

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: P221801

Luminaire Tested: **9004-W2-[RW, RI]-LED3097-M-BK-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221801
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29492)
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]-LED3097-M-BK-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED 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: 3493.6 lumens
Efficiency: N/A
Efficacy: 61.3 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

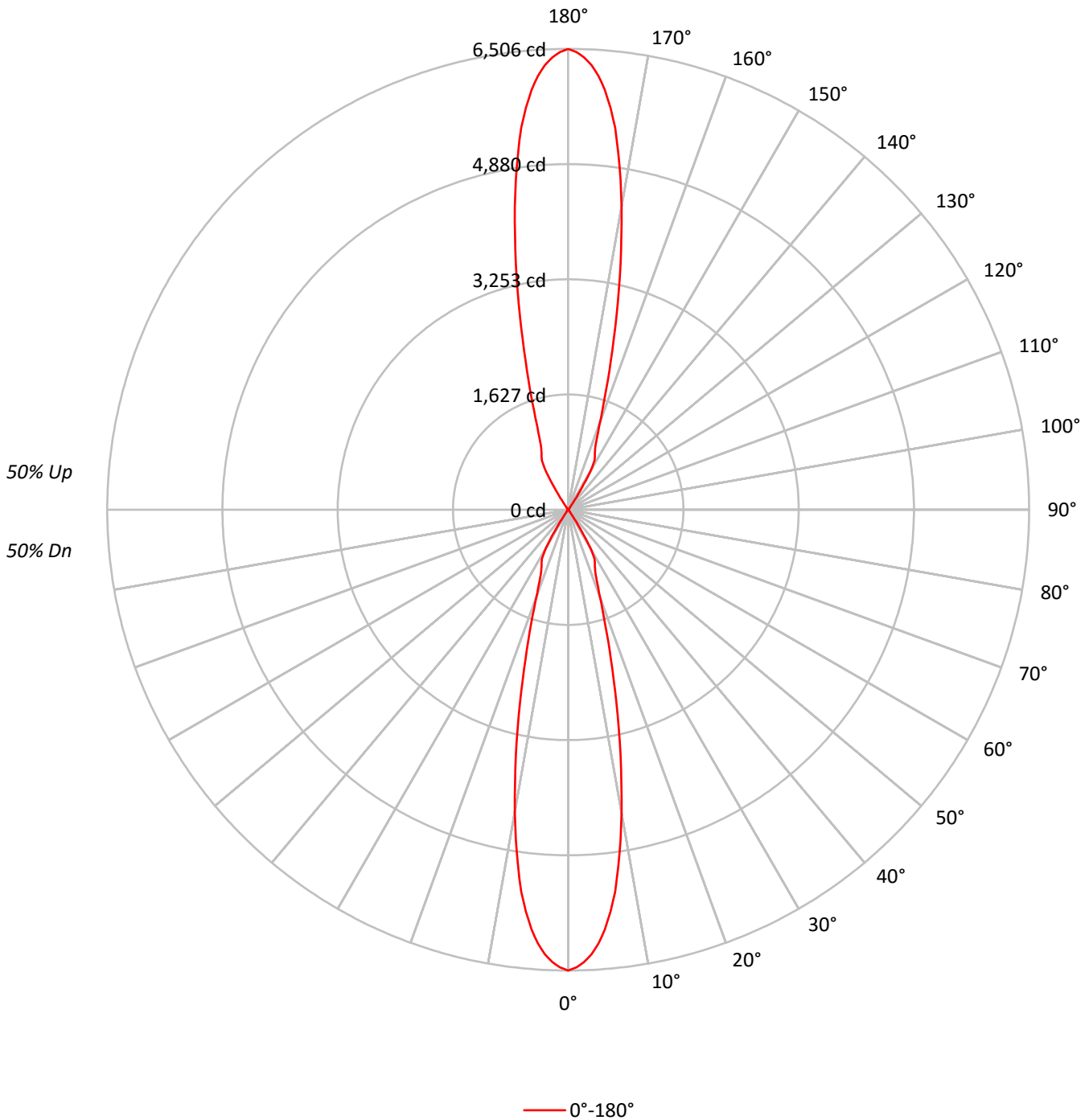
Input Watts (W): 57
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	98	95	92	93	91	88	86	77	76	74	65	64	63	54	54	53	48
2	95	89	85	81	88	83	80	77	72	70	67	62	60	59	52	51	50	46
3	89	82	77	73	83	77	73	69	68	64	62	59	57	55	50	49	48	44
4	84	76	71	66	79	72	67	63	64	60	57	56	53	51	48	47	46	43
5	80	71	65	61	75	67	62	58	60	56	53	53	51	49	47	45	44	41
6	76	67	61	57	71	63	58	54	57	53	50	51	48	46	45	43	42	40
7	72	63	57	53	68	60	55	51	54	50	47	49	46	44	43	42	40	38
8	68	59	53	50	64	57	51	48	51	48	45	47	44	42	42	40	39	37
9	65	56	51	47	62	54	49	45	49	45	43	45	42	40	41	39	37	36
10	62	53	48	44	59	51	46	43	47	43	41	43	40	38	39	37	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	802536
5°	736301
10°	543253
15°	317084
20°	171953
25°	121521
30°	88063
35°	10947
40°	3752
45°	1483
50°	940
55°	753
60°	518
65°	409
70°	252
75°	334
80°	497
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	515.6	14.8
10°-20°	691.5	19.8
20°-30°	419.5	12.0
30°-40°	107.3	3.1
40°-50°	7.7	0.2
50°-60°	3.1	0.1
60°-70°	1.4	0.0
70°-80°	0.7	0.0
80°-90°	0.1	0.0
90°-100°	0.1	0.0
100°-110°	0.7	0.0
110°-120°	1.4	0.0
120°-130°	3.1	0.1
130°-140°	7.7	0.2
140°-150°	107.3	3.1
150°-160°	419.5	12.0
160°-170°	691.5	19.8
170°-180°	515.6	14.8
0°-30°	1626.5	46.6
0°-40°	1733.8	49.6
0°-60°	1744.6	49.9
0°-90°	1746.8	50.0
90°-120°	2.2	0.1
90°-150°	120.3	3.4
90°-180°	1747.0	50.0
0°-180°	3493.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6506	
5°	5947	516
15°	2483	691
25°	893	419
35°	73	107
45°	8	8
55°	4	3
65°	1	1
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	1	1
125°	4	3
135°	8	8
145°	73	107
155°	893	419
165°	2483	691
175°	5947	516
180°	6506	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	6506.4
1°	6464.8
2°	6390.7
3°	6284.8
4°	6140.1
5°	5946.7
6°	5705.3
7°	5433.5
8°	5086.3
9°	4715.7
10°	4337.4
11°	3939.3
12°	3548.3
13°	3174.2
14°	2814.9
15°	2483.1
16°	2186.7
17°	1919.2
18°	1680.6
19°	1479.4
20°	1310.0
21°	1176.6
22°	1070.8
23°	992.4
24°	936.6
25°	892.9
26°	857.6
27°	827.2
28°	791.2
29°	725.6
30°	618.3
32.5°	294.3
35°	72.7
37.5°	39.5
40°	23.3
42.5°	10.6
45°	8.5
47.5°	7.1
50°	4.9
52.5°	4.2
55°	3.5
57.5°	2.8
60°	2.1
62.5°	2.1
65°	1.4



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.7
70°	0.7
72.5°	0.7
75°	0.7
77.5°	0.7
80°	0.7
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°	0.7
102.5°	0.7
105°	0.7
107.5°	0.7
110°	0.7
112.5°	0.7
115°	1.4
117.5°	2.1
120°	2.1
122.5°	2.8
125°	3.5
127.5°	4.2
130°	4.9
132.5°	7.1
135°	8.5
137.5°	10.6
140°	23.3
142.5°	39.5
145°	72.7
147.5°	294.3
150°	618.3
151°	725.6
152°	791.2
153°	827.2
154°	857.6
155°	892.9
156°	936.6
157°	992.4
158°	1070.8
159°	1176.6
160°	1310.0
161°	1479.4



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CANDELA DISTRIBUTION (continued):

	0°
162°	1680.6
163°	1919.2
164°	2186.7
165°	2483.1
166°	2814.9
167°	3174.2
168°	3548.3
169°	3939.3
170°	4337.4
171°	4715.7
172°	5086.3
173°	5433.5
174°	5705.3
175°	5946.7
176°	6140.1
177°	6284.8
178°	6390.7
179°	6464.8
180°	6506.4

(END OF REPORT)