

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: P221277

Luminaire Tested: **9002-W2-[RW, RI]-LED4097-S-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221277
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29413)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9002-W2-[RW, RI]-LED4097-S-BK-L1-UNV
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, RECESSED LENS, SPOT OPTIC, BLACK HOUSING.
Light Source: (1) 4000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

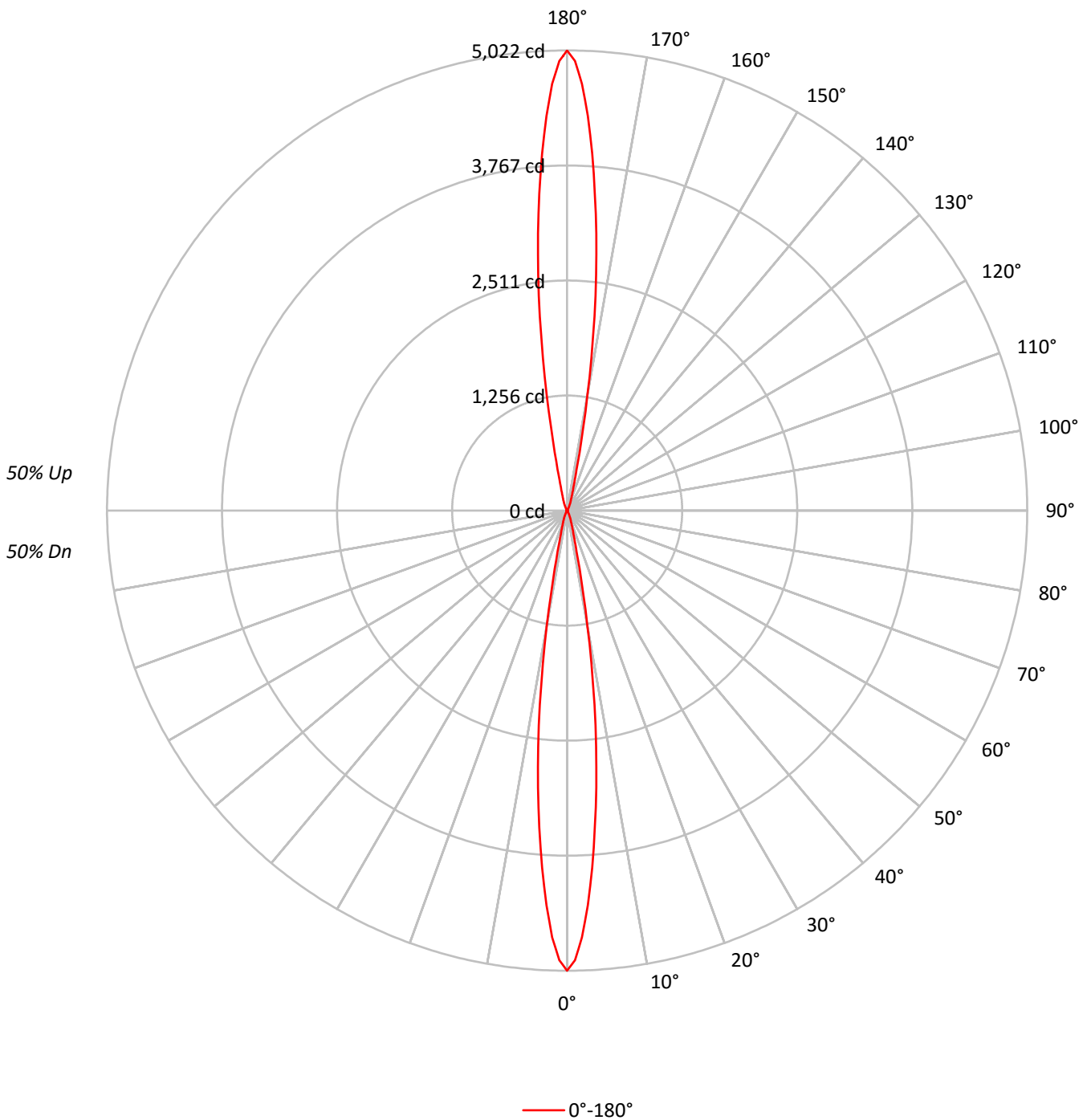
Lumens per Lamp: N/A
Luminaire Lumens: 787.8 lumens
Efficiency: N/A
Efficacy: 39.4 lumens/watt
Spacing Criteria (0/90/45): 0.25 / 0.25 / 0.25
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 20
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	96	93	94	91	89	87	78	77	76	66	65	65	55	55	54	49
2	96	91	87	84	89	85	82	79	74	72	70	63	62	61	54	53	53	48
3	91	85	80	76	85	80	76	73	70	67	65	61	59	58	53	52	51	48
4	87	80	75	71	81	75	71	68	67	64	62	59	57	56	52	51	50	47
5	83	75	70	66	78	71	67	64	64	61	59	57	55	54	51	50	49	46
6	79	72	66	63	75	68	64	60	62	59	56	56	54	52	50	49	48	46
7	76	68	63	59	72	65	61	58	60	56	54	54	52	50	49	48	47	45
8	74	66	60	57	70	63	58	55	58	55	52	53	51	49	48	47	46	44
9	71	63	58	55	68	61	56	53	56	53	51	52	50	48	48	46	45	44
10	69	61	56	53	66	59	55	52	55	52	49	51	49	47	47	46	45	43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2477604
5°	1720498
10°	638964
15°	136992
20°	61220
25°	29941
30°	9970
35°	4517
40°	2705
45°	1744
50°	1305
55°	0
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.1	33.0
10°-20°	100.0	12.7
20°-30°	26.2	3.3
30°-40°	5.3	0.7
40°-50°	1.8	0.2
50°-60°	0.4	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.5	0.1
130°-140°	1.8	0.2
140°-150°	5.3	0.7
150°-160°	26.2	3.3
160°-170°	100.0	12.7
170°-180°	260.1	33.0
0°-30°	386.4	49.0
0°-40°	391.7	49.7
0°-60°	393.9	50.0
0°-90°	393.9	50.0
90°-120°	0.0	0.0
90°-150°	7.7	1.0
90°-180°	394.0	50.0
0°-180°	787.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5022	
5°	3474	260
15°	268	100
25°	55	26
35°	8	5
45°	2	2
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	0	0
125°	0	1
135°	2	2
145°	8	5
155°	55	26
165°	268	100
175°	3474	260
180°	5022	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5021.7
1°	4906.8
2°	4660.2
3°	4312.8
4°	3907.9
5°	3473.9
6°	3039.9
7°	2593.3
8°	2136.8
9°	1689.5
10°	1275.4
11°	921.4
12°	649.0
13°	461.5
14°	343.2
15°	268.2
17.5°	164.9
20°	116.6
22.5°	85.0
25°	55.0
27.5°	31.7
30°	17.5
32.5°	10.8
35°	7.5
37.5°	5.8
40°	4.2
42.5°	2.5
45°	2.5
47.5°	1.7
50°	1.7
52.5°	0.8
55°	0.0
57.5°	0.0
60°	0.0
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0



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CANDELA DISTRIBUTION (continued):

	0°
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.0
105°	0.0
107.5°	0.0
110°	0.0
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.0
125°	0.0
127.5°	0.8
130°	1.7
132.5°	1.7
135°	2.5
137.5°	2.5
140°	4.2
142.5°	5.8
145°	7.5
147.5°	10.8
150°	17.5
152.5°	31.7
155°	55.0
157.5°	85.0
160°	116.6
162.5°	164.9
165°	268.2
166°	343.2
167°	461.5
168°	649.0
169°	921.4
170°	1275.4
171°	1689.5
172°	2136.8
173°	2593.3
174°	3039.9
175°	3473.9
176°	3907.9
177°	4312.8
178°	4660.2
179°	4906.8



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CANDELA DISTRIBUTION (continued):

180° $\overbrace{\quad\quad\quad}^{0^\circ}$
5021.7

(END OF REPORT)