

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: P221786

Luminaire Tested: **9004-W2-[RW, RI]-LED3090-S-WT-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221786
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29487)
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-WT-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, SPOT OPTIC, WHITE HOUSING.
Light Source: (1) 3000K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4215.6 lumens
Efficiency: N/A
Efficacy: 73.7 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

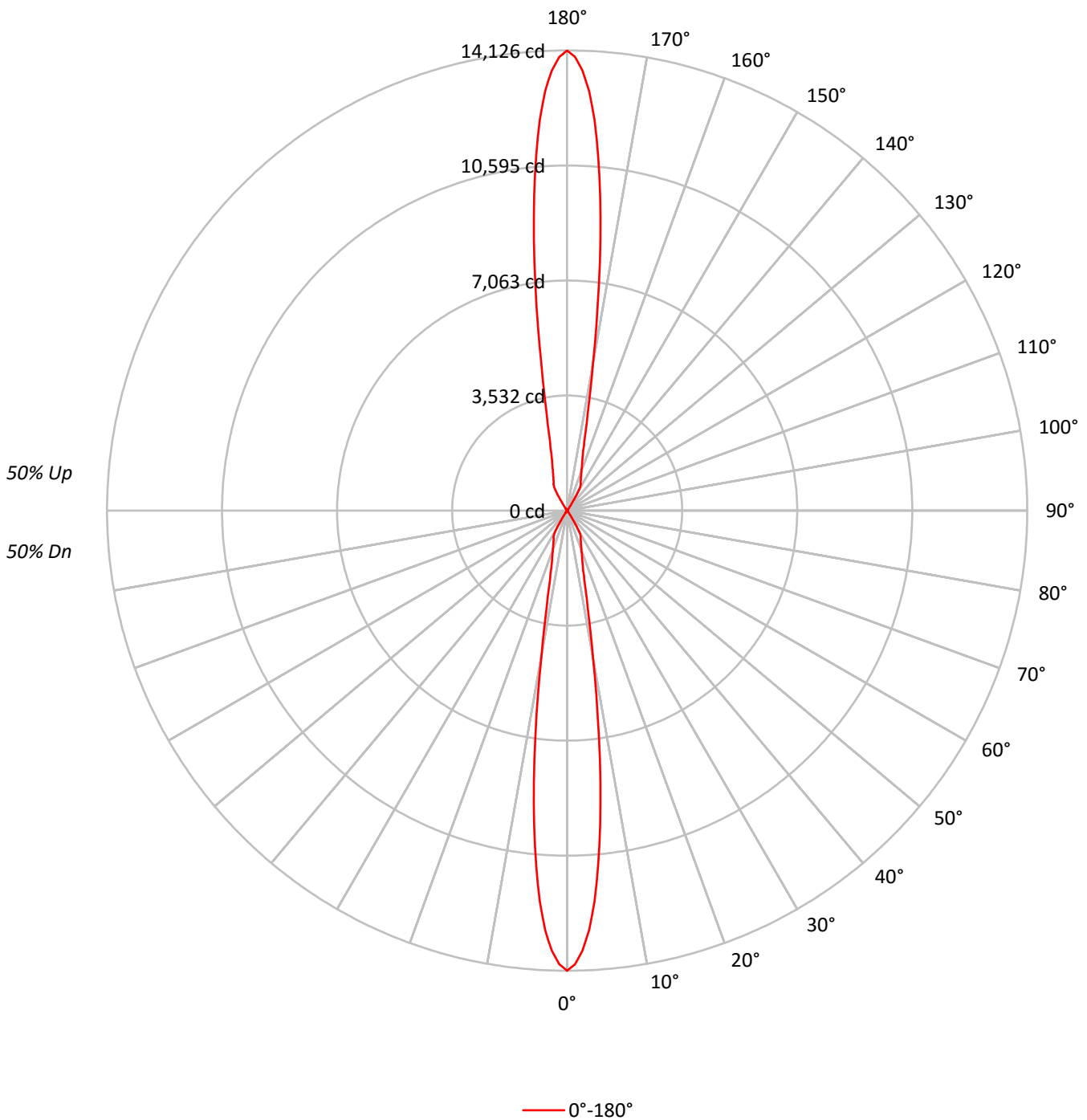
Input Watts (W): 57.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	97	94	92	93	90	88	86	77	75	74		65	64	63		54	53	53	48
2	94	89	85	81	87	83	79	76	72	69	67		61	60	58		52	51	50	46
3	89	82	77	72	83	77	72	69	67	64	61		58	56	54		50	48	47	44
4	84	76	70	66	78	72	67	63	63	60	57		55	53	51		48	46	45	42
5	79	71	65	61	74	67	62	58	60	56	53		53	50	48		46	45	43	41
6	75	67	61	56	71	63	58	54	57	53	50		50	48	46		45	43	42	39
7	72	63	57	53	67	60	54	51	54	50	47		48	46	44		43	42	40	38
8	68	59	54	50	65	57	52	48	51	48	45		47	44	42		42	40	39	37
9	66	56	51	47	62	54	49	46	49	46	43		45	42	40		41	39	38	36
10	63	54	48	45	59	52	47	43	47	44	41		43	41	39		40	38	36	35

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1742343
5°	1353949
10°	573751
15°	245293
20°	167503
25°	133484
30°	99799
35°	13221
40°	7069
45°	5146
50°	5507
55°	6000
60°	6685
65°	7676
70°	8908
75°	10628
80°	12502
85°	12454



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	825.2	19.6
10°-20°	591.3	14.0
20°-30°	456.3	10.8
30°-40°	126.4	3.0
40°-50°	24.5	0.6
50°-60°	25.0	0.6
60°-70°	26.0	0.6
70°-80°	23.3	0.6
80°-90°	9.8	0.2
90°-100°	9.8	0.2
100°-110°	23.3	0.6
110°-120°	26.0	0.6
120°-130°	25.0	0.6
130°-140°	24.5	0.6
140°-150°	126.4	3.0
150°-160°	456.3	10.8
160°-170°	591.3	14.0
170°-180°	825.2	19.6
0°-30°	1872.8	44.4
0°-40°	1999.2	47.4
0°-60°	2048.8	48.6
0°-90°	2107.8	50.0
90°-120°	59.0	1.4
90°-150°	235.0	5.6
90°-180°	2108.0	50.0
0°-180°	4215.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14126	
5°	10935	825
15°	1921	591
25°	981	456
35°	88	126
45°	30	24
55°	28	25
65°	26	26
75°	22	23
85°	9	9
90°	0	1
95°	9	9
105°	22	23
115°	26	26
125°	28	25
135°	30	24
145°	88	126
155°	981	456
165°	1921	591
175°	10935	825
180°	14126	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	14125.7
1°	13927.8
2°	13517.6
3°	12894.3
4°	12027.6
5°	10935.1
6°	9701.3
7°	8398.8
8°	6988.6
9°	5710.1
10°	4580.9
11°	3691.0
12°	3015.9
13°	2527.5
14°	2181.9
15°	1920.9
16°	1727.0
17°	1581.8
18°	1467.6
19°	1367.9
20°	1276.1
22.5°	1105.3
25°	980.8
26°	948.9
27°	921.8
28°	889.0
29°	818.0
30°	700.7
32.5°	336.8
35°	87.8
37.5°	56.7
40°	43.9
42.5°	32.7
45°	29.5
47.5°	28.7
50°	28.7
52.5°	27.9
55°	27.9
57.5°	27.9
60°	27.1
62.5°	27.1
65°	26.3
67.5°	25.5
70°	24.7
72.5°	23.9

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CANDELA DISTRIBUTION (continued):

	0°
75°	22.3
77.5°	20.7
80°	17.6
82.5°	14.4
85°	8.8
87.5°	4.0
90°	0.0
92.5°	4.0
95°	8.8
97.5°	14.4
100°	17.6
102.5°	20.7
105°	22.3
107.5°	23.9
110°	24.7
112.5°	25.5
115°	26.3
117.5°	27.1
120°	27.1
122.5°	27.9
125°	27.9
127.5°	27.9
130°	28.7
132.5°	28.7
135°	29.5
137.5°	32.7
140°	43.9
142.5°	56.7
145°	87.8
147.5°	336.8
150°	700.7
151°	818.0
152°	889.0
153°	921.8
154°	948.9
155°	980.8
157.5°	1105.3
160°	1276.1
161°	1367.9
162°	1467.6
163°	1581.8
164°	1727.0
165°	1920.9
166°	2181.9
167°	2527.5



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CANDELA DISTRIBUTION (continued):

	0°
168°	3015.9
169°	3691.0
170°	4580.9
171°	5710.1
172°	6988.6
173°	8398.8
174°	9701.3
175°	10935.1
176°	12027.6
177°	12894.3
178°	13517.6
179°	13927.8
180°	14125.7

(END OF REPORT)