

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: P221351

Luminaire Tested: **9002-W2-FL-LED4080-M-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221351
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29422)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9002-W2-FL-LED4080-M-BK-L1-UNV
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, FLUSH LENS, MEDIUM FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 4000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1969.9 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.36
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: General Diffuse

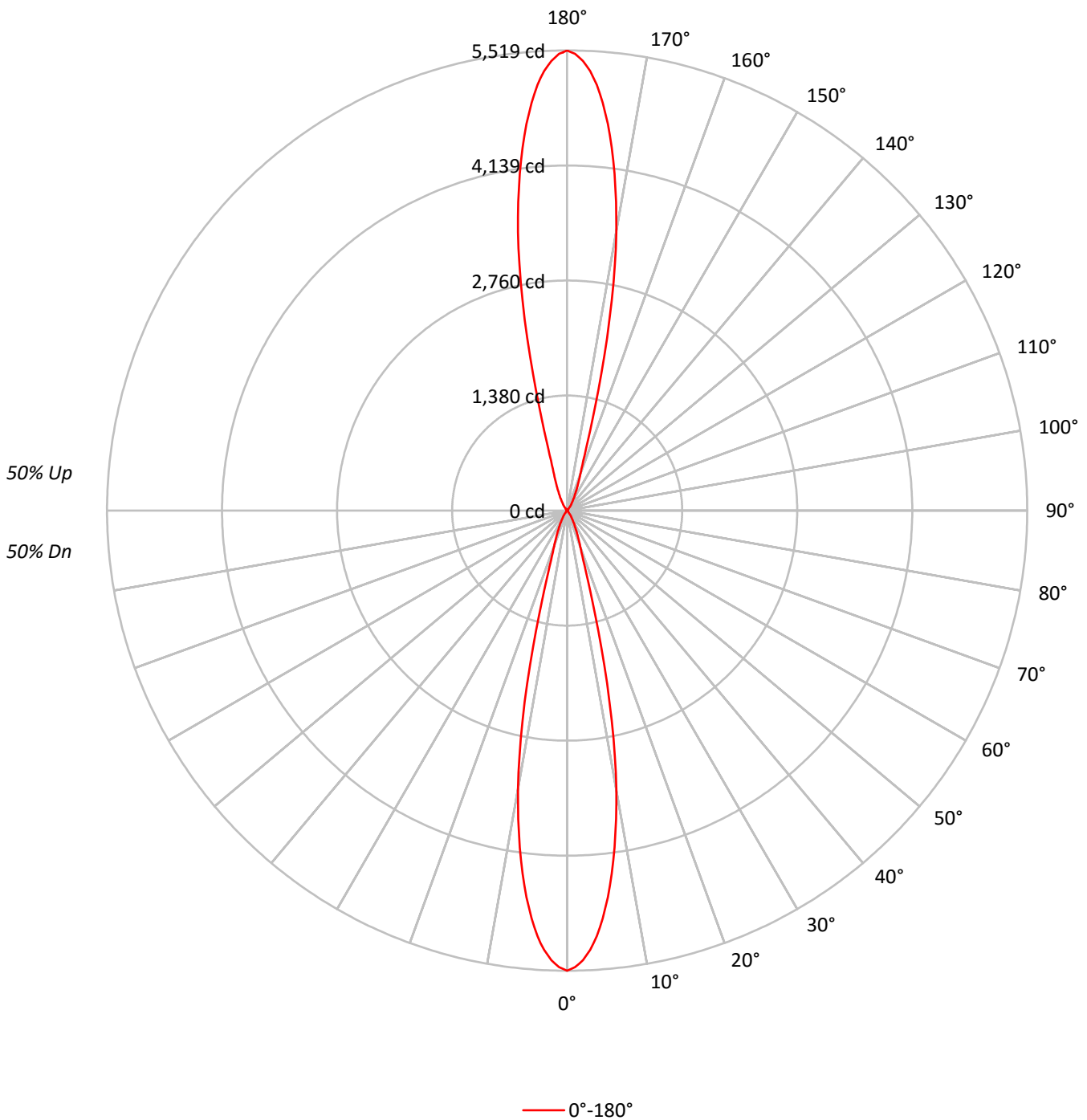
Input Watts (W): 20
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	93	93	91	89	87	78	76	75	66	65	64	54	54	54	48				
2	95	90	86	82	88	84	81	78	73	70	68	62	61	60	53	52	51	47				
3	90	83	78	74	84	78	74	71	69	66	63	60	58	56	51	50	49	46				
4	85	78	72	68	80	73	69	65	65	62	59	57	55	53	50	49	47	44				
5	81	73	67	63	76	69	64	61	62	58	56	55	52	51	48	47	46	43				
6	77	69	63	59	72	65	60	57	59	55	53	53	50	48	47	46	44	42				
7	74	65	59	56	69	62	57	54	56	53	50	51	48	47	46	44	43	41				
8	71	62	56	53	67	59	54	51	54	50	48	49	47	45	45	43	42	40				
9	68	59	54	50	64	57	52	49	52	48	46	48	45	43	44	42	41	39				
10	65	56	51	48	62	54	50	47	50	47	44	46	44	42	43	41	40	38				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2722962
5°	2431252
10°	1698860
15°	665041
20°	239945
25°	134463
30°	75771
35°	39752
40°	14169
45°	7675
50°	4605
55°	2581
60°	1974
65°	1167
70°	1443
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	419.4	21.3
10°-20°	392.8	19.9
20°-30°	117.8	6.0
30°-40°	41.5	2.1
40°-50°	9.3	0.5
50°-60°	2.9	0.1
60°-70°	1.1	0.1
70°-80°	0.1	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.1	0.0
110°-120°	1.1	0.1
120°-130°	2.9	0.1
130°-140°	9.3	0.5
140°-150°	41.5	2.1
150°-160°	117.8	6.0
160°-170°	392.8	19.9
170°-180°	419.4	21.3
0°-30°	930.0	47.2
0°-40°	971.5	49.3
0°-60°	983.7	49.9
0°-90°	985.0	50.0
90°-120°	1.2	0.1
90°-150°	55.0	2.8
90°-180°	985.0	50.0
0°-180°	1969.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5519	
5°	4909	419
15°	1302	393
25°	247	118
35°	66	42
45°	11	9
55°	3	3
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	1	1
125°	3	3
135°	11	9
145°	66	42
155°	247	118
165°	1302	393
175°	4909	419
180°	5519	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5519
1°	5478
2°	5397
3°	5278
4°	5117
5°	4909
6°	4662
7°	4387
8°	4080
9°	3746
10°	3391
11°	3002
12°	2574
13°	2124
14°	1684
15°	1302
16°	996
17°	775
18°	627
19°	527
20°	457
22.5°	335
25°	247
26°	218
27°	193
28°	171
29°	151
30°	133
32.5°	96
35°	66
37.5°	34
40°	22
42.5°	16
45°	11
47.5°	8
50°	6
52.5°	4
55°	3
57.5°	2
60°	2
62.5°	1
65°	1
67.5°	1
70°	1
72.5°	0



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CANDELA DISTRIBUTION (continued):

	0°
75°	0
77.5°	0
80°	0
82.5°	0
85°	0
87.5°	0
90°	0
92.5°	0
95°	0
97.5°	0
100°	0
102.5°	0
105°	0
107.5°	0
110°	1
112.5°	1
115°	1
117.5°	1
120°	2
122.5°	2
125°	3
127.5°	4
130°	6
132.5°	8
135°	11
137.5°	16
140°	22
142.5°	34
145°	66
147.5°	96
150°	133
151°	151
152°	171
153°	193
154°	218
155°	247
157.5°	335
160°	457
161°	527
162°	627
163°	775
164°	996
165°	1302
166°	1684
167°	2124



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CANDELA DISTRIBUTION (continued):

	0°
168°	2574
169°	3002
170°	3391
171°	3746
172°	4080
173°	4387
174°	4662
175°	4909
176°	5117
177°	5278
178°	5397
179°	5478
180°	5519

(END OF REPORT)