

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: P222053

Luminaire Tested: **9004-W2-FL-LED3097-W-BK-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222053
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29499)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9004-W2-FL-LED3097-W-BK-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, WIDE FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3938.7 lumens
Efficiency: N/A
Efficacy: 69.1 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

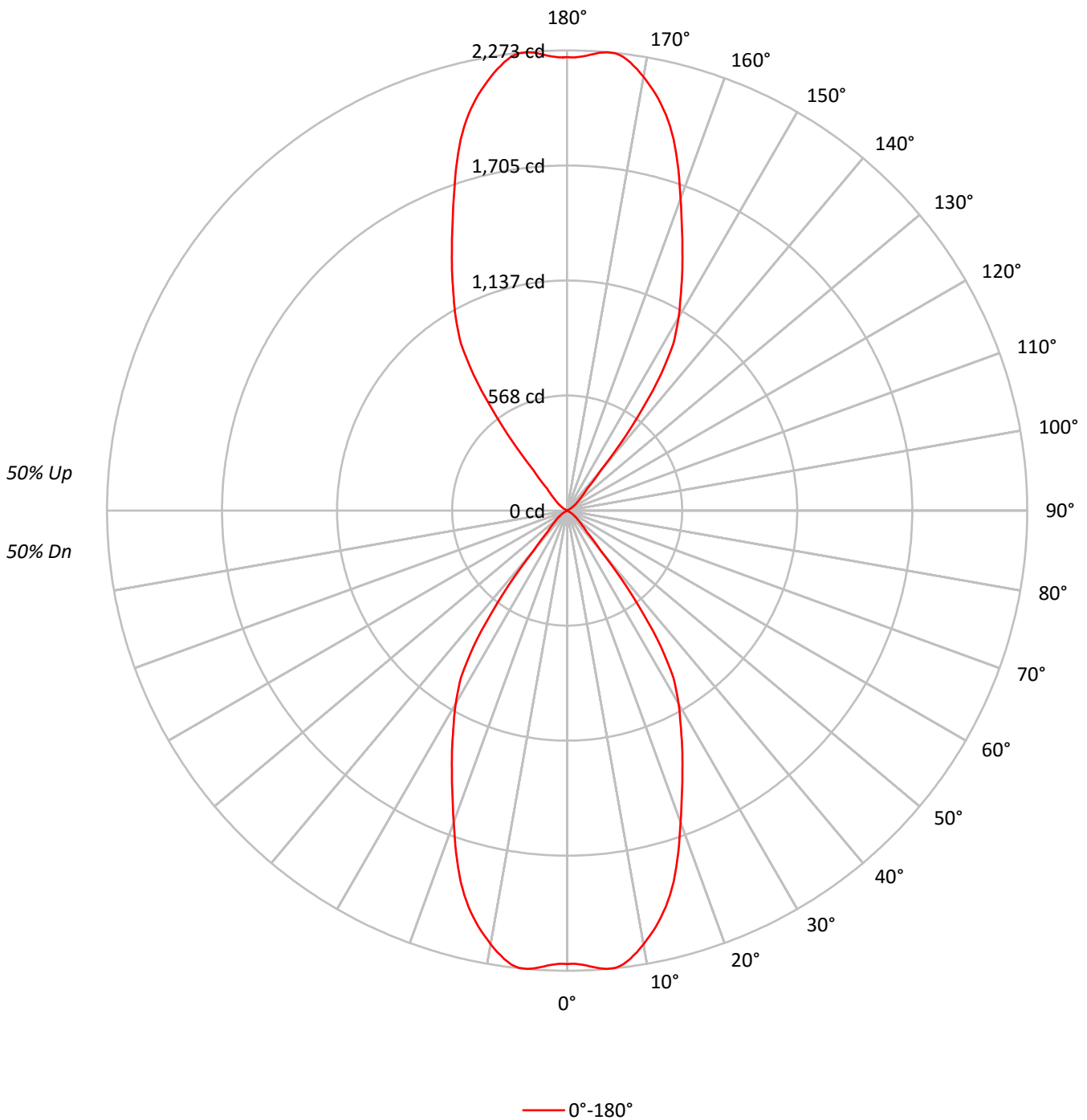
Input Watts (W): 57
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	97	94	91	92	90	87	85	76	75	73		64	63	62		53	53	52	47
2	93	88	83	79	86	81	77	74	70	67	65		60	58	56		50	49	48	43
3	87	80	74	69	81	74	69	65	65	61	58		56	53	51		47	46	44	40
4	81	73	66	61	76	68	63	58	60	56	52		52	49	47		44	42	41	38
5	76	67	60	55	71	63	57	53	55	51	48		48	45	43		42	40	38	35
6	71	61	55	50	66	58	52	48	51	47	43		45	42	39		39	37	35	33
7	67	57	50	45	62	54	48	44	48	43	40		42	39	36		37	35	33	31
8	63	52	46	41	59	50	44	40	45	40	37		40	36	34		35	33	31	29
9	59	49	42	38	56	46	41	37	42	37	34		37	34	31		33	31	29	27
10	56	46	39	35	52	43	38	34	39	35	32		35	32	29		31	29	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	276245
5°	281411
10°	272465
15°	250937
20°	215046
25°	183377
30°	156827
35°	117224
40°	41591
45°	19450
50°	12876
55°	8645
60°	4342
65°	1022
70°	757
75°	667
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.9	5.4
10°-20°	542.4	13.8
20°-30°	619.1	15.7
30°-40°	454.5	11.5
40°-50°	96.5	2.4
50°-60°	36.4	0.9
60°-70°	5.2	0.1
70°-80°	1.4	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	1.4	0.0
110°-120°	5.2	0.1
120°-130°	36.4	0.9
130°-140°	96.5	2.4
140°-150°	454.5	11.5
150°-160°	619.1	15.7
160°-170°	542.4	13.8
170°-180°	213.9	5.4
0°-30°	1375.4	34.9
0°-40°	1829.9	46.5
0°-60°	1962.8	49.8
0°-90°	1969.3	50.0
90°-120°	6.5	0.2
90°-150°	594.0	15.1
90°-180°	1969.0	50.0
0°-180°	3938.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2240	
5°	2273	214
15°	1965	542
25°	1347	619
35°	778	455
45°	112	96
55°	40	36
65°	4	5
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	4	5
125°	40	36
135°	112	96
145°	778	455
155°	1347	619
165°	1965	542
175°	2273	214
180°	2240	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2239.6
1°	2238.9
2°	2244.6
3°	2255.9
4°	2266.4
5°	2272.8
6°	2271.4
7°	2259.4
8°	2236.1
9°	2207.2
10°	2175.4
11°	2139.4
12°	2102.7
13°	2061.0
14°	2015.9
15°	1965.1
16°	1907.2
17°	1842.9
18°	1776.6
19°	1706.7
20°	1638.3
21°	1574.7
22°	1513.3
23°	1455.4
24°	1400.4
25°	1347.4
26°	1295.9
27°	1243.7
28°	1193.6
29°	1147.0
30°	1101.1
32.5°	977.6
35°	778.5
37.5°	525.8
40°	258.3
42.5°	145.4
45°	111.5
47.5°	87.5
50°	67.1
52.5°	52.9
55°	40.2
57.5°	28.9
60°	17.6
62.5°	4.9
65°	3.5



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	2.8
70°	2.1
72.5°	2.1
75°	1.4
77.5°	0.7
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°	0.7
105°	1.4
107.5°	2.1
110°	2.1
112.5°	2.8
115°	3.5
117.5°	4.9
120°	17.6
122.5°	28.9
125°	40.2
127.5°	52.9
130°	67.1
132.5°	87.5
135°	111.5
137.5°	145.4
140°	258.3
142.5°	525.8
145°	778.5
147.5°	977.6
150°	1101.1
151°	1147.0
152°	1193.6
153°	1243.7
154°	1295.9
155°	1347.4
156°	1400.4
157°	1455.4
158°	1513.3
159°	1574.7
160°	1638.3
161°	1706.7



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CANDELA DISTRIBUTION (continued):

	0°
162°	1776.6
163°	1842.9
164°	1907.2
165°	1965.1
166°	2015.9
167°	2061.0
168°	2102.7
169°	2139.4
170°	2175.4
171°	2207.2
172°	2236.1
173°	2259.4
174°	2271.4
175°	2272.8
176°	2266.4
177°	2255.9
178°	2244.6
179°	2238.9
180°	2239.6

(END OF REPORT)