

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: P222088

Luminaire Tested: **9004-W2-FL-LED3597-M-BK-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222088
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29497)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9004-W2-FL-LED3597-M-BK-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, MEDIUM FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3500K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3493.0 lumens
Efficiency: N/A
Efficacy: 86.9 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

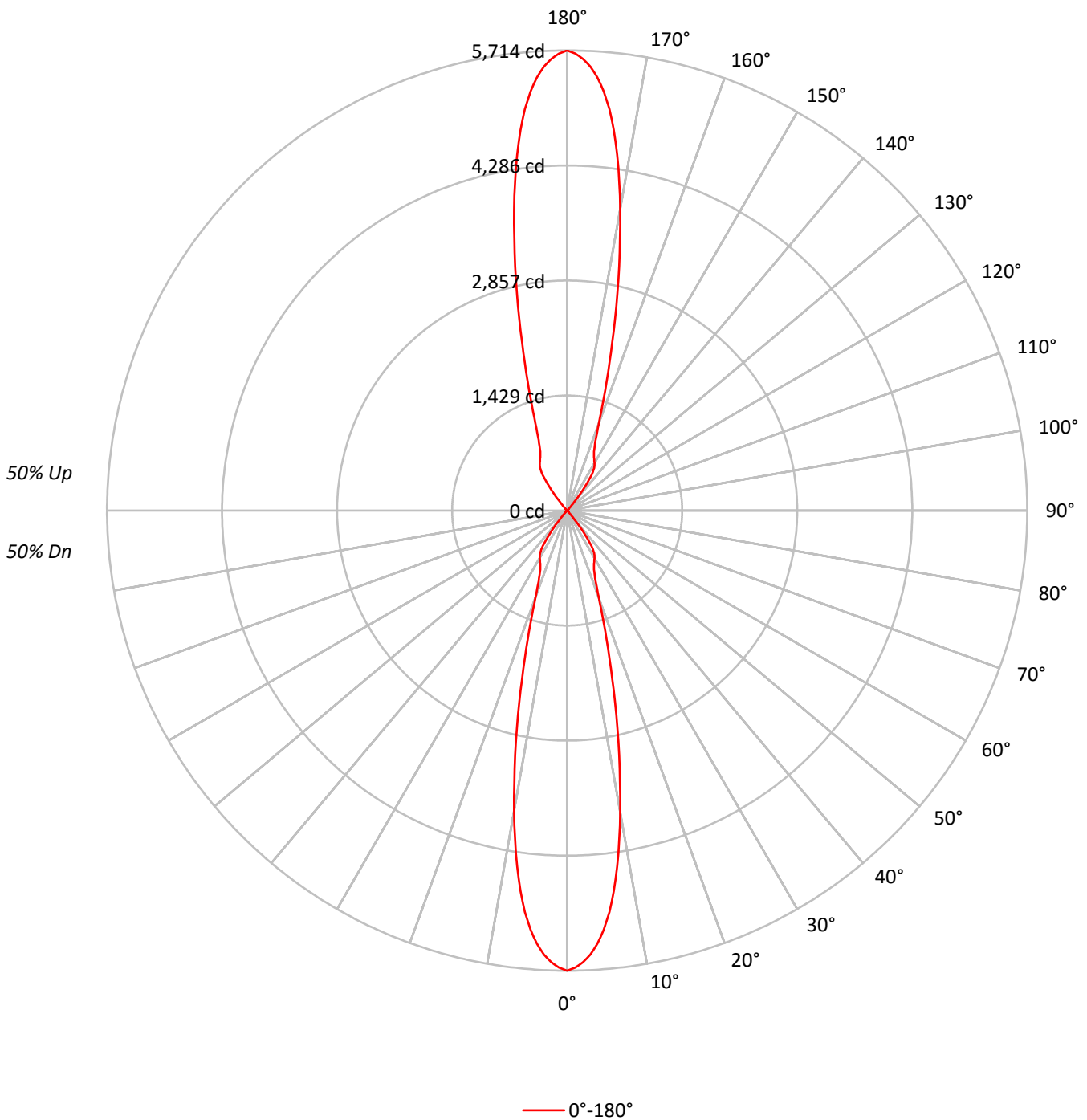
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	94	92	93	90	88	86	77	76	74		65	64	63		54	53	53	48
2	94	89	84	81	87	83	79	76	72	69	67		61	59	58		52	51	50	45
3	89	82	76	72	82	76	72	68	67	63	61		58	56	54		49	48	47	43
4	83	75	69	65	78	71	66	62	62	59	56		55	52	50		47	46	44	41
5	79	70	64	59	73	66	61	57	59	55	52		52	49	47		45	43	42	39
6	74	65	59	55	70	62	56	52	55	51	48		49	46	44		43	41	40	38
7	70	61	55	51	66	58	53	49	52	48	45		47	44	42		42	40	38	36
8	67	57	51	47	63	55	49	46	49	45	42		45	42	39		40	38	36	34
9	64	54	48	44	60	52	46	43	47	43	40		43	40	38		38	36	35	33
10	61	51	45	42	57	49	44	40	45	41	38		41	38	36		37	35	33	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	704846
5°	646782
10°	475243
15°	276668
20°	150872
25°	107231
30°	96637
35°	76117
40°	16923
45°	4640
50°	1535
55°	925
60°	617
65°	350
70°	216
75°	286
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.5	13.0
10°-20°	603.9	17.3
20°-30°	377.7	10.8
30°-40°	280.1	8.0
40°-50°	26.1	0.7
50°-60°	4.2	0.1
60°-70°	1.4	0.0
70°-80°	0.6	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.6	0.0
110°-120°	1.4	0.0
120°-130°	4.2	0.1
130°-140°	26.1	0.7
140°-150°	280.1	8.0
150°-160°	377.7	10.8
160°-170°	603.9	17.3
170°-180°	452.5	13.0
0°-30°	1434.1	41.1
0°-40°	1714.2	49.1
0°-60°	1744.5	49.9
0°-90°	1746.5	50.0
90°-120°	2.0	0.1
90°-150°	312.4	8.9
90°-180°	1747.0	50.0
0°-180°	3493.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5714	
5°	5224	453
15°	2167	604
25°	788	378
35°	506	280
45°	27	26
55°	4	4
65°	1	1
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	1	1
125°	4	4
135°	27	26
145°	506	280
155°	788	378
165°	2167	604
175°	5224	453
180°	5714	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5714.4
1°	5676.7
2°	5612.4
3°	5519.7
4°	5392.4
5°	5223.7
6°	5014.2
7°	4761.5
8°	4466.7
9°	4137.9
10°	3794.4
11°	3442.7
12°	3102.2
13°	2770.4
14°	2455.2
15°	2166.6
16°	1904.0
17°	1674.7
18°	1468.9
19°	1294.7
20°	1149.4
21°	1034.5
22°	942.4
23°	874.4
24°	824.4
25°	787.9
26°	760.7
27°	737.2
28°	715.6
29°	697.1
30°	678.5
32.5°	627.2
35°	505.5
37.5°	305.9
40°	105.1
42.5°	36.5
45°	26.6
47.5°	19.2
50°	8.0
52.5°	6.2
55°	4.3
57.5°	3.1
60°	2.5
62.5°	1.9
65°	1.2



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	1.2
70°	0.6
72.5°	0.6
75°	0.6
77.5°	0.6
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°	0.6
105°	0.6
107.5°	0.6
110°	0.6
112.5°	1.2
115°	1.2
117.5°	1.9
120°	2.5
122.5°	3.1
125°	4.3
127.5°	6.2
130°	8.0
132.5°	19.2
135°	26.6
137.5°	36.5
140°	105.1
142.5°	305.9
145°	505.5
147.5°	627.2
150°	678.5
151°	697.1
152°	715.6
153°	737.2
154°	760.7
155°	787.9
156°	824.4
157°	874.4
158°	942.4
159°	1034.5
160°	1149.4
161°	1294.7



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CANDELA DISTRIBUTION (continued):

	0°
162°	1468.9
163°	1674.7
164°	1904.0
165°	2166.6
166°	2455.2
167°	2770.4
168°	3102.2
169°	3442.7
170°	3794.4
171°	4137.9
172°	4466.7
173°	4761.5
174°	5014.2
175°	5223.7
176°	5392.4
177°	5519.7
178°	5612.4
179°	5676.7
180°	5714.4

(END OF REPORT)