	242
175°	1016	96
180°	1001	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1000.7
1°	1000.4
2°	1002.9
3°	1008.0
4°	1012.7
5°	1015.5
6°	1014.9
7°	1009.5
8°	999.1
9°	986.2
10°	972.0
11°	955.9
12°	939.5
13°	920.9
14°	900.7
15°	878.0
16°	852.2
17°	823.5
18°	793.8
19°	762.6
20°	732.0
21°	703.6
22°	676.2
23°	650.3
24°	625.7
25°	602.1
26°	579.0
27°	555.7
28°	533.3
29°	512.5
30°	492.0
32.5°	436.8
35°	347.9
37.5°	235.0
40°	115.4
42.5°	65.0
45°	49.8
47.5°	39.1
50°	30.0
52.5°	23.7
55°	18.0
57.5°	12.9
60°	7.9
62.5°	2.2
65°	1.6



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	1.3
70°	0.9
72.5°	0.9
75°	0.6
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°	0.6
107.5°	0.9
110°	0.9
112.5°	1.3
115°	1.6
117.5°	2.2
120°	7.9
122.5°	12.9
125°	18.0
127.5°	23.7
130°	30.0
132.5°	39.1
135°	49.8
137.5°	65.0
140°	115.4
142.5°	235.0
145°	347.9
147.5°	436.8
150°	492.0
151°	512.5
152°	533.3
153°	555.7
154°	579.0
155°	602.1
156°	625.7
157°	650.3
158°	676.2
159°	703.6
160°	732.0
161°	762.6



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CANDELA DISTRIBUTION (continued):

	0°
162°	793.8
163°	823.5
164°	852.2
165°	878.0
166°	900.7
167°	920.9
168°	939.5
169°	955.9
170°	972.0
171°	986.2
172°	999.1
173°	1009.5
174°	1014.9
175°	1015.5
176°	1012.7
177°	1008.0
178°	1002.9
179°	1000.4
180°	1000.7

(END OF REPORT)