

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: P221909

Luminaire Tested: **9004-W2-[RW, RI]-LED4097-W-BK-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221909
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29494)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9004-W2-[RW, RI]-LED4097-W-BK-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, WIDE FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 4000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3785.3 lumens
Efficiency: N/A
Efficacy: 66.2 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.83
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

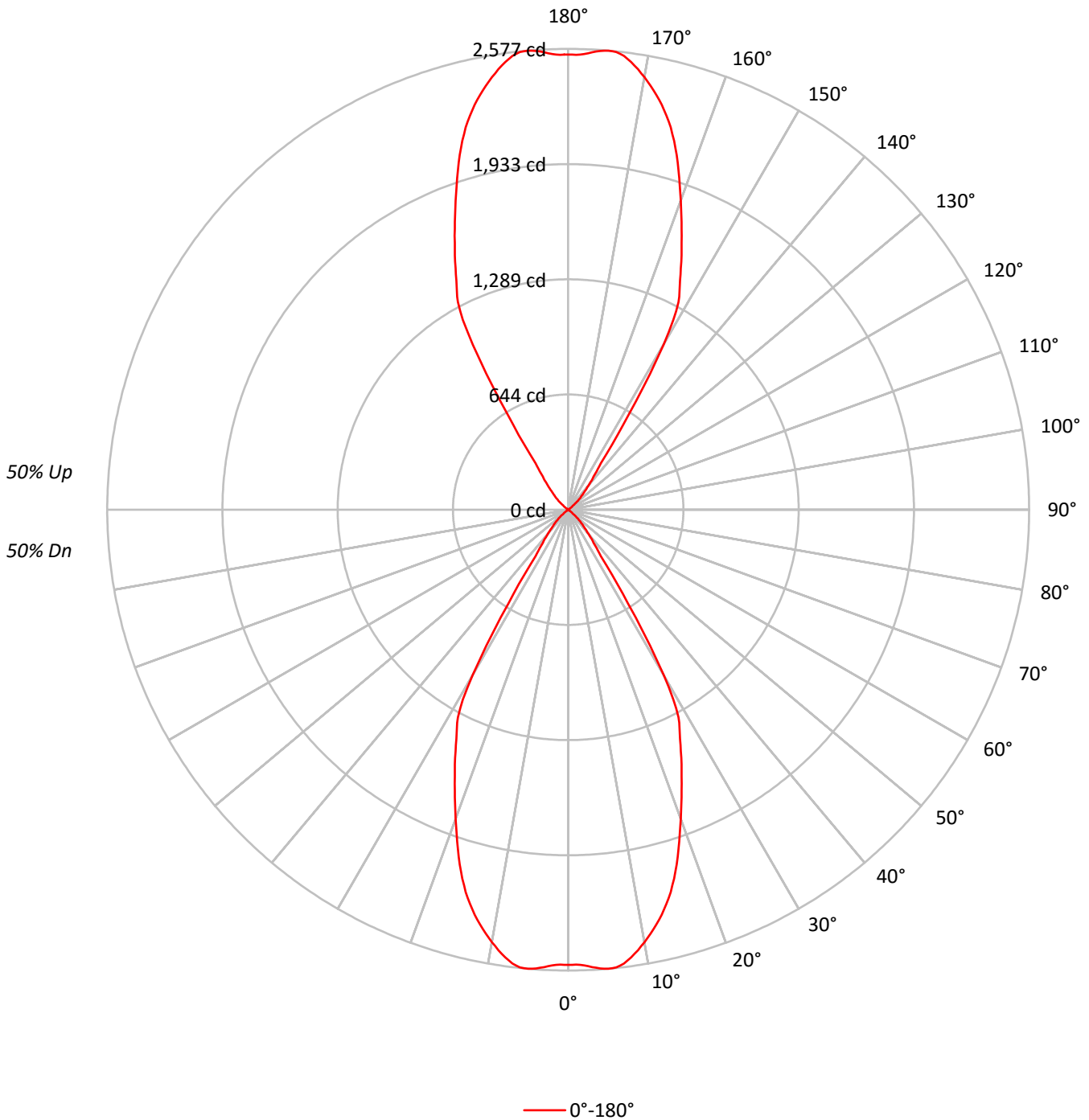
Input Watts (W): 57.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	91	93	90	87	85	77	75	74	65	64	63	53	53	52	47
2	94	88	83	79	87	82	78	75	71	68	66	60	59	57	51	50	49	44
3	88	80	75	70	81	75	70	67	65	62	59	56	54	52	48	47	45	42
4	82	74	68	63	76	69	64	60	61	57	54	53	50	48	46	44	42	39
5	77	68	62	57	72	64	58	54	57	52	49	50	47	44	43	41	40	37
6	72	63	56	52	68	59	54	50	53	49	45	47	44	41	41	39	37	35
7	68	58	52	47	64	55	50	46	49	45	42	44	41	38	39	37	35	33
8	64	54	48	44	60	52	46	42	46	42	39	41	38	36	37	35	33	31
9	61	51	45	40	57	48	43	39	44	39	36	39	36	34	35	33	31	29
10	58	48	42	38	54	45	40	36	41	37	34	37	34	32	33	31	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	313939
5°	319063
10°	307560
15°	282695
20°	241351
25°	202771
30°	151785
35°	47643
40°	28210
45°	17147
50°	7158
55°	1204
60°	789
65°	467
70°	289
75°	381
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.1	6.4
10°-20°	610.6	16.1
20°-30°	680.1	18.0
30°-40°	271.3	7.2
40°-50°	77.5	2.0
50°-60°	8.6	0.2
60°-70°	1.7	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°	1.7	0.0
120°-130°	8.6	0.2
130°-140°	77.5	2.0
140°-150°	271.3	7.2
150°-160°	680.1	18.0
160°-170°	610.6	16.1
170°-180°	242.1	6.4
0°-30°	1532.8	40.5
0°-40°	1804.1	47.7
0°-60°	1890.2	49.9
0°-90°	1892.7	50.0
90°-120°	2.4	0.1
90°-150°	359.9	9.5
90°-180°	1893.0	50.0
0°-180°	3785.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2545	
5°	2577	242
15°	2214	611
25°	1490	680
35°	316	271
45°	98	78
55°	6	9
65°	2	2
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	2	2
125°	6	9
135°	98	78
145°	316	271
155°	1490	680
165°	2214	611
175°	2577	242
180°	2545	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2545.2
1°	2544.4
2°	2549.2
3°	2561.1
4°	2572.2
5°	2576.9
6°	2573.8
7°	2557.1
8°	2528.6
9°	2493.7
10°	2455.6
11°	2414.4
12°	2371.6
13°	2324.0
14°	2271.7
15°	2213.8
16°	2146.4
17°	2074.2
18°	1995.7
19°	1915.7
20°	1838.7
21°	1764.2
22°	1692.9
23°	1623.1
24°	1557.3
25°	1489.9
26°	1426.4
27°	1371.7
28°	1314.6
29°	1213.9
30°	1065.7
32.5°	623.2
35°	316.4
37.5°	233.9
40°	175.2
42.5°	130.0
45°	98.3
47.5°	72.9
50°	37.3
52.5°	9.5
55°	5.6
57.5°	4.0
60°	3.2
62.5°	2.4
65°	1.6



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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°	1.6
117.5°	2.4
120°	3.2
122.5°	4.0
125°	5.6
127.5°	9.5
130°	37.3
132.5°	72.9
135°	98.3
137.5°	130.0
140°	175.2
142.5°	233.9
145°	316.4
147.5°	623.2
150°	1065.7
151°	1213.9
152°	1314.6
153°	1371.7
154°	1426.4
155°	1489.9
156°	1557.3
157°	1623.1
158°	1692.9
159°	1764.2
160°	1838.7
161°	1915.7



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CANDELA DISTRIBUTION (continued):

	0°
162°	1995.7
163°	2074.2
164°	2146.4
165°	2213.8
166°	2271.7
167°	2324.0
168°	2371.6
169°	2414.4
170°	2455.6
171°	2493.7
172°	2528.6
173°	2557.1
174°	2573.8
175°	2576.9
176°	2572.2
177°	2561.1
178°	2549.2
179°	2544.4
180°	2545.2

(END OF REPORT)