

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: P221273

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221273
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29415)
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-F-BK-L1-UNV
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, RECESSED LENS, FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 4000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

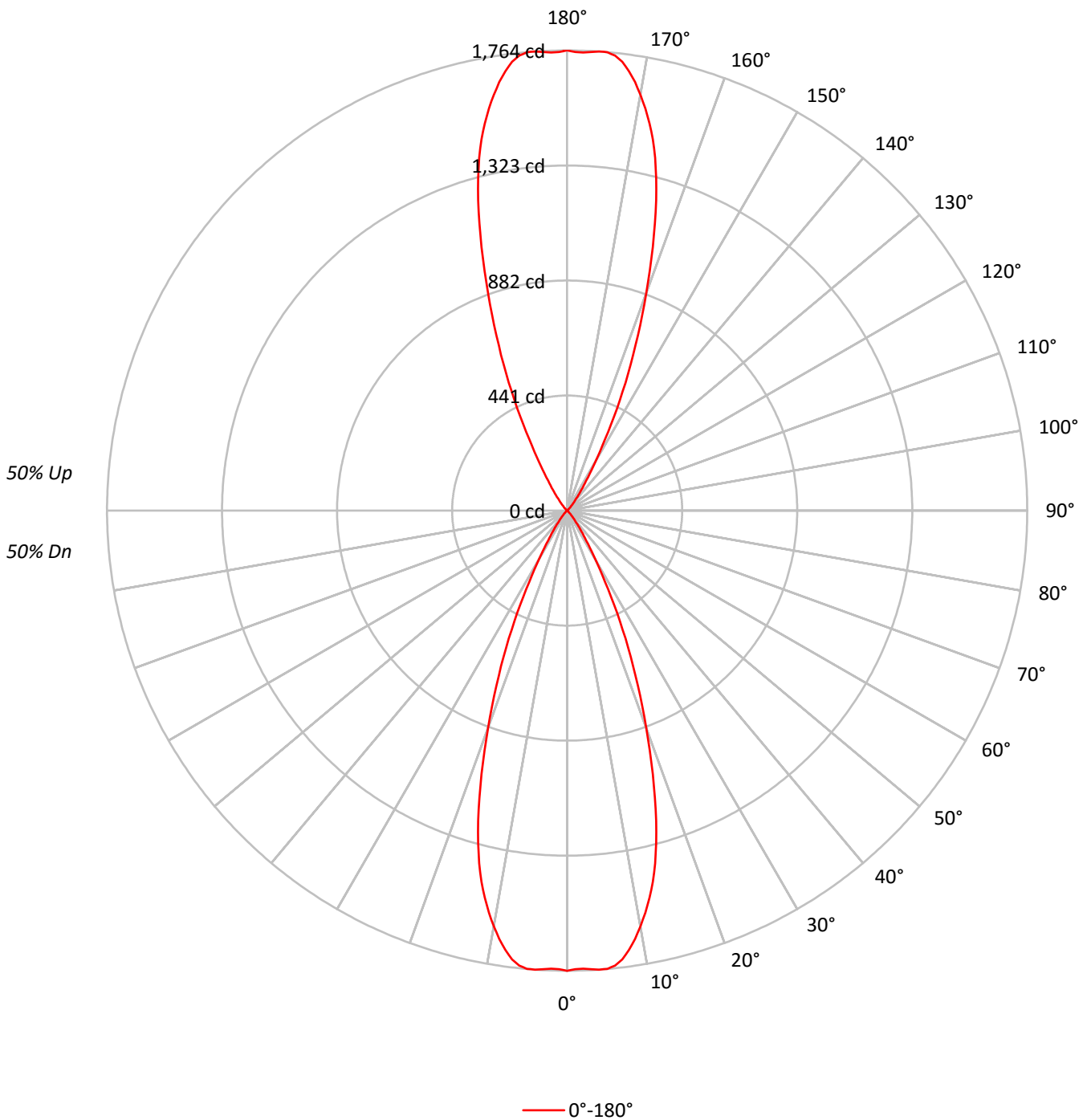
Lumens per Lamp: N/A
Luminaire Lumens: 1641.8 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Spacing Criteria (0/90/45): 0.66 / 0.66 / 0.63
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 20
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	101	97	95	92	93	90	88	86	77	76	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	76	72	82	77	72	68	67	64	61		58	56	54		50	48	47	43
4	84	76	70	65	78	71	66	62	63	59	56		55	52	50		47	46	45	41
5	79	70	64	60	74	66	61	57	59	55	52		52	49	47		45	44	42	40
6	75	65	59	55	70	62	57	53	55	51	49		49	47	44		44	42	40	38
7	71	61	55	51	66	58	53	49	52	48	46		47	44	42		42	40	38	36
8	67	58	52	47	63	55	50	46	50	46	43		45	42	40		40	38	37	35
9	64	54	48	45	60	52	47	43	47	43	40		43	40	38		39	37	35	33
10	61	51	46	42	57	49	44	41	45	41	38		41	38	36		37	35	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	870519
5°	873448
10°	810904
15°	674031
20°	464506
25°	273934
30°	122430
35°	52160
40°	20932
45°	7536
50°	2533
55°	688
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.8	10.0
10°-20°	355.3	21.6
20°-30°	230.2	14.0
30°-40°	60.5	3.7
40°-50°	10.1	0.6
50°-60°	1.1	0.1
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°	1.1	0.1
130°-140°	10.1	0.6
140°-150°	60.5	3.7
150°-160°	230.2	14.0
160°-170°	355.3	21.6
170°-180°	163.8	10.0
0°-30°	749.3	45.6
0°-40°	809.7	49.3
0°-60°	820.9	50.0
0°-90°	820.9	50.0
90°-120°	0.0	0.0
90°-150°	71.6	4.4
90°-180°	821.0	50.0
0°-180°	1641.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1764	
5°	1764	164
15°	1320	355
25°	503	230
35°	87	60
45°	11	10
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	0	0
125°	1	1
135°	11	10
145°	87	60
155°	503	230
165°	1320	355
175°	1764	164
180°	1764	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1764.4
1°	1758.6
2°	1756.9
3°	1760.3
4°	1764.4
5°	1763.6
6°	1753.6
7°	1733.6
8°	1701.1
9°	1662.8
10°	1618.6
11°	1570.3
12°	1517.8
13°	1460.4
14°	1393.7
15°	1319.6
16°	1237.9
17°	1151.3
18°	1062.2
19°	971.4
20°	884.7
22.5°	683.9
25°	503.2
26°	436.5
27°	369.9
28°	309.9
29°	258.3
30°	214.9
32.5°	135.0
35°	86.6
37.5°	53.3
40°	32.5
42.5°	19.2
45°	10.8
47.5°	5.8
50°	3.3
52.5°	1.7
55°	0.8
57.5°	0.8
60°	0.0
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0



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CANDELA DISTRIBUTION (continued):

	0°
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
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°	0.8
125°	0.8
127.5°	1.7
130°	3.3
132.5°	5.8
135°	10.8
137.5°	19.2
140°	32.5
142.5°	53.3
145°	86.6
147.5°	135.0
150°	214.9
151°	258.3
152°	309.9
153°	369.9
154°	436.5
155°	503.2
157.5°	683.9
160°	884.7
161°	971.4
162°	1062.2
163°	1151.3
164°	1237.9
165°	1319.6
166°	1393.7
167°	1460.4



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CANDELA DISTRIBUTION (continued):

	0°
168°	1517.8
169°	1570.3
170°	1618.6
171°	1662.8
172°	1701.1
173°	1733.6
174°	1753.6
175°	1763.6
176°	1764.4
177°	1760.3
178°	1756.9
179°	1758.6
180°	1764.4

(END OF REPORT)