

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: P222101

Luminaire Tested: **9004-W2-FL-LED3597-W-BK-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222101
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-LED3597-W-BK-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, WIDE FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3500K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4467.7 lumens
Efficiency: N/A
Efficacy: 78.4 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

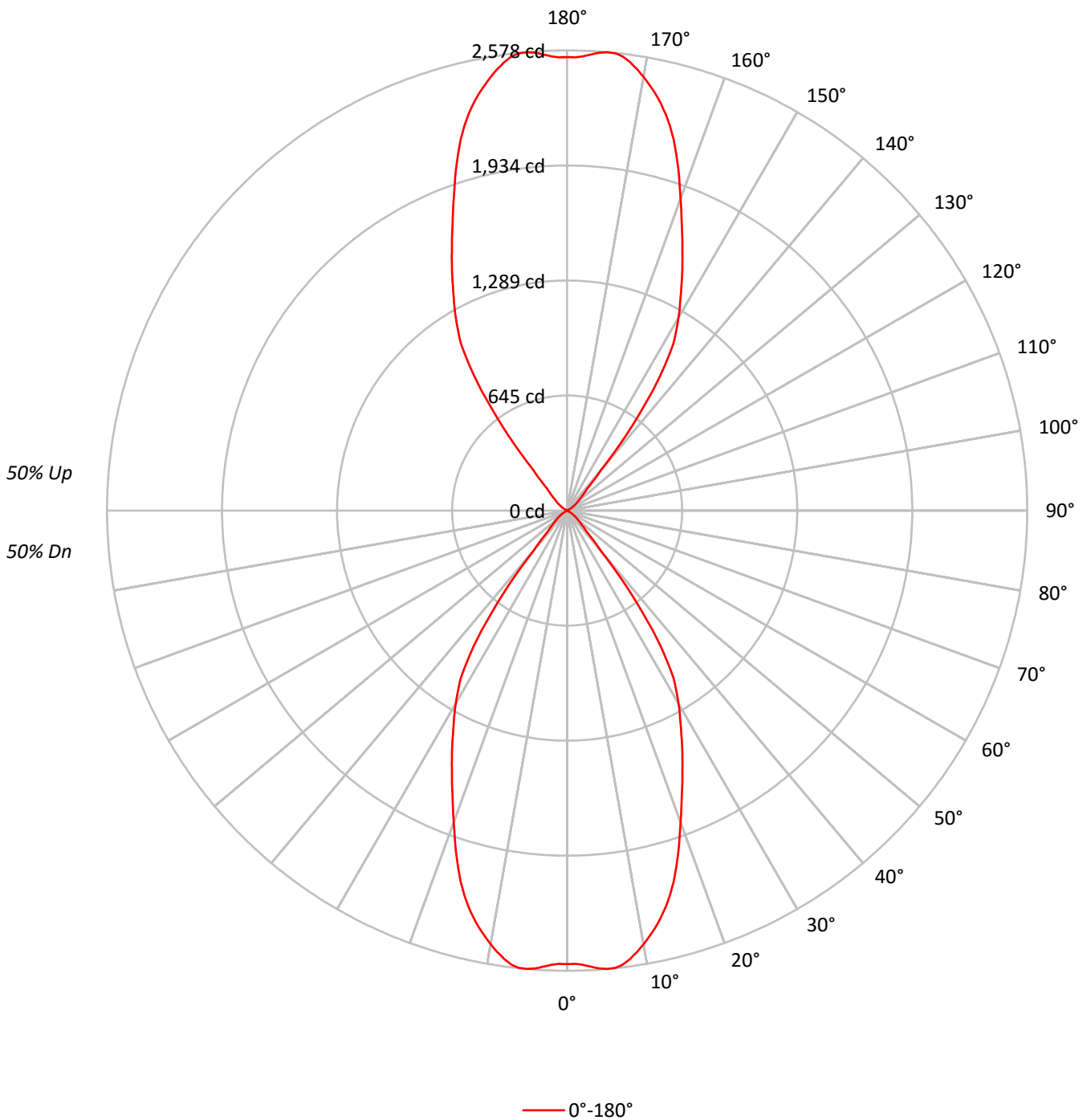
Input Watts (W): 57
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	313347
5°	319200
10°	309051
15°	284623
20°	243910
25°	208010
30°	177892
35°	132975
40°	47178
45°	22066
50°	14603
55°	9806
60°	4934
65°	1167
70°	866
75°	763
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.6	5.4
10°-20°	615.2	13.8
20°-30°	702.3	15.7
30°-40°	515.6	11.5
40°-50°	109.4	2.4
50°-60°	41.3	0.9
60°-70°	5.9	0.1
70°-80°	1.6	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	1.6	0.0
110°-120°	5.9	0.1
120°-130°	41.3	0.9
130°-140°	109.4	2.4
140°-150°	515.6	11.5
150°-160°	702.3	15.7
160°-170°	615.2	13.8
170°-180°	242.6	5.4
0°-30°	1560.0	34.9
0°-40°	2075.6	46.5
0°-60°	2226.4	49.8
0°-90°	2233.9	50.0
90°-120°	7.5	0.2
90°-150°	673.8	15.1
90°-180°	2234.0	50.0
0°-180°	4467.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2540	
5°	2578	243
15°	2229	615
25°	1528	702
35°	883	516
45°	126	109
55°	46	41
65°	4	6
75°	2	2
85°	0	0
90°	0	0
95°	0	0
105°	2	2
115°	4	6
125°	46	41
135°	126	109
145°	883	516
155°	1528	702
165°	2229	615
175°	2578	243
180°	2540	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2540.4
1°	2539.6
2°	2546.0
3°	2558.8
4°	2570.8
5°	2578.0
6°	2576.4
7°	2562.8
8°	2536.3
9°	2503.5
10°	2467.5
11°	2426.7
12°	2385.0
13°	2337.8
14°	2286.6
15°	2228.9
16°	2163.3
17°	2090.4
18°	2015.1
19°	1935.9
20°	1858.2
21°	1786.2
22°	1716.5
23°	1650.9
24°	1588.4
25°	1528.4
26°	1469.9
27°	1410.7
28°	1353.8
29°	1301.0
30°	1249.0
32.5°	1108.9
35°	883.1
37.5°	596.5
40°	293.0
42.5°	164.9
45°	126.5
47.5°	99.3
50°	76.1
52.5°	60.0
55°	45.6
57.5°	32.8
60°	20.0
62.5°	5.6
65°	4.0



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	3.2
70°	2.4
72.5°	2.4
75°	1.6
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°	1.6
107.5°	2.4
110°	2.4
112.5°	3.2
115°	4.0
117.5°	5.6
120°	20.0
122.5°	32.8
125°	45.6
127.5°	60.0
130°	76.1
132.5°	99.3
135°	126.5
137.5°	164.9
140°	293.0
142.5°	596.5
145°	883.1
147.5°	1108.9
150°	1249.0
151°	1301.0
152°	1353.8
153°	1410.7
154°	1469.9
155°	1528.4
156°	1588.4
157°	1650.9
158°	1716.5
159°	1786.2
160°	1858.2
161°	1935.9



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CANDELA DISTRIBUTION (continued):

	0°
162°	2015.1
163°	2090.4
164°	2163.3
165°	2228.9
166°	2286.6
167°	2337.8
168°	2385.0
169°	2426.7
170°	2467.5
171°	2503.5
172°	2536.3
173°	2562.8
174°	2576.4
175°	2578.0
176°	2570.8
177°	2558.8
178°	2546.0
179°	2539.6
180°	2540.4

(END OF REPORT)