

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: P221911

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221911
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29490)
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-W-WT-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, WIDE FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 4000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3179.7 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.84 / 0.83
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

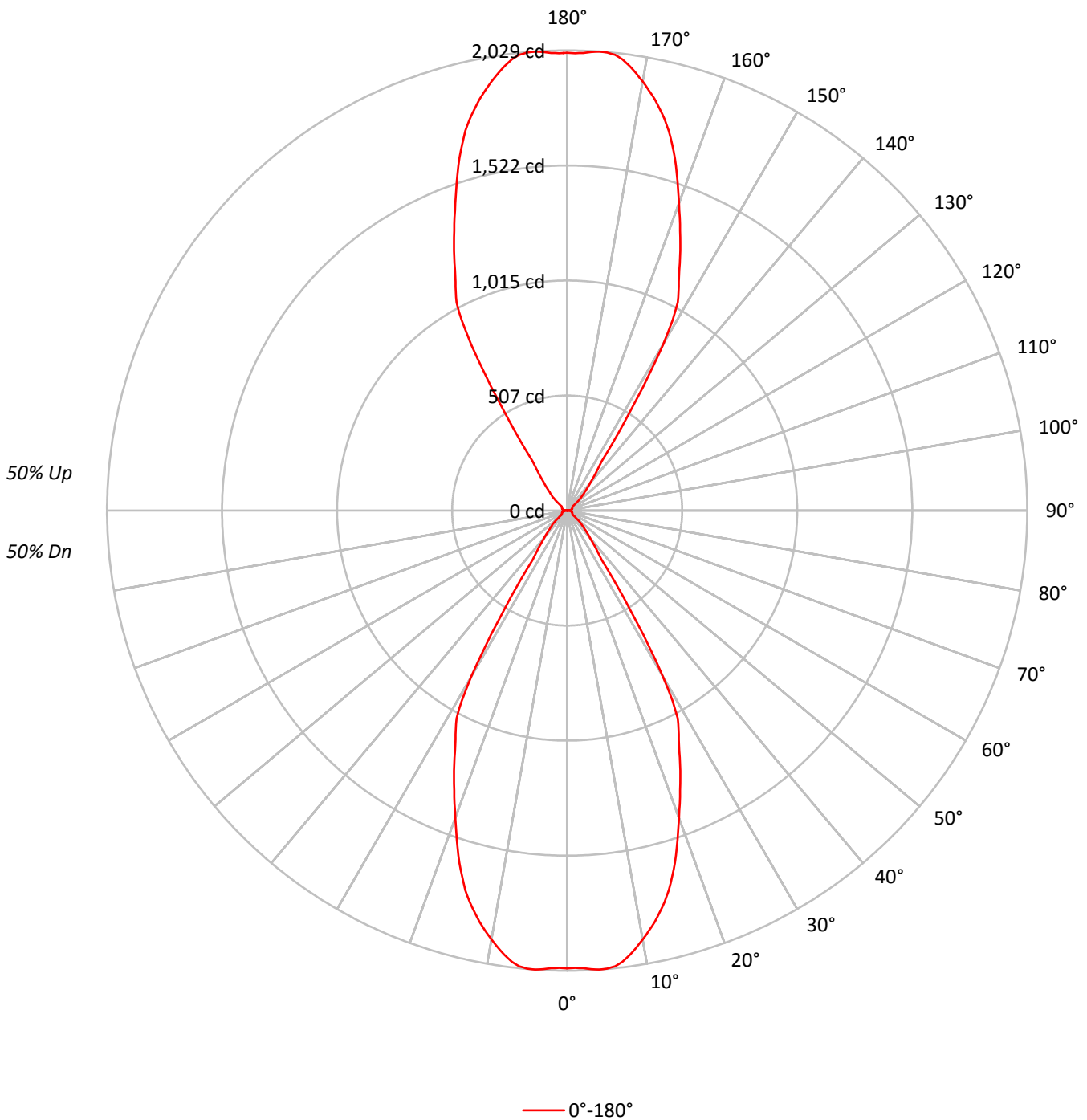
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	96	93	90	92	89	87	84	76	74	73		64	63	62		53	52	51	46
2	93	87	82	78	86	81	77	73	70	67	64		59	57	56		50	48	47	43
3	87	79	73	69	80	74	69	65	64	61	58		55	53	51		47	45	44	40
4	81	72	66	61	75	68	62	58	59	55	52		51	49	46		44	42	41	37
5	76	67	60	55	71	63	57	53	55	51	48		48	45	43		42	40	38	35
6	71	61	55	50	66	58	52	48	51	47	44		45	42	39		39	37	35	33
7	67	57	50	46	63	54	48	44	48	43	40		42	39	37		37	35	33	31
8	63	53	46	42	59	50	44	40	45	40	37		40	37	34		35	33	31	29
9	60	49	43	39	56	47	41	37	42	38	35		38	34	32		34	31	29	28
10	56	46	40	36	53	44	38	35	40	35	32		36	32	30		32	30	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	249047
5°	251051
10°	240540
15°	221324
20°	189187
25°	159261
30°	120380
35°	39993
40°	25424
45°	17287
50°	10094
55°	6064
60°	6636
65°	7326
70°	8403
75°	10199
80°	12146
85°	12171



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.1	6.0
10°-20°	478.0	15.0
20°-30°	535.4	16.8
30°-40°	223.9	7.0
40°-50°	77.8	2.4
50°-60°	28.2	0.9
60°-70°	24.9	0.8
70°-80°	22.1	0.7
80°-90°	9.3	0.3
90°-100°	9.3	0.3
100°-110°	22.1	0.7
110°-120°	24.9	0.8
120°-130°	28.2	0.9
130°-140°	77.8	2.4
140°-150°	223.9	7.0
150°-160°	535.4	16.8
160°-170°	478.0	15.0
170°-180°	190.1	6.0
0°-30°	1203.6	37.9
0°-40°	1427.5	44.9
0°-60°	1533.5	48.2
0°-90°	1589.9	50.0
90°-120°	56.4	1.8
90°-150°	386.3	12.1
90°-180°	1590.0	50.0
0°-180°	3179.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2019	
5°	2028	190
15°	1733	478
25°	1170	535
35°	266	224
45°	99	78
55°	28	28
65°	25	25
75°	21	22
85°	9	9
90°	0	1
95°	9	9
105°	21	22
115°	25	25
125°	28	28
135°	99	78
145°	266	224
155°	1170	535
165°	1733	478
175°	2028	190
180°	2019	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2019.1
1°	2017.2
2°	2019.1
3°	2025.2
4°	2028.8
5°	2027.6
6°	2020.3
7°	2004.4
8°	1979.3
9°	1951.1
10°	1920.5
11°	1888.1
12°	1855.0
13°	1817.7
14°	1777.9
15°	1733.2
16°	1680.0
17°	1624.3
18°	1564.3
19°	1501.9
20°	1441.3
21°	1385.0
22°	1330.5
23°	1276.7
24°	1224.0
25°	1170.2
26°	1123.1
27°	1081.4
28°	1038.6
29°	960.3
30°	845.2
32.5°	506.8
35°	265.6
37.5°	203.2
40°	157.9
42.5°	123.0
45°	99.1
47.5°	79.6
50°	52.6
52.5°	31.2
55°	28.2
57.5°	27.5
60°	26.9
62.5°	26.3
65°	25.1



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	23.9
70°	23.3
72.5°	22.6
75°	21.4
77.5°	19.6
80°	17.1
82.5°	13.5
85°	8.6
87.5°	3.7
90°	0.0
92.5°	3.7
95°	8.6
97.5°	13.5
100°	17.1
102.5°	19.6
105°	21.4
107.5°	22.6
110°	23.3
112.5°	23.9
115°	25.1
117.5°	26.3
120°	26.9
122.5°	27.5
125°	28.2
127.5°	31.2
130°	52.6
132.5°	79.6
135°	99.1
137.5°	123.0
140°	157.9
142.5°	203.2
145°	265.6
147.5°	506.8
150°	845.2
151°	960.3
152°	1038.6
153°	1081.4
154°	1123.1
155°	1170.2
156°	1224.0
157°	1276.7
158°	1330.5
159°	1385.0
160°	1441.3
161°	1501.9



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CANDELA DISTRIBUTION (continued):

	0°
162°	1564.3
163°	1624.3
164°	1680.0
165°	1733.2
166°	1777.9
167°	1817.7
168°	1855.0
169°	1888.1
170°	1920.5
171°	1951.1
172°	1979.3
173°	2004.4
174°	2020.3
175°	2027.6
176°	2028.8
177°	2025.2
178°	2019.1
179°	2017.2
180°	2019.1

(END OF REPORT)