

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: P222005

Luminaire Tested: **9004-W2-FL-LED2797-W-BK-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222005
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-LED2797-W-BK-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, WIDE FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 2700K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3902.1 lumens
Efficiency: N/A
Efficacy: 68.5 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

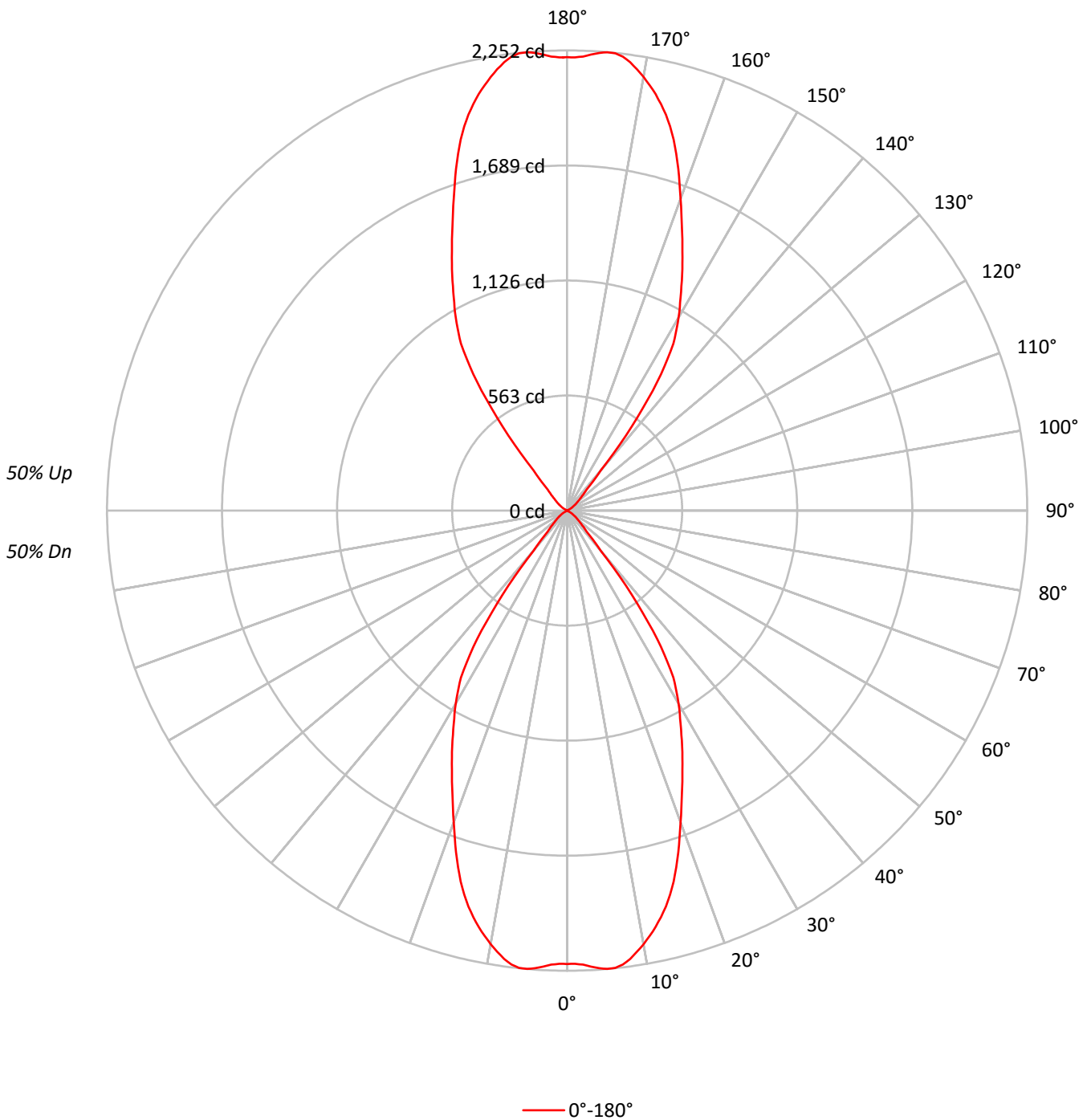
Input Watts (W): 57
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	273667
5°	278786
10°	269923
15°	248587
20°	213038
25°	181676
30°	155360
35°	116140
40°	41204
45°	19275
50°	12742
55°	8580
60°	4317
65°	1022
70°	757
75°	667
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.9	5.4
10°-20°	537.3	13.8
20°-30°	613.3	15.7
30°-40°	450.3	11.5
40°-50°	95.6	2.4
50°-60°	36.1	0.9
60°-70°	5.1	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°	5.1	0.1
120°-130°	36.1	0.9
130°-140°	95.6	2.4
140°-150°	450.3	11.5
150°-160°	613.3	15.7
160°-170°	537.3	13.8
170°-180°	211.9	5.4
0°-30°	1362.5	34.9
0°-40°	1812.8	46.5
0°-60°	1944.5	49.8
0°-90°	1951.0	50.0
90°-120°	6.5	0.2
90°-150°	588.5	15.1
90°-180°	1951.0	50.0
0°-180°	3902.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2219	
5°	2252	212
15°	1947	537
25°	1335	613
35°	771	450
45°	110	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°	110	96
145°	771	450
155°	1335	613
165°	1947	537
175°	2252	212
180°	2219	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2218.7
1°	2218.0
2°	2223.6
3°	2234.8
4°	2245.3
5°	2251.6
6°	2250.2
7°	2238.3
8°	2215.2
9°	2186.5
10°	2155.1
11°	2119.4
12°	2083.1
13°	2041.8
14°	1997.0
15°	1946.7
16°	1889.4
17°	1825.7
18°	1760.0
19°	1690.8
20°	1623.0
21°	1560.0
22°	1499.2
23°	1441.8
24°	1387.3
25°	1334.9
26°	1283.8
27°	1232.1
28°	1182.4
29°	1136.3
30°	1090.8
32.5°	968.5
35°	771.3
37.5°	520.9
40°	255.9
42.5°	144.0
45°	110.5
47.5°	86.7
50°	66.4
52.5°	52.4
55°	39.9
57.5°	28.7
60°	17.5
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°	17.5
122.5°	28.7
125°	39.9
127.5°	52.4
130°	66.4
132.5°	86.7
135°	110.5
137.5°	144.0
140°	255.9
142.5°	520.9
145°	771.3
147.5°	968.5
150°	1090.8
151°	1136.3
152°	1182.4
153°	1232.1
154°	1283.8
155°	1334.9
156°	1387.3
157°	1441.8
158°	1499.2
159°	1560.0
160°	1623.0
161°	1690.8



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CANDELA DISTRIBUTION (continued):

	0°
162°	1760.0
163°	1825.7
164°	1889.4
165°	1946.7
166°	1997.0
167°	2041.8
168°	2083.1
169°	2119.4
170°	2155.1
171°	2186.5
172°	2215.2
173°	2238.3
174°	2250.2
175°	2251.6
176°	2245.3
177°	2234.8
178°	2223.6
179°	2218.0
180°	2218.7

(END OF REPORT)