

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: P222131

Luminaire Tested: **9004-W2-FL-LED4097-F-BK-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222131
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29498)
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-BK-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 4000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

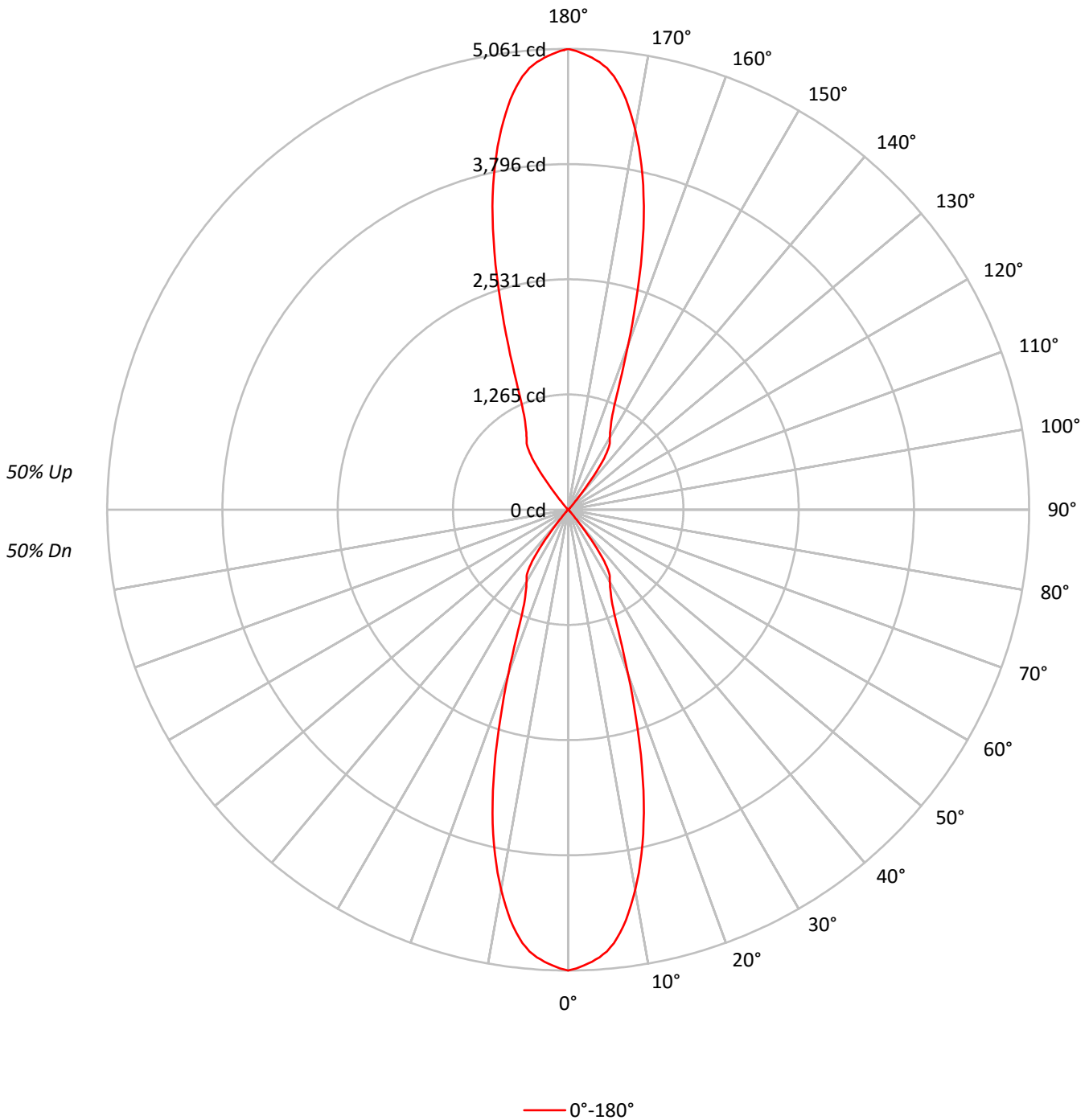
Lumens per Lamp: N/A
Luminaire Lumens: 4552.7 lumens
Efficiency: N/A
Efficacy: 79.9 lumens/watt
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.56
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 57
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56
1	100	97	94	92	93	90	88	86	77	75	74	65	64	63	54	53	53
2	94	89	84	80	87	83	79	76	71	69	66	61	59	58	51	50	49
3	88	81	76	71	82	76	71	68	66	63	60	57	55	53	49	48	46
4	83	75	69	64	77	70	65	61	62	58	55	54	51	49	47	45	44
5	78	69	63	58	73	65	60	56	58	54	51	51	48	46	45	43	41
6	74	64	58	54	69	61	55	52	54	50	47	48	45	43	43	41	39
7	70	60	54	50	65	57	52	48	51	47	44	46	43	41	41	39	37
8	66	56	50	46	62	54	48	44	48	44	41	44	41	38	39	37	35
9	63	53	47	43	59	50	45	42	46	42	39	41	38	36	37	35	34
10	60	50	44	40	56	48	43	39	44	39	37	40	37	34	36	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	624265
5°	602889
10°	530815
15°	407736
20°	252180
25°	156253
30°	130207
35°	104230
40°	22719
45°	4849
50°	921
55°	516
60°	395
65°	233
70°	289
75°	381
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	444.7	9.8
10°-20°	856.3	18.8
20°-30°	562.3	12.4
30°-40°	379.2	8.3
40°-50°	29.9	0.7
50°-60°	2.1	0.0
60°-70°	1.1	0.0
70°-80°	0.7	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.7	0.0
110°-120°	1.1	0.0
120°-130°	2.1	0.0
130°-140°	29.9	0.7
140°-150°	379.2	8.3
150°-160°	562.3	12.4
160°-170°	856.3	18.8
170°-180°	444.7	9.8
0°-30°	1863.3	40.9
0°-40°	2242.4	49.3
0°-60°	2274.5	50.0
0°-90°	2276.3	50.0
90°-120°	1.8	0.0
90°-150°	413.0	9.1
90°-180°	2276.0	50.0
0°-180°	4552.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5061	
5°	4869	445
15°	3193	856
25°	1148	562
35°	692	379
45°	28	30
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°	28	30
145°	692	379
155°	1148	562
165°	3193	856
175°	4869	445
180°	5061	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5061.1
1°	5038.9
2°	5006.4
3°	4970.7
4°	4928.7
5°	4869.2
6°	4787.6
7°	4681.3
8°	4550.5
9°	4399.0
10°	4238.1
11°	4061.3
12°	3868.6
13°	3658.5
14°	3434.9
15°	3193.0
16°	2938.5
17°	2675.3
18°	2412.0
19°	2164.6
20°	1921.2
21°	1710.3
22°	1520.8
23°	1363.8
24°	1242.5
25°	1148.1
26°	1079.9
27°	1027.6
28°	983.2
29°	946.7
30°	914.2
32.5°	846.0
35°	692.2
37.5°	411.5
40°	141.1
42.5°	42.0
45°	27.8
47.5°	17.4
50°	4.8
52.5°	2.4
55°	2.4
57.5°	1.6
60°	1.6
62.5°	1.6
65°	0.8



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.8
70°	0.8
72.5°	0.8
75°	0.8
77.5°	0.8
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°	0.8
105°	0.8
107.5°	0.8
110°	0.8
112.5°	0.8
115°	0.8
117.5°	1.6
120°	1.6
122.5°	1.6
125°	2.4
127.5°	2.4
130°	4.8
132.5°	17.4
135°	27.8
137.5°	42.0
140°	141.1
142.5°	411.5
145°	692.2
147.5°	846.0
150°	914.2
151°	946.7
152°	983.2
153°	1027.6
154°	1079.9
155°	1148.1
156°	1242.5
157°	1363.8
158°	1520.8
159°	1710.3
160°	1921.2
161°	2164.6



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CANDELA DISTRIBUTION (continued):

	0°
162°	2412.0
163°	2675.3
164°	2938.5
165°	3193.0
166°	3434.9
167°	3658.5
168°	3868.6
169°	4061.3
170°	4238.1
171°	4399.0
172°	4550.5
173°	4681.3
174°	4787.6
175°	4869.2
176°	4928.7
177°	4970.7
178°	5006.4
179°	5038.9
180°	5061.1

(END OF REPORT)