

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: P221737

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221737
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]-LED2790-S-WT-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, SPOT OPTIC, WHITE HOUSING.
Light Source: (1) 2700K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3076.2 lumens
Efficiency: N/A
Efficacy: 76.5 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

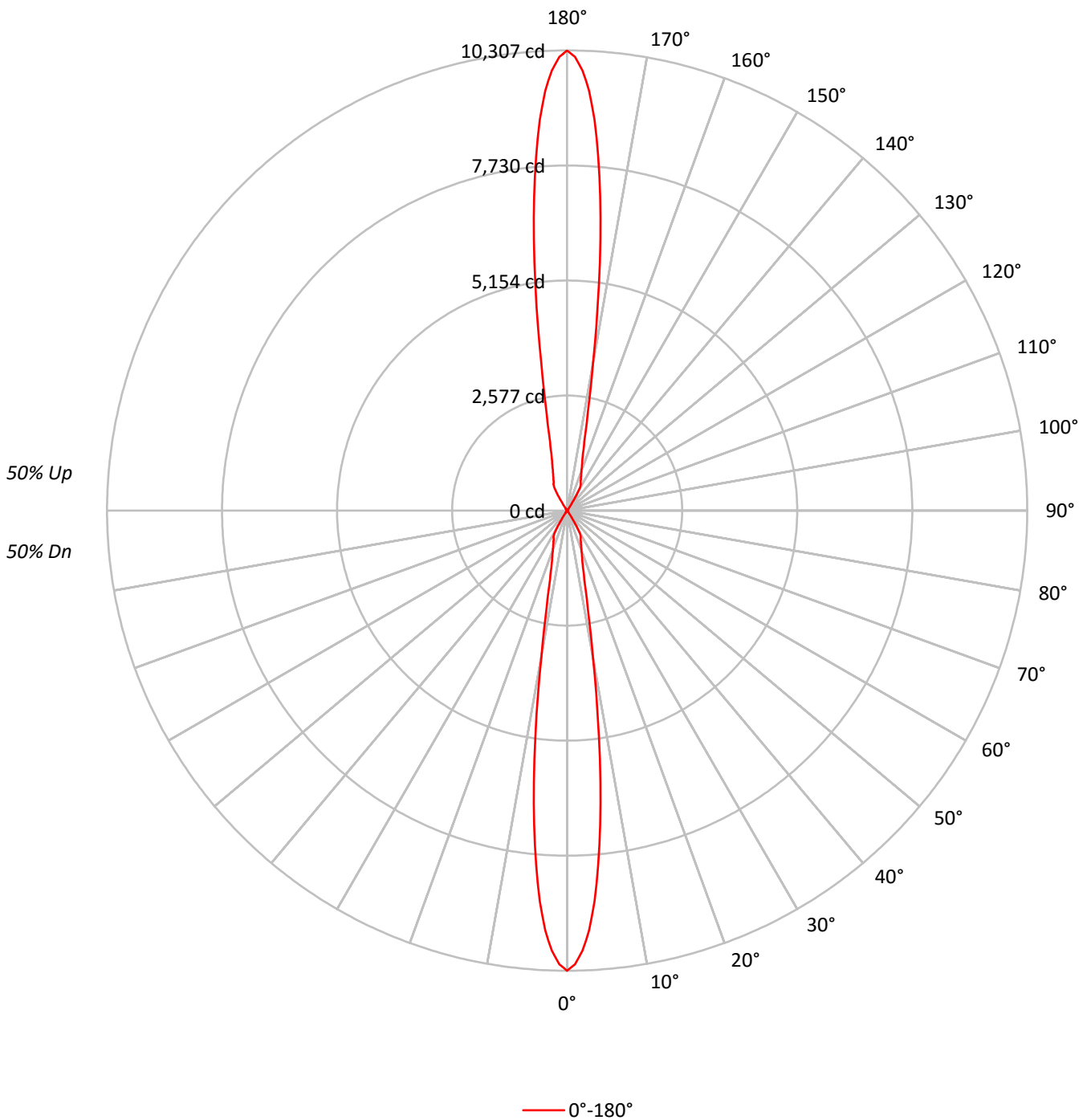
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1271348
5°	987947
10°	418655
15°	178993
20°	122218
25°	97405
30°	72823
35°	9652
40°	5153
45°	3750
50°	4030
55°	4387
60°	4884
65°	5604
70°	6528
75°	7768
80°	9092
85°	9057



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	602.1	19.6
10°-20°	431.5	14.0
20°-30°	332.9	10.8
30°-40°	92.3	3.0
40°-50°	17.9	0.6
50°-60°	18.3	0.6
60°-70°	19.0	0.6
70°-80°	17.0	0.6
80°-90°	7.1	0.2
90°-100°	7.1	0.2
100°-110°	17.0	0.6
110°-120°	19.0	0.6
120°-130°	18.3	0.6
130°-140°	17.9	0.6
140°-150°	92.3	3.0
150°-160°	332.9	10.8
160°-170°	431.5	14.0
170°-180°	602.1	19.6
0°-30°	1366.5	44.4
0°-40°	1458.8	47.4
0°-60°	1495.0	48.6
0°-90°	1538.1	50.0
90°-120°	43.1	1.4
90°-150°	171.5	5.6
90°-180°	1538.0	50.0
0°-180°	3076.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10307	
5°	7979	602
15°	1402	431
25°	716	333
35°	64	92
45°	22	18
55°	20	18
65°	19	19
75°	16	17
85°	6	7
90°	0	1
95°	6	7
105°	16	17
115°	19	19
125°	20	18
135°	22	18
145°	64	92
155°	716	333
165°	1402	431
175°	7979	602
180°	10307	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	10307.2
1°	10162.8
2°	9863.5
3°	9408.7
4°	8776.3
5°	7979.1
6°	7078.8
7°	6128.4
8°	5099.5
9°	4166.6
10°	3342.6
11°	2693.3
12°	2200.6
13°	1844.2
14°	1592.1
15°	1401.7
16°	1260.2
17°	1154.2
18°	1070.9
19°	998.1
20°	931.1
22.5°	806.5
25°	715.7
26°	692.4
27°	672.6
28°	648.7
29°	596.9
30°	511.3
32.5°	245.7
35°	64.1
37.5°	41.3
40°	32.0
42.5°	23.9
45°	21.5
47.5°	21.0
50°	21.0
52.5°	20.4
55°	20.4
57.5°	20.4
60°	19.8
62.5°	19.8
65°	19.2
67.5°	18.6
70°	18.1
72.5°	17.5



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CANDELA DISTRIBUTION (continued):

	0°
75°	16.3
77.5°	15.1
80°	12.8
82.5°	10.5
85°	6.4
87.5°	2.9
90°	0.0
92.5°	2.9
95°	6.4
97.5°	10.5
100°	12.8
102.5°	15.1
105°	16.3
107.5°	17.5
110°	18.1
112.5°	18.6
115°	19.2
117.5°	19.8
120°	19.8
122.5°	20.4
125°	20.4
127.5°	20.4
130°	21.0
132.5°	21.0
135°	21.5
137.5°	23.9
140°	32.0
142.5°	41.3
145°	64.1
147.5°	245.7
150°	511.3
151°	596.9
152°	648.7
153°	672.6
154°	692.4
155°	715.7
157.5°	806.5
160°	931.1
161°	998.1
162°	1070.9
163°	1154.2
164°	1260.2
165°	1401.7
166°	1592.1
167°	1844.2



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CANDELA DISTRIBUTION (continued):

	0°
168°	2200.6
169°	2693.3
170°	3342.6
171°	4166.6
172°	5099.5
173°	6128.4
174°	7078.8
175°	7979.1
176°	8776.3
177°	9408.7
178°	9863.5
179°	10162.8
180°	10307.2

(END OF REPORT)