

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: P221754

Luminaire Tested: **9004-W2-[RW, RI]-LED2797-M-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221754
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29488)
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]-LED2797-M-WT-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, MEDIUM FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 2700K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1548.0 lumens
Efficiency: N/A
Efficacy: 78.6 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

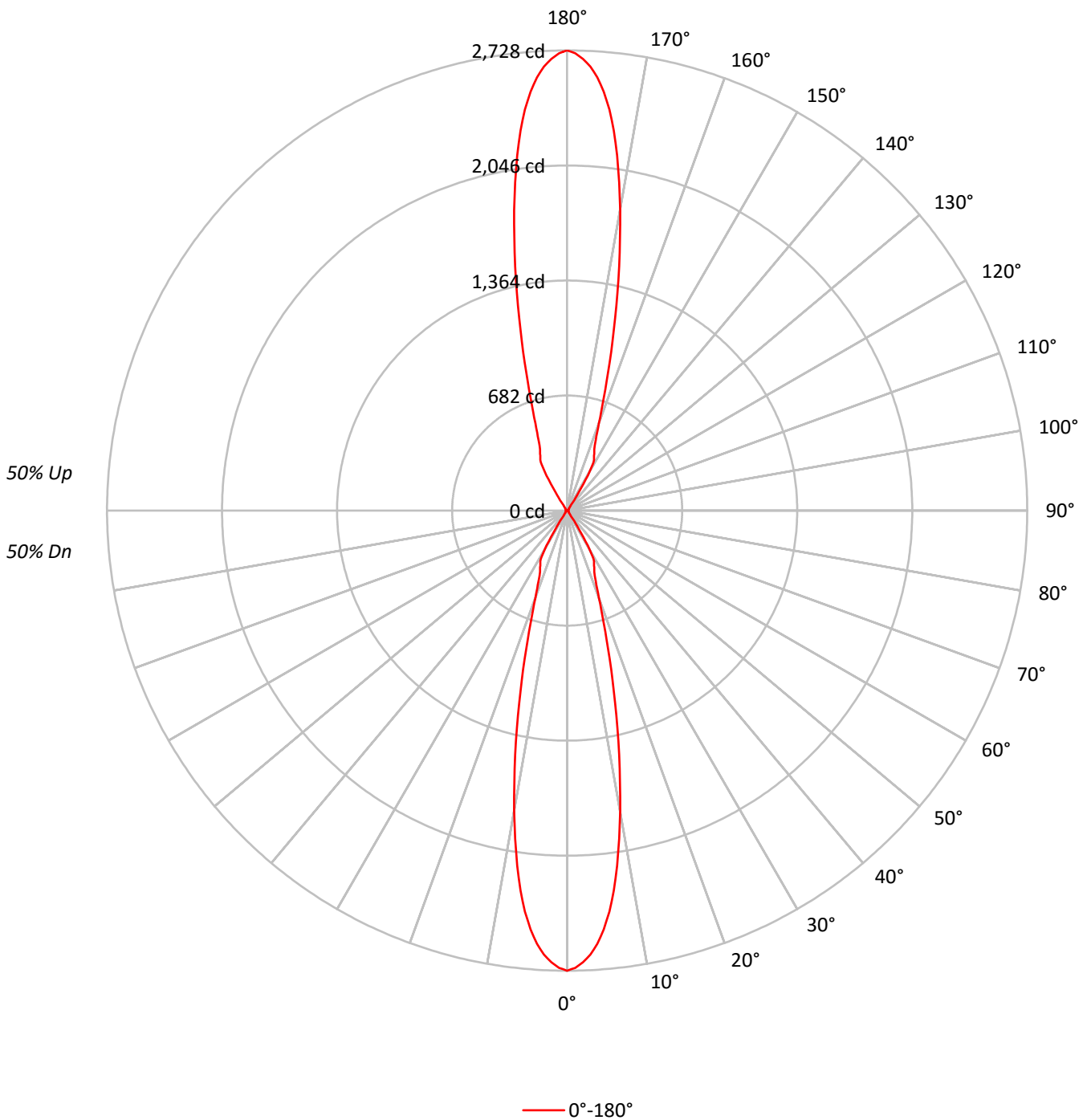
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	97	94	92	93	90	88	85	77	75	74	65	64	63	54	53	52	47
2	94	89	84	80	87	83	79	75	71	69	66	61	59	58	51	50	49	45
3	88	81	76	72	82	76	72	68	67	63	61	57	55	53	49	48	47	43
4	83	75	69	65	78	71	66	62	62	59	56	54	52	50	47	46	44	41
5	79	70	64	59	73	66	61	57	59	55	52	52	49	47	45	44	42	39
6	75	65	59	55	70	62	57	53	55	51	48	49	46	44	44	42	40	38
7	71	61	55	51	66	58	53	49	53	49	46	47	44	42	42	40	39	36
8	67	58	52	48	63	55	50	46	50	46	43	45	42	40	41	39	37	35
9	64	55	49	45	60	52	47	44	48	44	41	43	40	38	39	37	36	34
10	61	52	46	43	58	50	45	41	46	42	39	42	39	37	38	36	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	336512
5°	308589
10°	226449
15°	132626
20°	72365
25°	51553
30°	38142
35°	5496
40°	3011
45°	2146
50°	2188
55°	2258
60°	2516
65°	2802
70°	3282
75°	4051
80°	4759
85°	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.7	13.9
10°-20°	288.8	18.7
20°-30°	178.3	11.5
30°-40°	49.7	3.2
40°-50°	10.1	0.6
50°-60°	9.5	0.6
60°-70°	9.6	0.6
70°-80°	8.7	0.6
80°-90°	3.6	0.2
90°-100°	3.6	0.2
100°-110°	8.7	0.6
110°-120°	9.6	0.6
120°-130°	9.5	0.6
130°-140°	10.1	0.6
140°-150°	49.7	3.2
150°-160°	178.3	11.5
160°-170°	288.8	18.7
170°-180°	215.7	13.9
0°-30°	682.8	44.1
0°-40°	732.5	47.3
0°-60°	752.1	48.6
0°-90°	774.0	50.0
90°-120°	21.9	1.4
90°-150°	91.2	5.9
90°-180°	774.0	50.0
0°-180°	1548.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2728	
5°	2492	216
15°	1039	289
25°	379	178
35°	36	50
45°	12	10
55°	10	10
65°	10	10
75°	8	9
85°	3	3
90°	0	0
95°	3	3
105°	8	9
115°	10	10
125°	10	10
135°	12	10
145°	36	50
155°	379	178
165°	1039	289
175°	2492	216
180°	2728	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2728.2
1°	2711.2
2°	2679.9
3°	2635.5
4°	2574.4
5°	2492.3
6°	2390.5
7°	2269.5
8°	2125.1
9°	1969.9
10°	1808.0
11°	1643.1
12°	1480.3
13°	1321.5
14°	1174.2
15°	1038.6
16°	913.8
17°	801.8
18°	703.6
19°	619.7
20°	551.3
21°	494.9
22°	452.5
23°	420.3
24°	396.4
25°	378.8
26°	364.5
27°	351.9
28°	340.0
29°	313.1
30°	267.8
32.5°	129.8
35°	36.5
37.5°	25.1
40°	18.7
42.5°	13.2
45°	12.3
47.5°	11.7
50°	11.4
52.5°	10.8
55°	10.5
57.5°	10.5
60°	10.2
62.5°	10.2
65°	9.6



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	9.4
70°	9.1
72.5°	8.8
75°	8.5
77.5°	7.6
80°	6.7
82.5°	5.3
85°	3.2
87.5°	1.5
90°	0.0
92.5°	1.5
95°	3.2
97.5°	5.3
100°	6.7
102.5°	7.6
105°	8.5
107.5°	8.8
110°	9.1
112.5°	9.4
115°	9.6
117.5°	10.2
120°	10.2
122.5°	10.5
125°	10.5
127.5°	10.8
130°	11.4
132.5°	11.7
135°	12.3
137.5°	13.2
140°	18.7
142.5°	25.1
145°	36.5
147.5°	129.8
150°	267.8
151°	313.1
152°	340.0
153°	351.9
154°	364.5
155°	378.8
156°	396.4
157°	420.3
158°	452.5
159°	494.9
160°	551.3
161°	619.7



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CANDELA DISTRIBUTION (continued):

	0°
162°	703.6
163°	801.8
164°	913.8
165°	1038.6
166°	1174.2
167°	1321.5
168°	1480.3
169°	1643.1
170°	1808.0
171°	1969.9
172°	2125.1
173°	2269.5
174°	2390.5
175°	2492.3
176°	2574.4
177°	2635.5
178°	2679.9
179°	2711.2
180°	2728.2

(END OF REPORT)