

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: P221968

Luminaire Tested: **9004-W2-FL-LED2790-M-BK-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221968
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29497)
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-M-BK-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, MEDIUM FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 2700K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

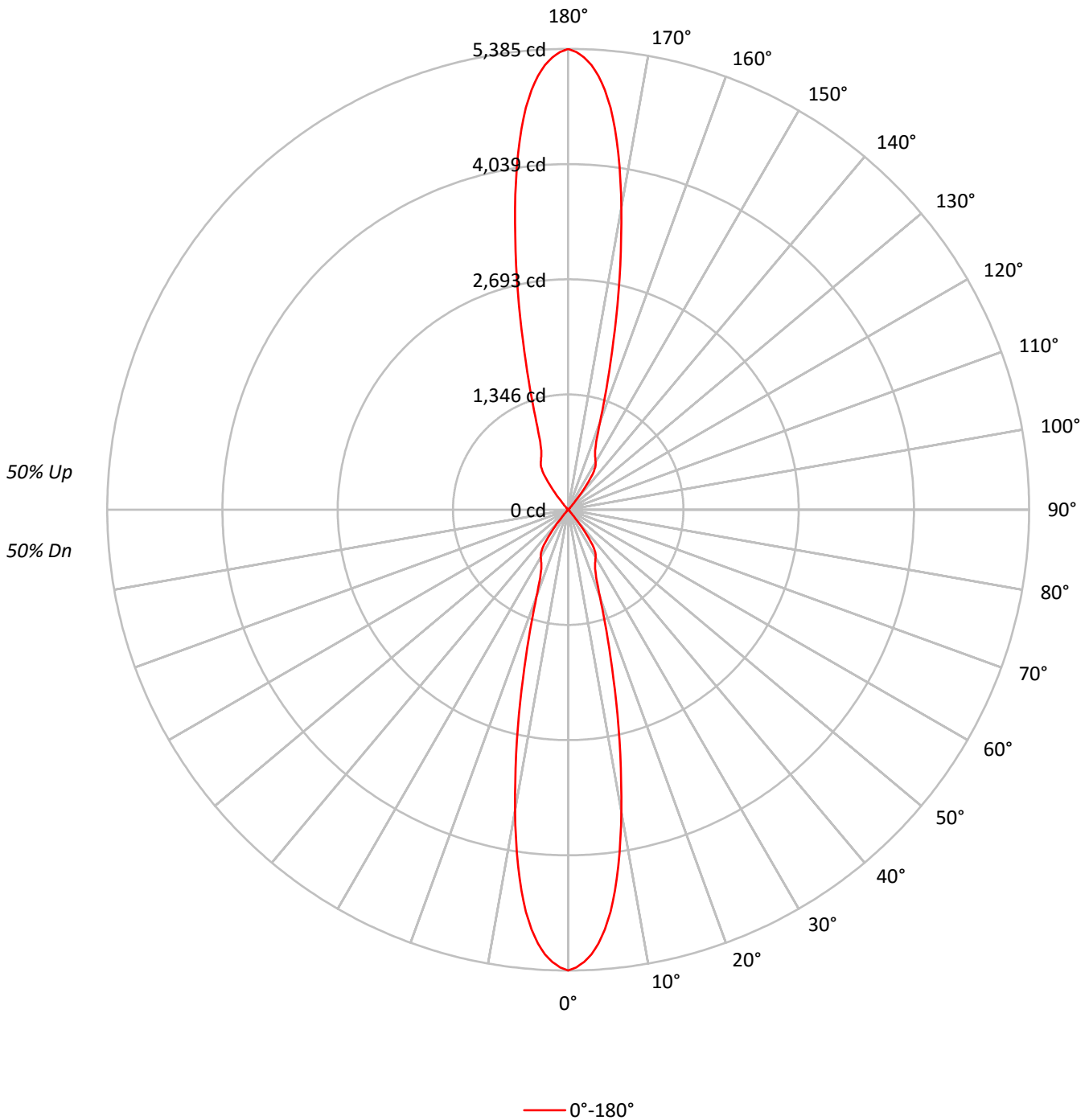
Lumens per Lamp: N/A
Luminaire Lumens: 3291.6 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 40.2
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	101	97	94	92	93	90	88	86	77	76	74		65	64	63		54	53	53	48
2	94	89	84	81	87	83	79	76	72	69	67		61	59	58		52	51	50	45
3	89	82	76	72	82	76	72	68	67	63	61		58	56	54		49	48	47	43
4	83	75	69	65	78	71	66	62	62	59	56		55	52	50		47	46	44	41
5	79	70	64	59	73	66	61	57	59	55	52		52	49	47		45	43	42	39
6	74	65	59	55	70	62	56	52	55	51	48		49	46	44		43	41	40	38
7	70	61	55	51	66	58	53	49	52	48	45		47	44	42		42	40	38	36
8	67	57	51	47	63	55	49	46	49	45	42		45	42	39		40	38	36	34
9	64	54	48	44	60	52	46	43	47	43	40		43	40	38		38	36	35	33
10	61	51	45	42	57	49	44	40	45	41	38		41	38	36		37	35	33	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	664192
5°	609476
10°	447826
15°	260706
20°	142170
25°	101052
30°	91068
35°	71720
40°	15941
45°	4361
50°	1458
55°	882
60°	567
65°	350
70°	216
75°	286
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.4	13.0
10°-20°	569.1	17.3
20°-30°	355.9	10.8
30°-40°	264.0	8.0
40°-50°	24.6	0.7
50°-60°	3.9	0.1
60°-70°	1.4	0.0
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°	1.4	0.0
120°-130°	3.9	0.1
130°-140°	24.6	0.7
140°-150°	264.0	8.0
150°-160°	355.9	10.8
160°-170°	569.1	17.3
170°-180°	426.4	13.0
0°-30°	1351.4	41.1
0°-40°	1615.4	49.1
0°-60°	1643.9	49.9
0°-90°	1645.8	50.0
90°-120°	1.9	0.1
90°-150°	294.4	8.9
90°-180°	1646.0	50.0
0°-180°	3291.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5385	
5°	4922	426
15°	2042	569
25°	742	356
35°	476	264
45°	25	25
55°	4	4
65°	1	1
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	1	1
125°	4	4
135°	25	25
145°	476	264
155°	742	356
165°	2042	569
175°	4922	426
180°	5385	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5384.8
1°	5349.3
2°	5288.7
3°	5201.4
4°	5081.4
5°	4922.4
6°	4725.0
7°	4486.8
8°	4209.1
9°	3899.3
10°	3575.5
11°	3244.2
12°	2923.3
13°	2610.6
14°	2313.6
15°	2041.6
16°	1794.2
17°	1578.1
18°	1384.2
19°	1220.0
20°	1083.1
21°	974.8
22°	888.1
23°	824.0
24°	776.8
25°	742.5
26°	716.8
27°	694.7
28°	674.3
29°	656.9
30°	639.4
32.5°	591.1
35°	476.3
37.5°	288.3
40°	99.0
42.5°	34.4
45°	25.0
47.5°	18.1
50°	7.6
52.5°	5.8
55°	4.1
57.5°	2.9
60°	2.3
62.5°	1.7
65°	1.2



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	1.2
70°	0.6
72.5°	0.6
75°	0.6
77.5°	0.6
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°	0.6
105°	0.6
107.5°	0.6
110°	0.6
112.5°	1.2
115°	1.2
117.5°	1.7
120°	2.3
122.5°	2.9
125°	4.1
127.5°	5.8
130°	7.6
132.5°	18.1
135°	25.0
137.5°	34.4
140°	99.0
142.5°	288.3
145°	476.3
147.5°	591.1
150°	639.4
151°	656.9
152°	674.3
153°	694.7
154°	716.8
155°	742.5
156°	776.8
157°	824.0
158°	888.1
159°	974.8
160°	1083.1
161°	1220.0



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CANDELA DISTRIBUTION (continued):

	0°
162°	1384.2
163°	1578.1
164°	1794.2
165°	2041.6
166°	2313.6
167°	2610.6
168°	2923.3
169°	3244.2
170°	3575.5
171°	3899.3
172°	4209.1
173°	4486.8
174°	4725.0
175°	4922.4
176°	5081.4
177°	5201.4
178°	5288.7
179°	5349.3
180°	5384.8

(END OF REPORT)