

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: P221782

Luminaire Tested: **9004-W2-[RW, RI]-LED3090-S-BK-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221782
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-L2-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: 3057.7 lumens
Efficiency: N/A
Efficacy: 76.1 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

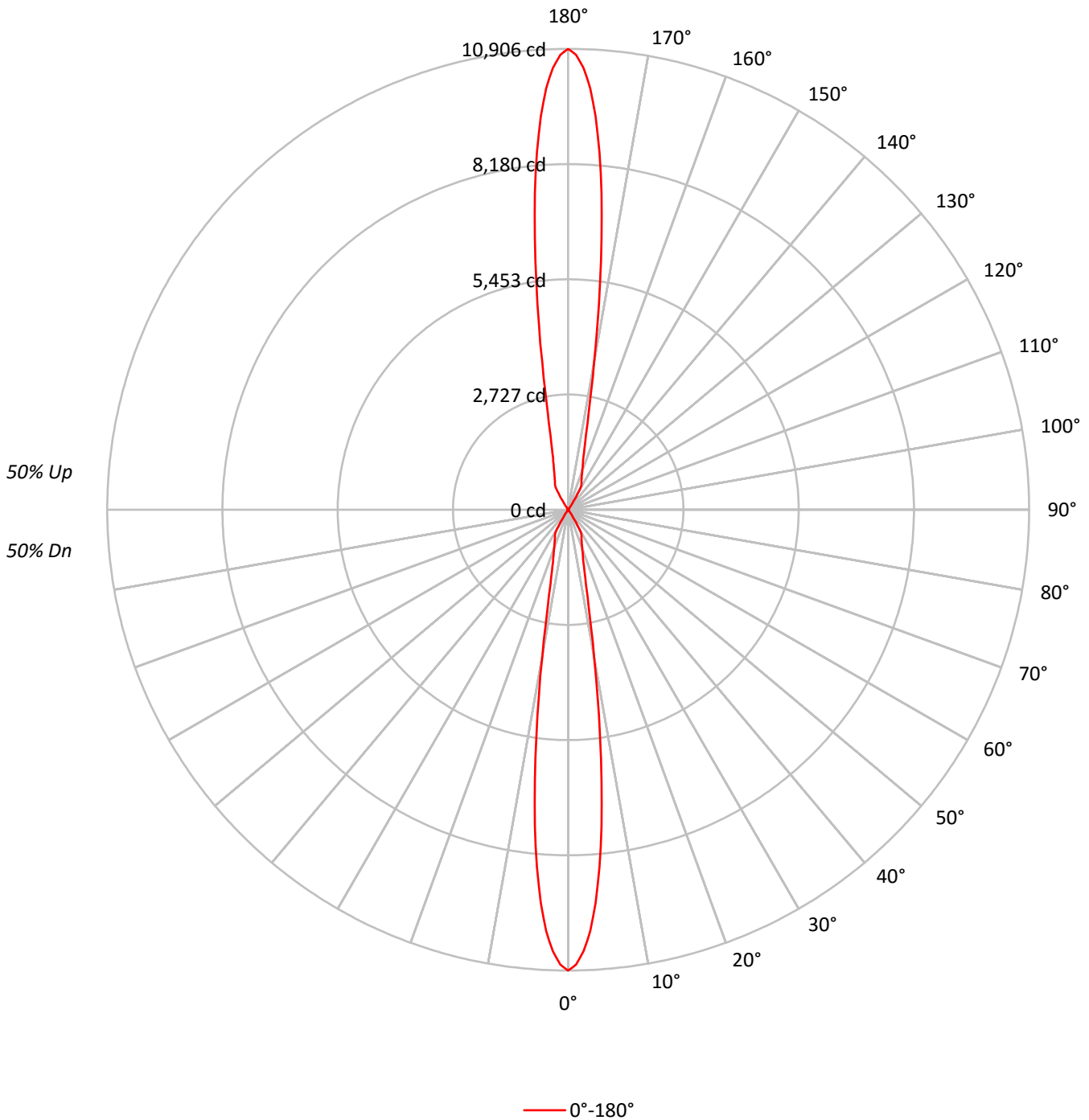
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1345244
5°	1051019
10°	442703
15°	187612
20°	127022
25°	100861
30°	74660
35°	6776
40°	2480
45°	750
50°	595
55°	667
60°	444
65°	350
70°	216
75°	286
80°	426
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	639.0	20.9
10°-20°	451.5	14.8
20°-30°	344.8	11.3
30°-40°	84.5	2.8
40°-50°	4.6	0.1
50°-60°	2.5	0.1
60°-70°	1.2	0.0
70°-80°	0.6	0.0
80°-90°	0.2	0.0
90°-100°	0.4	0.0
100°-110°	0.6	0.0
110°-120°	1.2	0.0
120°-130°	2.5	0.1
130°-140°	4.6	0.1
140°-150°	84.5	2.8
150°-160°	344.8	11.3
160°-170°	451.5	14.8
170°-180°	639.0	20.9
0°-30°	1435.2	46.9
0°-40°	1519.8	49.7
0°-60°	1526.8	49.9
0°-90°	1528.9	50.0
90°-120°	2.2	0.1
90°-150°	93.8	3.1
90°-180°	1529.0	50.0
0°-180°	3057.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10906	
5°	8488	639
15°	1469	452
25°	741	345
35°	45	85
45°	4	5
55°	3	2
65°	1	1
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	1	1
125°	3	2
135°	4	5
145°	45	85
155°	741	345
165°	1469	452
175°	8488	639
180°	10906	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	10906.3
1°	10766.5
2°	10458.5
3°	9986.0
4°	9324.4
5°	8488.5
6°	7527.6
7°	6471.7
8°	5408.5
9°	4435.2
10°	3534.6
11°	2821.3
12°	2298.9
13°	1929.3
14°	1666.3
15°	1469.2
16°	1317.6
17°	1207.4
18°	1119.9
19°	1038.0
20°	967.7
22.5°	834.7
25°	741.1
26°	715.8
27°	694.9
28°	673.9
29°	618.5
30°	524.2
32.5°	235.9
35°	45.0
37.5°	24.6
40°	15.4
42.5°	6.8
45°	4.3
47.5°	3.7
50°	3.1
52.5°	3.1
55°	3.1
57.5°	2.5
60°	1.8
62.5°	1.8
65°	1.2
67.5°	0.6
70°	0.6
72.5°	0.6



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CANDELA DISTRIBUTION (continued):

	0°
75°	0.6
77.5°	0.6
80°	0.6
82.5°	0.6
85°	0.0
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.6
100°	0.6
102.5°	0.6
105°	0.6
107.5°	0.6
110°	0.6
112.5°	0.6
115°	1.2
117.5°	1.8
120°	1.8
122.5°	2.5
125°	3.1
127.5°	3.1
130°	3.1
132.5°	3.7
135°	4.3
137.5°	6.8
140°	15.4
142.5°	24.6
145°	45.0
147.5°	235.9
150°	524.2
151°	618.5
152°	673.9
153°	694.9
154°	715.8
155°	741.1
157.5°	834.7
160°	967.7
161°	1038.0
162°	1119.9
163°	1207.4
164°	1317.6
165°	1469.2
166°	1666.3
167°	1929.3



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CANDELA DISTRIBUTION (continued):

	0°
168°	2298.9
169°	2821.3
170°	3534.6
171°	4435.2
172°	5408.5
173°	6471.7
174°	7527.6
175°	8488.5
176°	9324.4
177°	9986.0
178°	10458.5
179°	10766.5
180°	10906.3

(END OF REPORT)