

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: P222142

Luminaire Tested: **9004-W2-FL-LED4097-S-BK-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222142
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29496)
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-S-BK-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, SPOT OPTIC,
BLACK HOUSING.
Light Source: (1) 4000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3428.8 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Spacing Criteria (0/90/45): 0.27 / 0.27 / 0.27
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

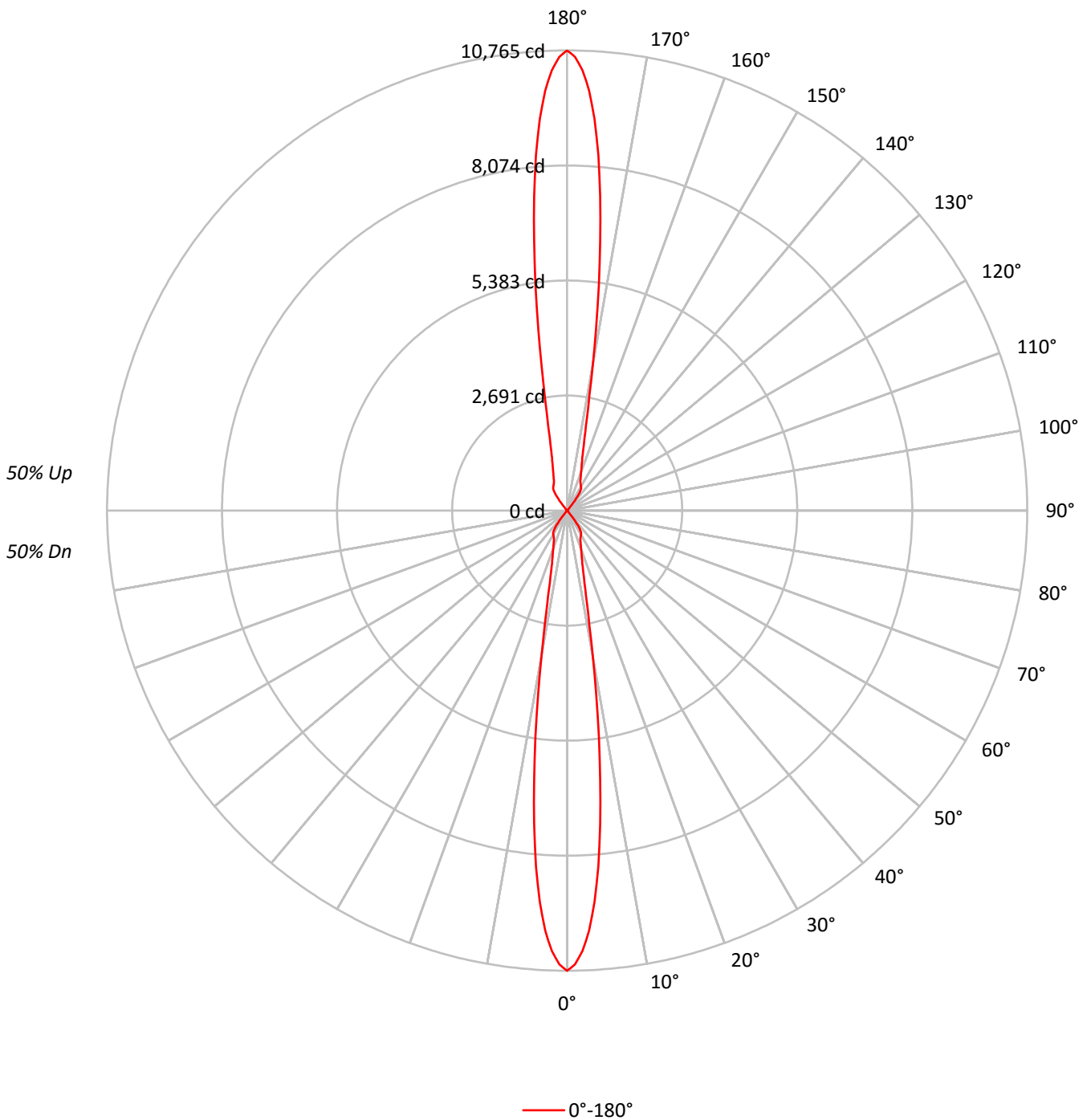
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	92	93	90	88	86	77	76	74		65	64	63		54	54	53	48
2	95	89	85	81	88	83	80	76	72	69	67		62	60	58		52	51	50	46
3	89	82	77	73	83	77	72	69	67	64	62		58	56	54		50	49	48	44
4	84	76	70	66	78	72	67	63	63	60	57		55	53	51		48	46	45	42
5	79	71	65	60	74	67	62	58	59	56	53		53	50	48		46	44	43	40
6	75	66	60	56	70	63	58	54	56	52	49		50	47	45		44	43	41	39
7	71	62	56	52	67	59	54	50	53	49	47		48	45	43		43	41	40	37
8	68	59	53	49	64	56	51	47	51	47	44		46	43	41		41	39	38	36
9	65	56	50	46	61	53	48	45	48	45	42		44	41	39		40	38	37	35
10	62	53	47	44	59	51	46	42	46	43	40		42	40	38		39	37	35	34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1327865
5°	1033610
10°	430491
15°	182019
20°	124922
25°	99705
30°	92136
35°	75379
40°	15860
45°	3628
50°	1286
55°	1054
60°	592
65°	350
70°	216
75°	286
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	627.4	18.3
10°-20°	439.7	12.8
20°-30°	346.5	10.1
30°-40°	272.8	8.0
40°-50°	22.0	0.6
50°-60°	4.3	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°	4.3	0.1
130°-140°	22.0	0.6
140°-150°	272.8	8.0
150°-160°	346.5	10.1
160°-170°	439.7	12.8
170°-180°	627.4	18.3
0°-30°	1413.6	41.2
0°-40°	1686.4	49.2
0°-60°	1712.7	50.0
0°-90°	1714.4	50.0
90°-120°	1.7	0.0
90°-150°	300.8	8.8
90°-180°	1714.0	50.0
0°-180°	3428.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10765	
5°	8348	627
15°	1425	440
25°	733	347
35°	501	273
45°	21	22
55°	5	4
65°	1	1
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	1	1
125°	5	4
135°	21	22
145°	501	273
155°	733	347
165°	1425	440
175°	8348	627
180°	10765	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	10765.4
1°	10617.3
2°	10309.5
3°	9832.1
4°	9179.1
5°	8347.9
6°	7388.3
7°	6351.5
8°	5334.4
9°	4310.5
10°	3437.1
11°	2740.0
12°	2234.5
13°	1876.5
14°	1617.0
15°	1425.4
16°	1281.6
17°	1176.3
18°	1096.1
19°	1019.6
20°	951.7
21°	895.4
22°	845.2
23°	801.1
24°	762.6
25°	732.6
26°	709.9
27°	692.8
28°	676.3
29°	661.6
30°	646.9
32.5°	610.2
35°	500.6
37.5°	298.7
40°	98.5
42.5°	29.4
45°	20.8
47.5°	14.7
50°	6.7
52.5°	6.1
55°	4.9
57.5°	3.7
60°	2.4
62.5°	1.2
65°	1.2



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.6
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°	0.6
115°	1.2
117.5°	1.2
120°	2.4
122.5°	3.7
125°	4.9
127.5°	6.1
130°	6.7
132.5°	14.7
135°	20.8
137.5°	29.4
140°	98.5
142.5°	298.7
145°	500.6
147.5°	610.2
150°	646.9
151°	661.6
152°	676.3
153°	692.8
154°	709.9
155°	732.6
156°	762.6
157°	801.1
158°	845.2
159°	895.4
160°	951.7
161°	1019.6



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CANDELA DISTRIBUTION (continued):

	0°
162°	1096.1
163°	1176.3
164°	1281.6
165°	1425.4
166°	1617.0
167°	1876.5
168°	2234.5
169°	2740.0
170°	3437.1
171°	4310.5
172°	5334.4
173°	6351.5
174°	7388.3
175°	8347.9
176°	9179.1
177°	9832.1
178°	10309.5
179°	10617.3
180°	10765.4

(END OF REPORT)