

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: P222040

Luminaire Tested: **9004-W2-FL-LED3097-M-BK-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222040
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-LED3097-M-BK-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, MEDIUM FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3079.4 lumens
Efficiency: N/A
Efficacy: 76.6 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

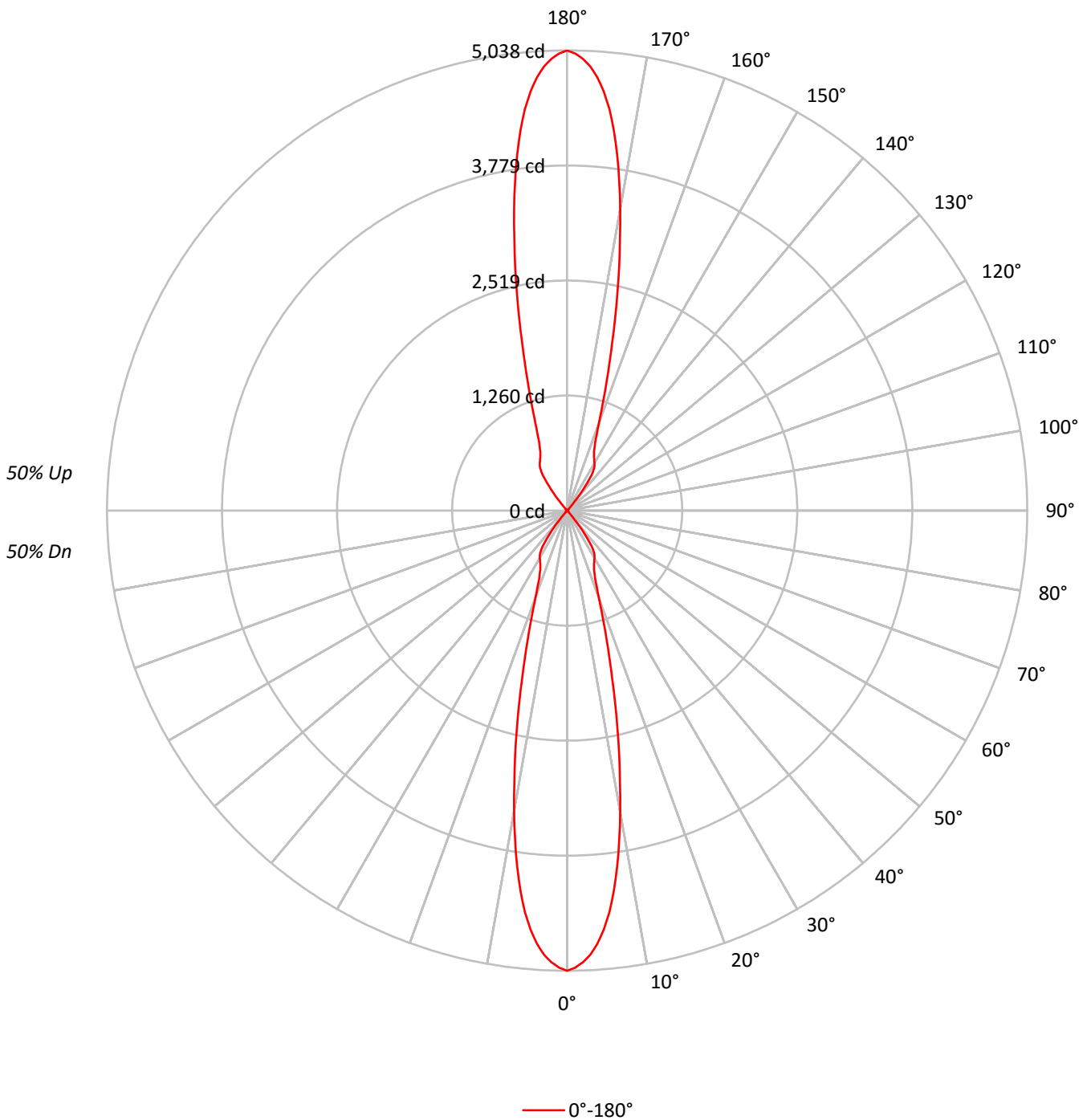
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	621403
5°	570213
10°	418981
15°	243914
20°	133021
25°	94533
30°	85200
35°	67112
40°	14910
45°	4082
50°	1362
55°	817
60°	543
65°	321
70°	180
75°	238
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.9	13.0
10°-20°	532.4	17.3
20°-30°	333.0	10.8
30°-40°	247.0	8.0
40°-50°	23.0	0.7
50°-60°	3.7	0.1
60°-70°	1.3	0.0
70°-80°	0.5	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.5	0.0
110°-120°	1.3	0.0
120°-130°	3.7	0.1
130°-140°	23.0	0.7
140°-150°	247.0	8.0
150°-160°	333.0	10.8
160°-170°	532.4	17.3
170°-180°	398.9	13.0
0°-30°	1264.3	41.1
0°-40°	1511.3	49.1
0°-60°	1538.0	49.9
0°-90°	1539.7	50.0
90°-120°	1.7	0.1
90°-150°	275.4	8.9
90°-180°	1540.0	50.0
0°-180°	3079.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5038	
5°	4605	399
15°	1910	532
25°	695	333
35°	446	247
45°	23	23
55°	4	4
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	1	1
125°	4	4
135°	23	23
145°	446	247
155°	695	333
165°	1910	532
175°	4605	399
180°	5038	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5037.9
1°	5004.7
2°	4948.0
3°	4866.3
4°	4754.1
5°	4605.3
6°	4420.6
7°	4197.8
8°	3937.9
9°	3648.1
10°	3345.2
11°	3035.2
12°	2735.0
13°	2442.4
14°	2164.6
15°	1910.1
16°	1678.6
17°	1476.5
18°	1295.0
19°	1141.4
20°	1013.4
21°	912.0
22°	830.8
23°	770.9
24°	726.8
25°	694.6
26°	670.7
27°	650.0
28°	630.9
29°	614.6
30°	598.2
32.5°	553.0
35°	445.7
37.5°	269.7
40°	92.6
42.5°	32.1
45°	23.4
47.5°	16.9
50°	7.1
52.5°	5.4
55°	3.8
57.5°	2.7
60°	2.2
62.5°	1.6
65°	1.1



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	1.1
70°	0.5
72.5°	0.5
75°	0.5
77.5°	0.5
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°	0.5
105°	0.5
107.5°	0.5
110°	0.5
112.5°	1.1
115°	1.1
117.5°	1.6
120°	2.2
122.5°	2.7
125°	3.8
127.5°	5.4
130°	7.1
132.5°	16.9
135°	23.4
137.5°	32.1
140°	92.6
142.5°	269.7
145°	445.7
147.5°	553.0
150°	598.2
151°	614.6
152°	630.9
153°	650.0
154°	670.7
155°	694.6
156°	726.8
157°	770.9
158°	830.8
159°	912.0
160°	1013.4
161°	1141.4



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CANDELA DISTRIBUTION (continued):

	0°
162°	1295.0
163°	1476.5
164°	1678.6
165°	1910.1
166°	2164.6
167°	2442.4
168°	2735.0
169°	3035.2
170°	3345.2
171°	3648.1
172°	3937.9
173°	4197.8
174°	4420.6
175°	4605.3
176°	4754.1
177°	4866.3
178°	4948.0
179°	5004.7
180°	5037.9

(END OF REPORT)