

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: P221794

Luminaire Tested: **9004-W2-[RW, RI]-LED3097-F-BK-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221794
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29493)
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-F-BK-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2736.6 lumens
Efficiency: N/A
Efficacy: 68.1 lumens/watt
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.56
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

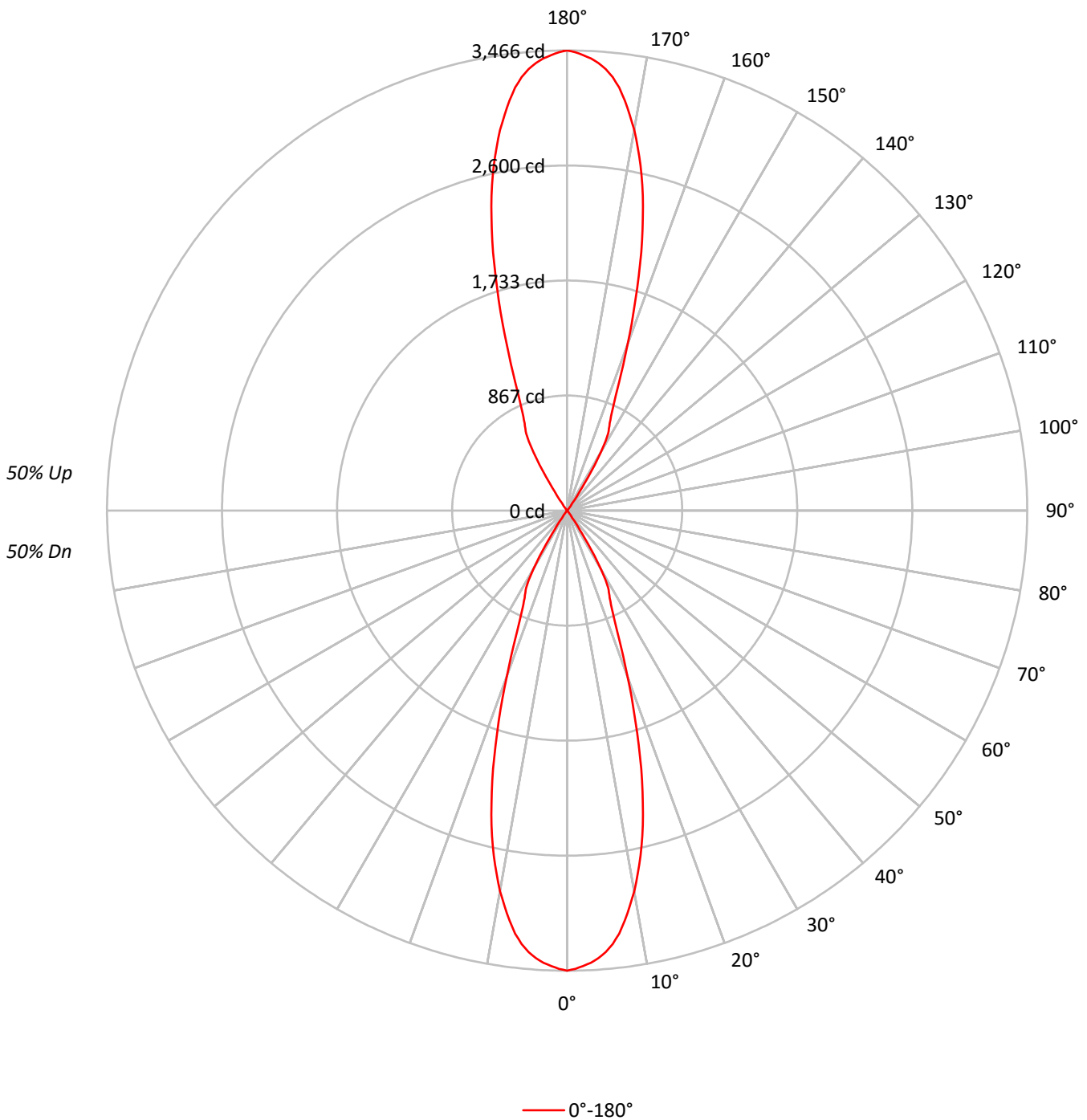
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	95	92	93	90	88	86	77	76	74	65	64	63	54	53	53	48
2	95	89	85	81	88	83	79	76	72	69	67	61	60	58	52	51	50	46
3	89	82	77	73	83	77	72	69	67	64	61	58	56	54	50	49	47	44
4	84	76	70	66	78	71	66	63	63	59	57	55	53	51	48	46	45	42
5	79	71	65	60	74	67	61	58	59	55	53	52	50	48	46	44	43	40
6	75	66	60	55	70	62	57	53	56	52	49	50	47	45	44	42	41	38
7	71	62	56	52	67	59	53	50	53	49	46	48	45	43	42	41	39	37
8	68	58	52	48	64	55	50	47	50	46	44	45	43	40	41	39	37	35
9	64	55	49	45	61	52	47	44	48	44	41	43	41	39	39	37	36	34
10	61	52	46	43	58	50	45	41	46	42	39	42	39	37	38	36	35	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	427467
5°	413313
10°	364460
15°	280575
20°	174066
25°	106482
30°	72481
35°	9592
40°	2721
45°	663
50°	518
55°	344
60°	271
65°	321
70°	180
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.9	11.1
10°-20°	589.4	21.5
20°-30°	377.9	13.8
30°-40°	89.1	3.3
40°-50°	4.2	0.2
50°-60°	1.6	0.1
60°-70°	0.9	0.0
70°-80°	0.2	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.3	0.0
110°-120°	0.9	0.0
120°-130°	1.6	0.1
130°-140°	4.2	0.2
140°-150°	89.1	3.3
150°-160°	377.9	13.8
160°-170°	589.4	21.5
170°-180°	304.9	11.1
0°-30°	1272.3	46.5
0°-40°	1361.4	49.7
0°-60°	1367.2	50.0
0°-90°	1368.3	50.0
90°-120°	1.2	0.0
90°-150°	96.1	3.5
90°-180°	1368.0	50.0
0°-180°	2736.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3466	
5°	3338	305
15°	2197	589
25°	782	378
35°	64	89
45°	4	4
55°	2	2
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	1	1
125°	2	2
135°	4	4
145°	64	89
155°	782	378
165°	2197	589
175°	3338	305
180°	3466	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3465.6
1°	3453.0
2°	3432.9
3°	3410.0
4°	3380.0
5°	3338.1
6°	3282.0
7°	3210.6
8°	3118.0
9°	3017.2
10°	2909.9
11°	2788.4
12°	2658.2
13°	2517.1
14°	2360.7
15°	2197.2
16°	2024.0
17°	1844.7
18°	1666.0
19°	1492.8
20°	1326.1
21°	1177.9
22°	1045.5
23°	934.4
24°	849.9
25°	782.4
26°	731.7
27°	692.5
28°	657.6
29°	598.2
30°	508.9
32.5°	243.0
35°	63.7
37.5°	33.8
40°	16.9
42.5°	5.4
45°	3.8
47.5°	3.3
50°	2.7
52.5°	2.2
55°	1.6
57.5°	1.6
60°	1.1
62.5°	1.1
65°	1.1



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.5
70°	0.5
72.5°	0.5
75°	0.0
77.5°	0.0
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°	0.0
105°	0.0
107.5°	0.5
110°	0.5
112.5°	0.5
115°	1.1
117.5°	1.1
120°	1.1
122.5°	1.6
125°	1.6
127.5°	2.2
130°	2.7
132.5°	3.3
135°	3.8
137.5°	5.4
140°	16.9
142.5°	33.8
145°	63.7
147.5°	243.0
150°	508.9
151°	598.2
152°	657.6
153°	692.5
154°	731.7
155°	782.4
156°	849.9
157°	934.4
158°	1045.5
159°	1177.9
160°	1326.1
161°	1492.8



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CANDELA DISTRIBUTION (continued):

	0°
162°	1666.0
163°	1844.7
164°	2024.0
165°	2197.2
166°	2360.7
167°	2517.1
168°	2658.2
169°	2788.4
170°	2909.9
171°	3017.2
172°	3118.0
173°	3210.6
174°	3282.0
175°	3338.1
176°	3380.0
177°	3410.0
178°	3432.9
179°	3453.0
180°	3465.6

(END OF REPORT)