

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: P221899

Luminaire Tested: **9004-W2-[RW, RI]-LED4097-M-WT-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221899
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]-LED4097-M-WT-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, MEDIUM FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 4000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3241.0 lumens
Efficiency: N/A
Efficacy: 80.6 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

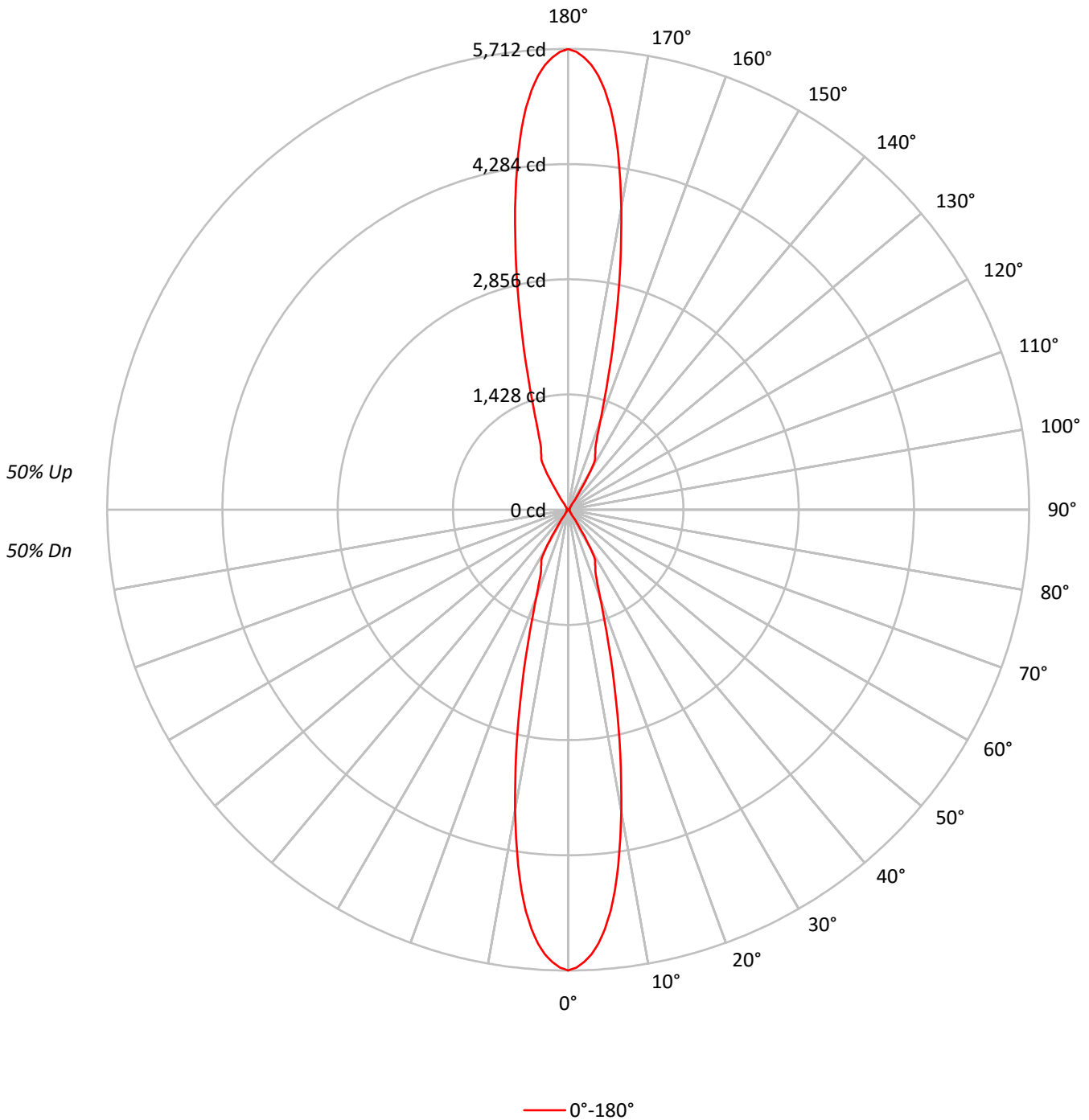
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	704550
5°	646088
10°	474103
15°	277677
20°	151515
25°	107952
30°	79845
35°	11519
40°	6312
45°	4483
50°	4586
55°	4731
60°	5279
65°	5896
70°	6852
75°	8435
80°	10016
85°	9482



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	451.6	13.9
10°-20°	604.7	18.7
20°-30°	373.3	11.5
30°-40°	104.0	3.2
40°-50°	21.0	0.6
50°-60°	20.0	0.6
60°-70°	20.2	0.6
70°-80°	18.1	0.6
80°-90°	7.6	0.2
90°-100°	7.6	0.2
100°-110°	18.1	0.6
110°-120°	20.2	0.6
120°-130°	20.0	0.6
130°-140°	21.0	0.6
140°-150°	104.0	3.2
150°-160°	373.3	11.5
160°-170°	604.7	18.7
170°-180°	451.6	13.9
0°-30°	1429.6	44.1
0°-40°	1533.6	47.3
0°-60°	1574.6	48.6
0°-90°	1620.5	50.0
90°-120°	45.9	1.4
90°-150°	190.9	5.9
90°-180°	1621.0	50.0
0°-180°	3241.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5712	
5°	5218	452
15°	2174	605
25°	793	373
35°	76	104
45°	26	21
55°	22	20
65°	20	20
75°	18	18
85°	7	7
90°	0	1
95°	7	7
105°	18	18
115°	20	20
125°	22	20
135°	26	21
145°	76	104
155°	793	373
165°	2174	605
175°	5218	452
180°	5712	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5712.0
1°	5676.5
2°	5611.0
3°	5518.0
4°	5390.1
5°	5218.1
6°	5005.1
7°	4751.7
8°	4449.4
9°	4124.4
10°	3785.3
11°	3440.2
12°	3099.3
13°	2766.9
14°	2458.5
15°	2174.5
16°	1913.2
17°	1678.8
18°	1473.1
19°	1297.5
20°	1154.3
21°	1036.1
22°	947.4
23°	880.1
24°	829.9
25°	793.2
26°	763.2
27°	736.9
28°	711.8
29°	655.5
30°	560.6
32.5°	271.7
35°	76.5
37.5°	52.6
40°	39.2
42.5°	27.5
45°	25.7
47.5°	24.5
50°	23.9
52.5°	22.6
55°	22.0
57.5°	22.0
60°	21.4
62.5°	21.4
65°	20.2

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CANDELA DISTRIBUTION (continued):

	0°
67.5°	19.6
70°	19.0
72.5°	18.4
75°	17.7
77.5°	15.9
80°	14.1
82.5°	11.0
85°	6.7
87.5°	3.1
90°	0.0
92.5°	3.1
95°	6.7
97.5°	11.0
100°	14.1
102.5°	15.9
105°	17.7
107.5°	18.4
110°	19.0
112.5°	19.6
115°	20.2
117.5°	21.4
120°	21.4
122.5°	22.0
125°	22.0
127.5°	22.6
130°	23.9
132.5°	24.5
135°	25.7
137.5°	27.5
140°	39.2
142.5°	52.6
145°	76.5
147.5°	271.7
150°	560.6
151°	655.5
152°	711.8
153°	736.9
154°	763.2
155°	793.2
156°	829.9
157°	880.1
158°	947.4
159°	1036.1
160°	1154.3
161°	1297.5



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CANDELA DISTRIBUTION (continued):

	0°
162°	1473.1
163°	1678.8
164°	1913.2
165°	2174.5
166°	2458.5
167°	2766.9
168°	3099.3
169°	3440.2
170°	3785.3
171°	4124.4
172°	4449.4
173°	4751.7
174°	5005.1
175°	5218.1
176°	5390.1
177°	5518.0
178°	5611.0
179°	5676.5
180°	5712.0

(END OF REPORT)