

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: P221781

Luminaire Tested: **9004-W2-[RW, RI]-LED3090-S-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221781
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29491)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9004-W2-[RW, RI]-LED3090-S-BK-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, SPOT OPTIC, BLACK HOUSING.
Light Source: (1) 3000K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1656.0 lumens
Efficiency: N/A
Efficacy: 84.1 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

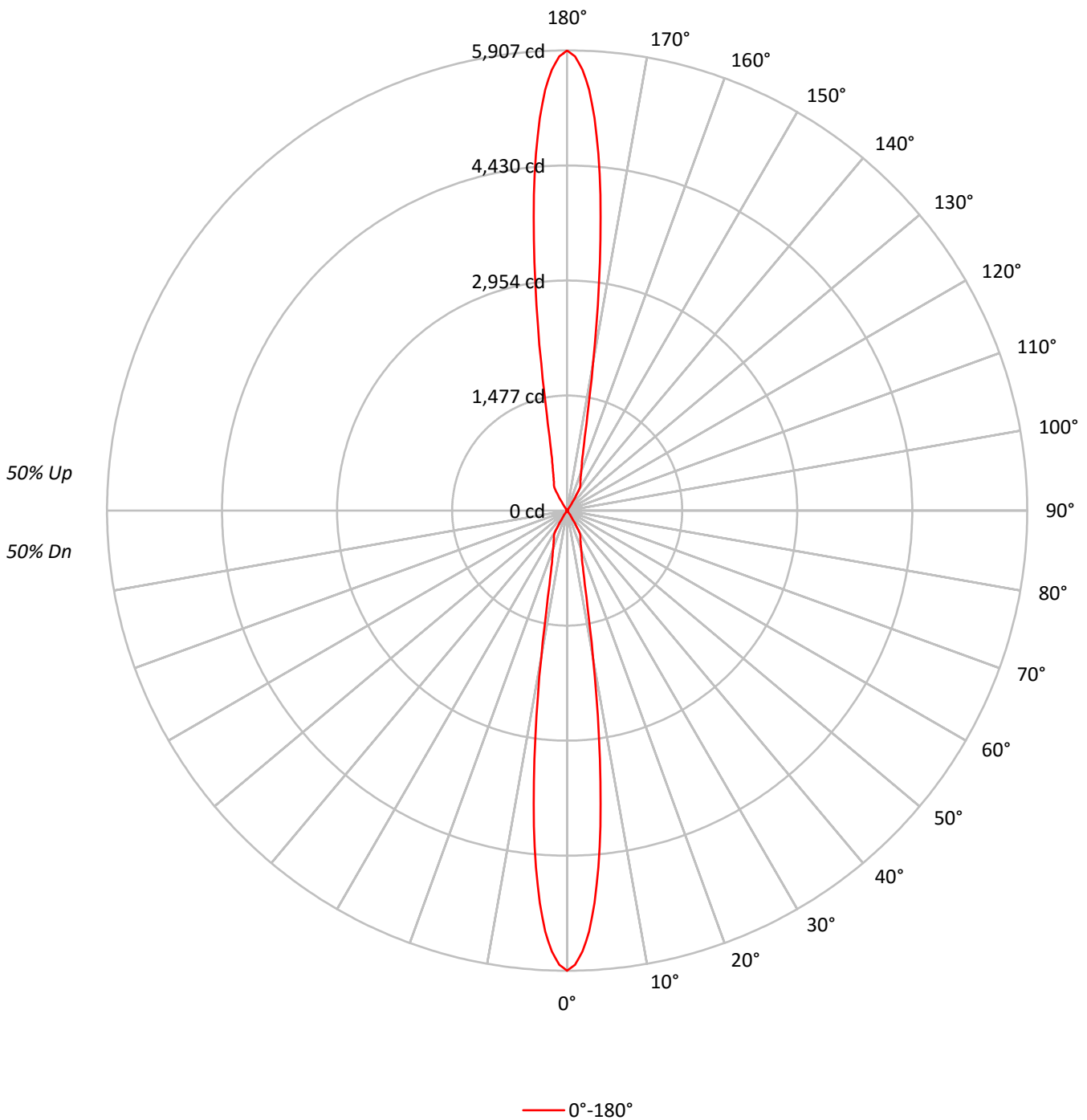
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	95	93	93	91	88	86	78	76	75	65	65	64	54	54	53	48
2	95	90	86	82	88	84	80	77	73	70	68	62	61	59	53	52	51	47
3	90	83	78	74	83	78	74	70	68	65	63	59	57	56	51	50	49	45
4	85	77	72	68	79	73	68	64	64	61	58	57	54	53	49	48	47	44
5	81	72	67	62	75	68	63	60	61	57	55	54	52	50	48	46	45	42
6	77	68	62	58	72	65	60	56	58	54	52	52	49	48	46	45	43	41
7	73	64	58	54	69	61	56	53	55	52	49	50	47	45	45	43	42	40
8	70	61	55	51	66	58	53	50	53	49	47	48	46	44	44	42	41	39
9	67	58	52	49	63	56	51	47	51	47	45	47	44	42	42	41	39	38
10	64	55	50	47	61	53	48	45	49	45	43	45	42	41	41	40	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	728578
5°	569223
10°	239763
15°	101608
20°	68794
25°	54616
30°	40435
35°	3674
40°	1336
45°	401
50°	326
55°	366
60°	247
65°	204
70°	108
75°	143
80°	213
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.1	20.9
10°-20°	244.5	14.8
20°-30°	186.7	11.3
30°-40°	45.8	2.8
40°-50°	2.5	0.1
50°-60°	1.4	0.1
60°-70°	0.7	0.0
70°-80°	0.3	0.0
80°-90°	0.1	0.0
90°-100°	0.2	0.0
100°-110°	0.3	0.0
110°-120°	0.7	0.0
120°-130°	1.4	0.1
130°-140°	2.5	0.1
140°-150°	45.8	2.8
150°-160°	186.7	11.3
160°-170°	244.5	14.8
170°-180°	346.1	20.9
0°-30°	777.3	46.9
0°-40°	823.1	49.7
0°-60°	826.9	49.9
0°-90°	828.0	50.0
90°-120°	1.2	0.1
90°-150°	50.8	3.1
90°-180°	828.0	50.0
0°-180°	1656.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5907	
5°	4597	346
15°	796	245
25°	401	187
35°	24	46
45°	2	2
55°	2	1
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	1	1
125°	2	1
135°	2	2
145°	24	46
155°	401	187
165°	796	245
175°	4597	346
180°	5907	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	5906.8
1°	5831.0
2°	5664.2
3°	5408.3
4°	5050.0
5°	4597.3
6°	4076.9
7°	3505.0
8°	2929.2
9°	2402.1
10°	1914.3
11°	1528.0
12°	1245.1
13°	1044.9
14°	902.4
15°	795.7
16°	713.6
17°	653.9
18°	606.5
19°	562.2
20°	524.1
22.5°	452.1
25°	401.3
26°	387.7
27°	376.3
28°	365.0
29°	335.0
30°	283.9
32.5°	127.8
35°	24.4
37.5°	13.3
40°	8.3
42.5°	3.7
45°	2.3
47.5°	2.0
50°	1.7
52.5°	1.7
55°	1.7
57.5°	1.3
60°	1.0
62.5°	1.0
65°	0.7
67.5°	0.3
70°	0.3
72.5°	0.3



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CANDELA DISTRIBUTION (continued):

	0°
75°	0.3
77.5°	0.3
80°	0.3
82.5°	0.3
85°	0.0
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.3
100°	0.3
102.5°	0.3
105°	0.3
107.5°	0.3
110°	0.3
112.5°	0.3
115°	0.7
117.5°	1.0
120°	1.0
122.5°	1.3
125°	1.7
127.5°	1.7
130°	1.7
132.5°	2.0
135°	2.3
137.5°	3.7
140°	8.3
142.5°	13.3
145°	24.4
147.5°	127.8
150°	283.9
151°	335.0
152°	365.0
153°	376.3
154°	387.7
155°	401.3
157.5°	452.1
160°	524.1
161°	562.2
162°	606.5
163°	653.9
164°	713.6
165°	795.7
166°	902.4
167°	1044.9



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CANDELA DISTRIBUTION (continued):

	0°
168°	1245.1
169°	1528.0
170°	1914.3
171°	2402.1
172°	2929.2
173°	3505.0
174°	4076.9
175°	4597.3
176°	5050.0
177°	5408.3
178°	5664.2
179°	5831.0
180°	5906.8

(END OF REPORT)