

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: P222133

Luminaire Tested: **9004-W2-FL-LED4097-F-WT-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222133
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29495)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9004-W2-FL-LED4097-F-WT-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 4000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3396.6 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.56
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

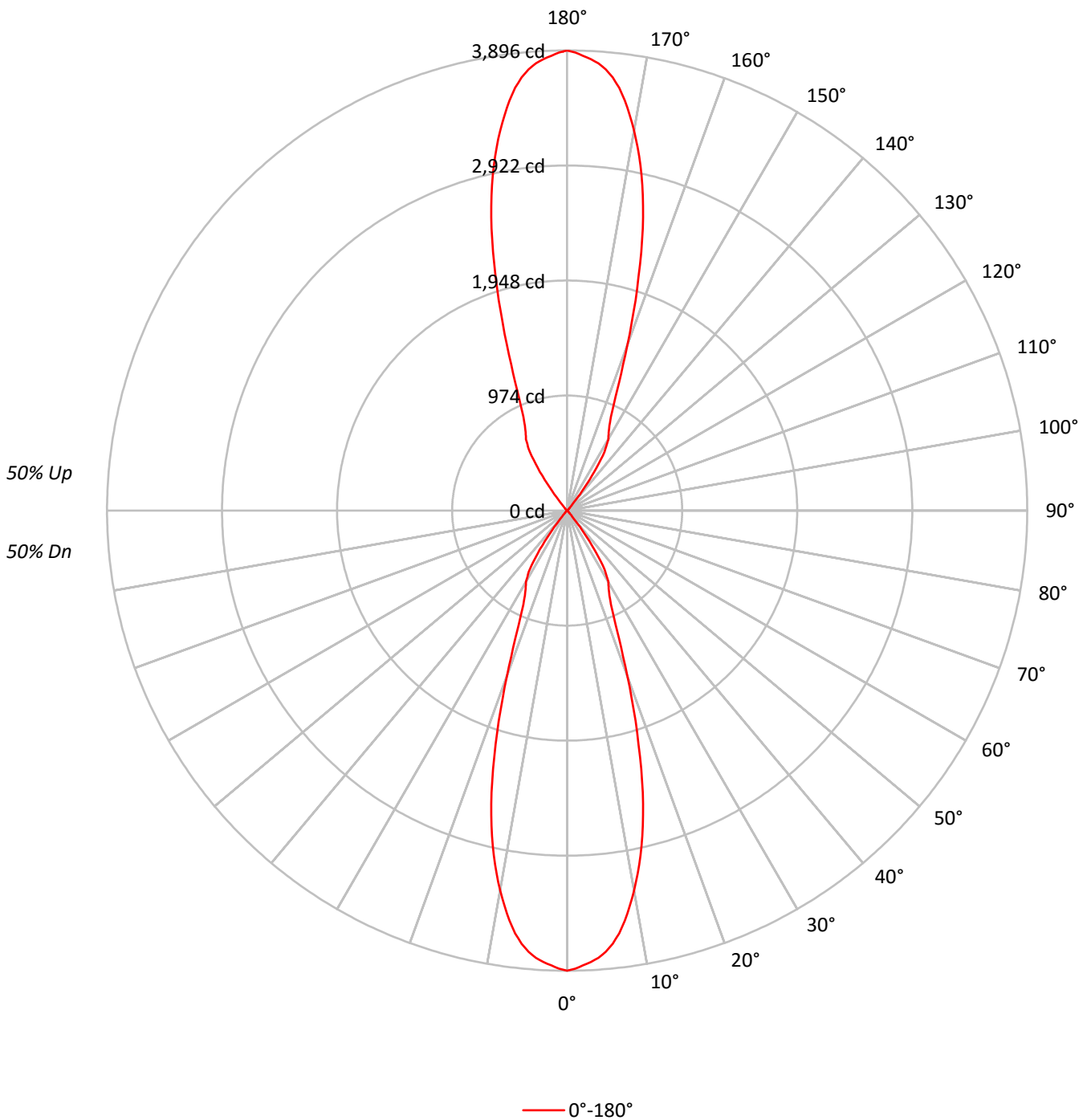
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	97	94	92	93	90	88	86	77	75	74		65	64	63		54	53	53	48
2	94	89	84	80	87	83	79	76	71	69	67		61	59	58		51	50	50	45
3	88	81	76	72	82	76	72	68	67	63	61		58	55	53		49	48	47	43
4	83	75	69	65	77	71	66	62	62	58	56		54	52	50		47	45	44	41
5	78	70	63	59	73	66	60	56	58	54	51		51	49	46		45	43	42	39
6	74	65	59	54	69	61	56	52	55	51	48		49	46	44		43	41	40	37
7	70	61	54	50	66	57	52	48	52	48	45		46	43	41		41	39	38	35
8	66	57	51	47	62	54	49	45	49	45	42		44	41	39		39	37	36	34
9	63	53	47	44	59	51	46	42	46	42	39		42	39	37		38	36	34	32
10	60	50	45	41	57	48	43	40	44	40	37		40	37	35		36	34	33	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	480493
5°	464301
10°	409111
15°	315896
20°	196092
25°	119616
30°	99201
35°	60547
40°	10257
45°	3733
50°	825
55°	387
60°	296
65°	350
70°	216
75°	286
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.6	10.1
10°-20°	662.4	19.5
20°-30°	431.4	12.7
30°-40°	239.6	7.1
40°-50°	18.7	0.6
50°-60°	1.9	0.1
60°-70°	1.1	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°	1.1	0.0
120°-130°	1.9	0.1
130°-140°	18.7	0.6
140°-150°	239.6	7.1
150°-160°	431.4	12.7
160°-170°	662.4	19.5
170°-180°	342.6	10.1
0°-30°	1436.3	42.3
0°-40°	1675.9	49.3
0°-60°	1696.6	50.0
0°-90°	1698.3	50.0
90°-120°	1.7	0.0
90°-150°	261.9	7.7
90°-180°	1698.0	50.0
0°-180°	3396.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3896	
5°	3750	343
15°	2474	662
25°	879	431
35°	402	240
45°	21	19
55°	2	2
65°	1	1
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	1	1
125°	2	2
135°	21	19
145°	402	240
155°	879	431
165°	2474	662
175°	3750	343
180°	3896	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3895.5
1°	3878.4
2°	3853.3
3°	3827.0
4°	3795.8
5°	3749.9
6°	3688.0
7°	3606.6
8°	3505.7
9°	3390.0
10°	3266.4
11°	3131.7
12°	2985.4
13°	2828.8
14°	2656.2
15°	2473.8
16°	2275.5
17°	2068.6
18°	1872.8
19°	1675.7
20°	1493.9
21°	1322.6
22°	1173.9
23°	1049.6
24°	952.9
25°	878.9
26°	825.0
27°	782.2
28°	748.5
29°	721.6
30°	696.5
32.5°	590.6
35°	402.1
37.5°	206.3
40°	63.7
42.5°	30.6
45°	21.4
47.5°	13.5
50°	4.3
52.5°	2.4
55°	1.8
57.5°	1.8
60°	1.2
62.5°	1.2
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°	1.2
120°	1.2
122.5°	1.8
125°	1.8
127.5°	2.4
130°	4.3
132.5°	13.5
135°	21.4
137.5°	30.6
140°	63.7
142.5°	206.3
145°	402.1
147.5°	590.6
150°	696.5
151°	721.6
152°	748.5
153°	782.2
154°	825.0
155°	878.9
156°	952.9
157°	1049.6
158°	1173.9
159°	1322.6
160°	1493.9
161°	1675.7



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CANDELA DISTRIBUTION (continued):

	0°
162°	1872.8
163°	2068.6
164°	2275.5
165°	2473.8
166°	2656.2
167°	2828.8
168°	2985.4
169°	3131.7
170°	3266.4
171°	3390.0
172°	3505.7
173°	3606.6
174°	3688.0
175°	3749.9
176°	3795.8
177°	3827.0
178°	3853.3
179°	3878.4
180°	3895.5

(END OF REPORT)