

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: P221734

Luminaire Tested: **9004-W2-[RW, RI]-LED2790-S-BK-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221734
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]-LED2790-S-BK-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, SPOT OPTIC, BLACK HOUSING.
Light Source: (1) 2700K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2890.7 lumens
Efficiency: N/A
Efficacy: 71.9 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

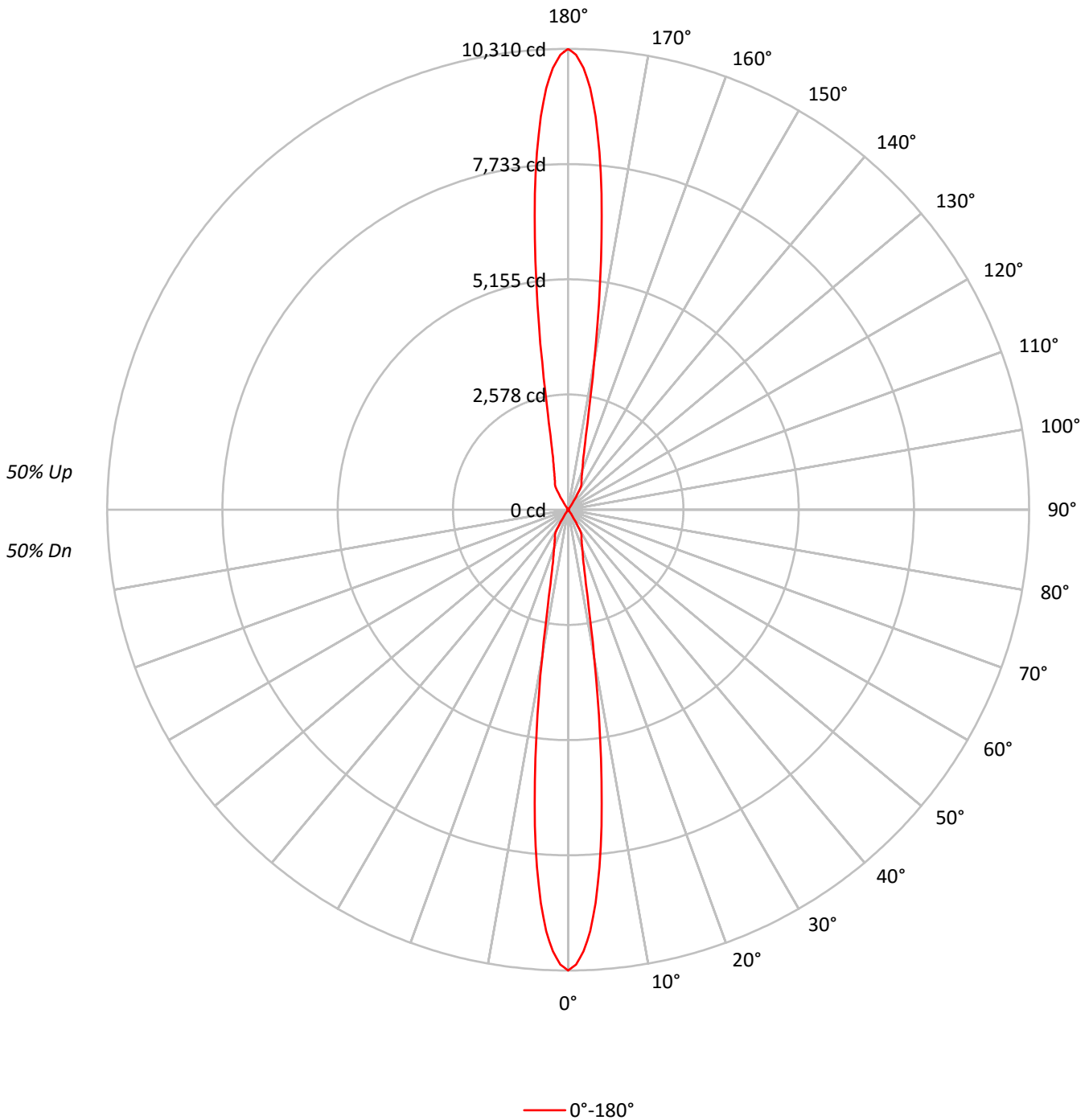
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1271706
5°	993568
10°	418505
15°	177358
20°	120078
25°	95336
30°	70587
35°	6400
40°	2351
45°	715
50°	556
55°	624
60°	419
65°	350
70°	216
75°	286
80°	426
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	604.1	20.9
10°-20°	426.8	14.8
20°-30°	325.9	11.3
30°-40°	79.9	2.8
40°-50°	4.3	0.1
50°-60°	2.3	0.1
60°-70°	1.1	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°	1.1	0.0
120°-130°	2.3	0.1
130°-140°	4.3	0.1
140°-150°	79.9	2.8
150°-160°	325.9	11.3
160°-170°	426.8	14.8
170°-180°	604.1	20.9
0°-30°	1356.8	46.9
0°-40°	1436.7	49.7
0°-60°	1443.3	49.9
0°-90°	1445.3	50.0
90°-120°	2.2	0.1
90°-150°	88.7	3.1
90°-180°	1446.0	50.0
0°-180°	2890.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10310	
5°	8024	604
15°	1389	427
25°	700	326
35°	42	80
45°	4	4
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	4
145°	42	80
155°	700	326
165°	1389	427
175°	8024	604
180°	10310	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	10310.1
1°	10177.9
2°	9886.8
3°	9440.1
4°	8814.7
5°	8024.5
6°	7116.1
7°	6117.9
8°	5112.8
9°	4192.8
10°	3341.4
11°	2667.1
12°	2173.3
13°	1823.9
14°	1575.2
15°	1388.9
16°	1245.6
17°	1141.4
18°	1058.7
19°	981.2
20°	914.8
22.5°	789.1
25°	700.5
26°	676.7
27°	656.9
28°	637.1
29°	584.7
30°	495.6
32.5°	223.0
35°	42.5
37.5°	23.3
40°	14.6
42.5°	6.4
45°	4.1
47.5°	3.5
50°	2.9
52.5°	2.9
55°	2.9
57.5°	2.3
60°	1.7
62.5°	1.7
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°	1.7
120°	1.7
122.5°	2.3
125°	2.9
127.5°	2.9
130°	2.9
132.5°	3.5
135°	4.1
137.5°	6.4
140°	14.6
142.5°	23.3
145°	42.5
147.5°	223.0
150°	495.6
151°	584.7
152°	637.1
153°	656.9
154°	676.7
155°	700.5
157.5°	789.1
160°	914.8
161°	981.2
162°	1058.7
163°	1141.4
164°	1245.6
165°	1388.9
166°	1575.2
167°	1823.9



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CANDELA DISTRIBUTION (continued):

	0°
168°	2173.3
169°	2667.1
170°	3341.4
171°	4192.8
172°	5112.8
173°	6117.9
174°	7116.1
175°	8024.5
176°	8814.7
177°	9440.1
178°	9886.8
179°	10177.9
180°	10310.1

(END OF REPORT)