

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: P221297

Luminaire Tested: **9002-W2-[RW, RI]-LEDCW-F-BK-LC1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221297
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29546)
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]-LEDCW-F-BK-LC1-UNV
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, RECESSED LENS, FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) WARM DIMMING MODULE, SET TO 3500K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 802.0 lumens
Efficiency: N/A
Efficacy: 29.7 lumens/watt
Spacing Criteria (0/90/45): 0.66 / 0.66 / 0.58
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: General Diffuse

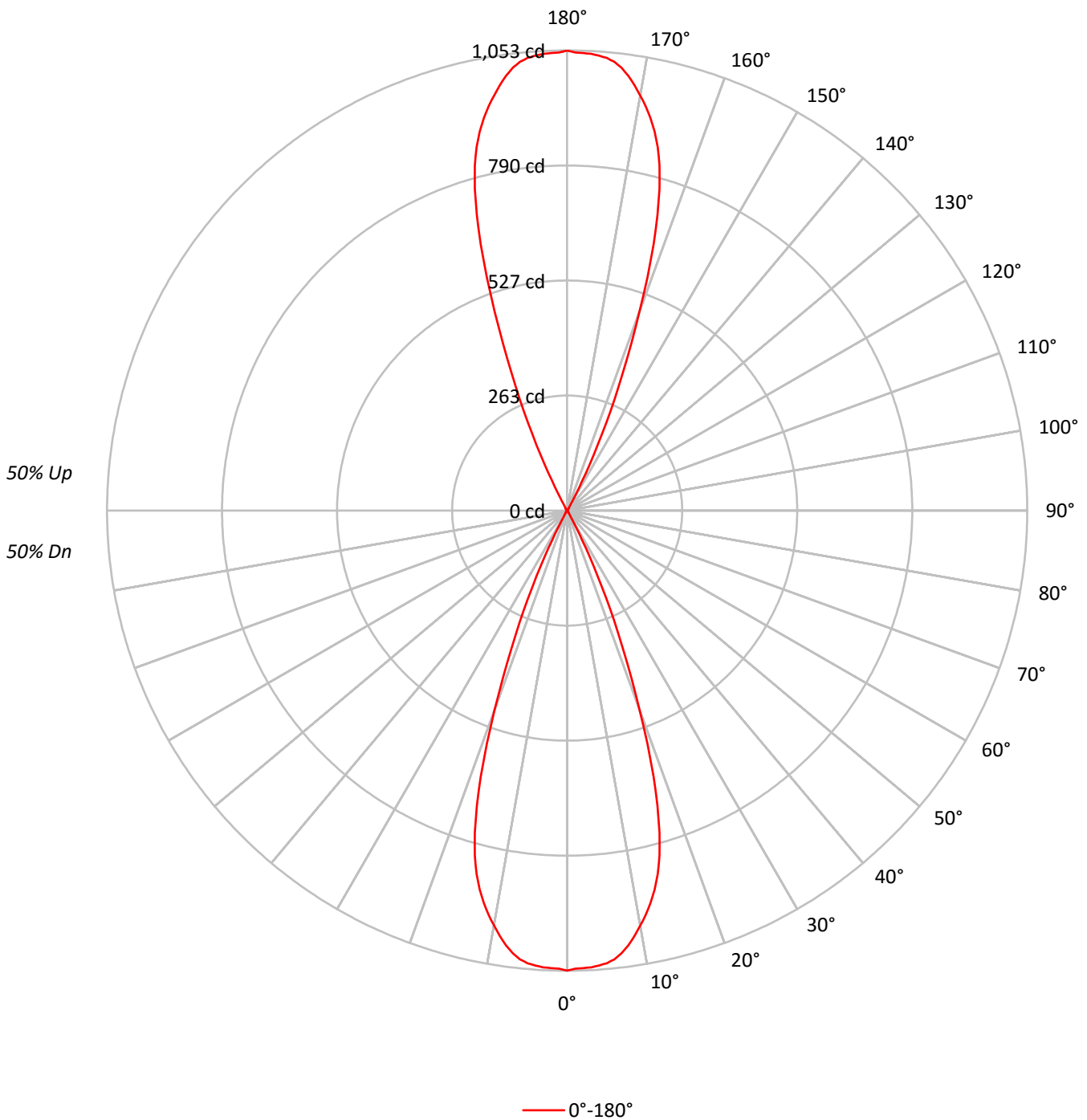
Input Watts (W): 27
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	95	92	93	91	88	86	77	76	75	65	64	64	54	54	53	48
2	95	90	85	82	88	84	80	77	72	70	68	62	60	59	52	51	51	46
3	89	83	78	73	83	78	73	70	68	65	62	59	57	55	50	49	48	45
4	84	77	71	67	79	72	67	64	64	60	58	56	54	52	49	47	46	43
5	80	72	66	61	75	68	63	59	60	57	54	53	51	49	47	45	44	41
6	76	67	61	57	71	64	59	55	57	53	51	51	49	47	45	44	42	40
7	72	63	57	53	68	60	55	51	54	51	48	49	46	44	44	42	41	39
8	69	60	54	50	65	57	52	48	52	48	45	47	44	42	42	41	39	37
9	66	57	51	47	62	54	49	46	50	46	43	45	42	41	41	39	38	36
10	63	54	48	45	60	52	47	44	47	44	41	44	41	39	40	38	37	35

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	519331
5°	514926
10°	483155
15°	417157
20°	254489
25°	90096
30°	6779
35°	3554
40°	2576
45°	2093
50°	1535
55°	860
60°	987
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.9	12.1
10°-20°	214.7	26.8
20°-30°	82.2	10.3
30°-40°	4.0	0.5
40°-50°	2.1	0.3
50°-60°	1.0	0.1
60°-70°	0.1	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°	0.1	0.0
120°-130°	1.0	0.1
130°-140°	2.1	0.3
140°-150°	4.0	0.5
150°-160°	82.2	10.3
160°-170°	214.7	26.8
170°-180°	96.9	12.1
0°-30°	393.8	49.1
0°-40°	397.8	49.6
0°-60°	400.9	50.0
0°-90°	401.0	50.0
90°-120°	0.1	0.0
90°-150°	7.2	0.9
90°-180°	401.0	50.0
0°-180°	802.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1053	
5°	1040	97
15°	817	215
25°	166	82
35°	6	4
45°	3	2
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°	3	2
145°	6	4
155°	166	82
165°	817	215
175°	1040	97
180°	1053	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1052.6
1°	1048.6
2°	1047.6
3°	1046.6
4°	1043.7
5°	1039.7
6°	1032.7
7°	1020.9
8°	1005.0
9°	985.2
10°	964.4
11°	942.6
12°	917.8
13°	890.0
14°	857.3
15°	816.7
16°	766.1
17°	706.7
18°	640.3
19°	563.9
20°	484.7
21°	411.3
22°	341.9
23°	278.5
24°	220.0
25°	165.5
26°	117.0
27°	76.3
28°	44.6
29°	23.8
30°	11.9
32.5°	6.9
35°	5.9
37.5°	5.0
40°	4.0
42.5°	3.0
45°	3.0
47.5°	2.0
50°	2.0
52.5°	1.0
55°	1.0
57.5°	1.0
60°	1.0
62.5°	0.0
65°	0.0



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CANDELA DISTRIBUTION (continued):

	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
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°	1.0
122.5°	1.0
125°	1.0
127.5°	1.0
130°	2.0
132.5°	2.0
135°	3.0
137.5°	3.0
140°	4.0
142.5°	5.0
145°	5.9
147.5°	6.9
150°	11.9
151°	23.8
152°	44.6
153°	76.3
154°	117.0
155°	165.5
156°	220.0
157°	278.5
158°	341.9
159°	411.3
160°	484.7
161°	563.9



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CANDELA DISTRIBUTION (continued):

	0°
162°	640.3
163°	706.7
164°	766.1
165°	816.7
166°	857.3
167°	890.0
168°	917.8
169°	942.6
170°	964.4
171°	985.2
172°	1005.0
173°	1020.9
174°	1032.7
175°	1039.7
176°	1043.7
177°	1046.6
178°	1047.6
179°	1048.6
180°	1052.6

(END OF REPORT)