

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: P221997

Luminaire Tested: **9004-W2-FL-LED2797-S-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221997
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29496)
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-S-BK-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, SPOT OPTIC, BLACK HOUSING.
Light Source: (1) 2700K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

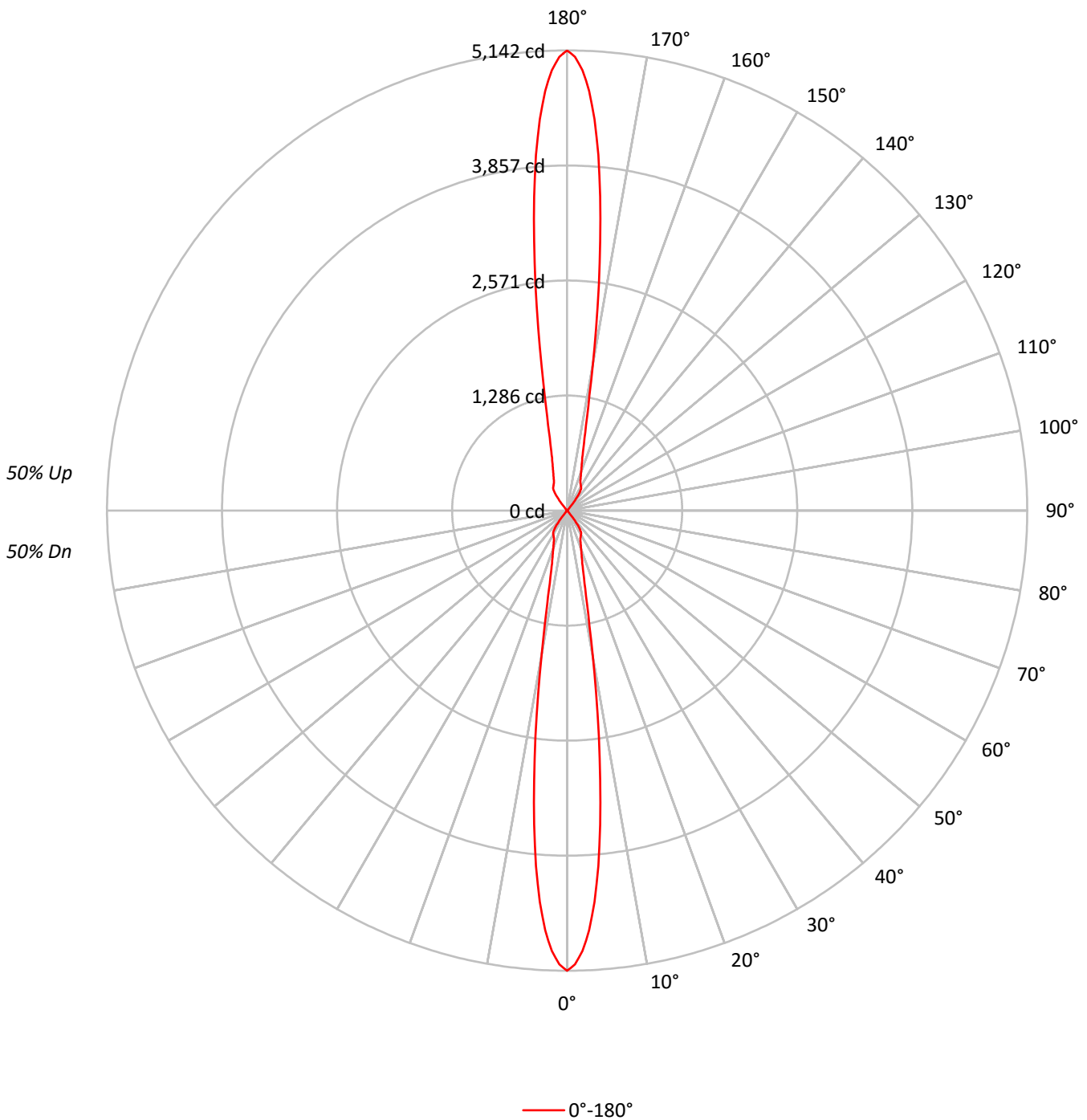
Lumens per Lamp: N/A
Luminaire Lumens: 1637.7 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Spacing Criteria (0/90/45): 0.27 / 0.27 / 0.27
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 19.7
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	54	53	48
2	95	89	85	81	88	83	80	76	72	69	67		62	60	58		52	51	50	46
3	89	82	77	73	83	77	72	69	67	64	62		58	56	54		50	49	48	44
4	84	76	70	66	78	72	67	63	63	60	57		55	53	51		48	46	45	42
5	79	71	65	60	74	67	62	58	59	56	53		53	50	48		46	44	43	40
6	75	66	60	56	70	63	58	54	56	52	49		50	47	45		44	43	41	39
7	71	62	56	52	67	59	54	50	53	49	47		48	45	43		43	41	40	37
8	68	59	53	49	64	56	51	47	51	47	44		46	43	41		41	39	38	36
9	65	56	50	46	61	53	48	45	48	45	42		44	41	39		40	38	37	35
10	62	53	47	44	59	51	46	42	46	43	40		42	40	38		39	37	35	34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	634219
5°	493670
10°	205608
15°	86936
20°	59658
25°	47620
30°	44010
35°	36003
40°	7584
45°	1727
50°	614
55°	495
60°	296
65°	175
70°	108
75°	143
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.6	18.3
10°-20°	210.0	12.8
20°-30°	165.5	10.1
30°-40°	130.3	8.0
40°-50°	10.5	0.6
50°-60°	2.0	0.1
60°-70°	0.6	0.0
70°-80°	0.3	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.3	0.0
110°-120°	0.6	0.0
120°-130°	2.0	0.1
130°-140°	10.5	0.6
140°-150°	130.3	8.0
150°-160°	165.5	10.1
160°-170°	210.0	12.8
170°-180°	299.6	18.3
0°-30°	675.1	41.2
0°-40°	805.4	49.2
0°-60°	818.0	49.9
0°-90°	818.8	50.0
90°-120°	0.8	0.1
90°-150°	143.7	8.8
90°-180°	819.0	50.0
0°-180°	1637.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5142	
5°	3987	300
15°	681	210
25°	350	166
35°	239	130
45°	10	11
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°	10	11
145°	239	130
155°	350	166
165°	681	210
175°	3987	300
180°	5142	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5141.8
1°	5071.0
2°	4924.0
3°	4696.0
4°	4384.1
5°	3987.1
6°	3528.8
7°	3033.6
8°	2547.8
9°	2058.8
10°	1641.6
11°	1308.7
12°	1067.2
13°	896.2
14°	772.3
15°	680.8
16°	612.1
17°	561.8
18°	523.5
19°	487.0
20°	454.5
21°	427.7
22°	403.7
23°	382.6
24°	364.2
25°	349.9
26°	339.1
27°	330.9
28°	323.0
29°	316.0
30°	309.0
32.5°	291.4
35°	239.1
37.5°	142.6
40°	47.1
42.5°	14.0
45°	9.9
47.5°	7.0
50°	3.2
52.5°	2.9
55°	2.3
57.5°	1.8
60°	1.2
62.5°	0.6
65°	0.6



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.3
70°	0.3
72.5°	0.3
75°	0.3
77.5°	0.3
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°	0.3
105°	0.3
107.5°	0.3
110°	0.3
112.5°	0.3
115°	0.6
117.5°	0.6
120°	1.2
122.5°	1.8
125°	2.3
127.5°	2.9
130°	3.2
132.5°	7.0
135°	9.9
137.5°	14.0
140°	47.1
142.5°	142.6
145°	239.1
147.5°	291.4
150°	309.0
151°	316.0
152°	323.0
153°	330.9
154°	339.1
155°	349.9
156°	364.2
157°	382.6
158°	403.7
159°	427.7
160°	454.5
161°	487.0



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CANDELA DISTRIBUTION (continued):

	0°
162°	523.5
163°	561.8
164°	612.1
165°	680.8
166°	772.3
167°	896.2
168°	1067.2
169°	1308.7
170°	1641.6
171°	2058.8
172°	2547.8
173°	3033.6
174°	3528.8
175°	3987.1
176°	4384.1
177°	4696.0
178°	4924.0
179°	5071.0
180°	5141.8

(END OF REPORT)