

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: P221369

Luminaire Tested: **9002-W2-FL-LED5080-S-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221369
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29421)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9002-W2-FL-LED5080-S-BK-L1-UNV
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, FLUSH LENS, SPOT OPTIC,
BLACK HOUSING.
Light Source: (1) 5000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

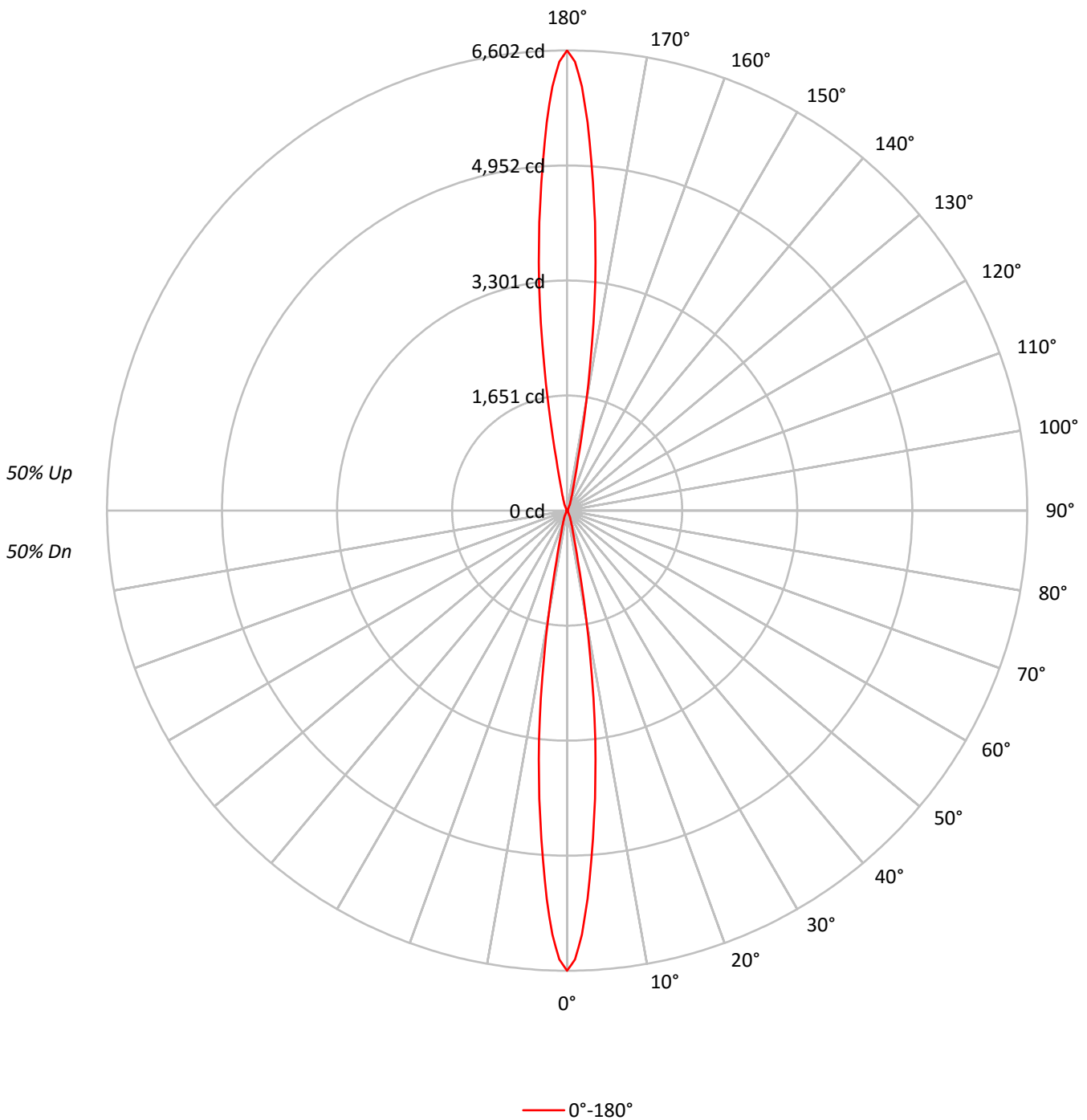
Lumens per Lamp: N/A
Luminaire Lumens: 1001.0 lumens
Efficiency: N/A
Efficacy: 50.0 lumens/watt
Spacing Criteria (0/90/45): 0.24 / 0.24 / 0.24
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: General Diffuse

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				50
1	101	98	96	93	94	91	89	87	78	77	75	66	65	64	55	55	54	49				49
2	96	91	87	83	89	85	82	79	74	71	70	63	62	61	54	53	52	48				48
3	91	85	80	76	85	80	76	72	70	67	65	61	59	58	53	52	51	47				47
4	87	80	74	70	81	75	71	67	67	64	61	59	57	55	52	51	50	47				47
5	83	75	70	66	78	71	67	63	64	61	58	57	55	53	51	49	49	46				46
6	79	71	66	62	75	68	63	60	61	58	56	55	53	52	50	49	48	45				45
7	76	68	63	59	72	65	61	57	59	56	54	54	52	50	49	48	47	45				45
8	73	65	60	57	69	63	58	55	57	54	52	53	50	49	48	47	46	44				44
9	71	63	58	54	67	60	56	53	56	53	50	52	49	48	47	46	45	44				44
10	69	61	56	53	65	58	54	51	54	51	49	50	48	47	47	45	44	43				43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3257144
5°	2197388
10°	782147
15°	162838
20°	78547
25°	38052
30°	13046
35°	6565
40°	4895
45°	3070
50°	2533
55°	1892
60°	2171
65°	1284
70°	1587
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.0	33.2
10°-20°	119.0	11.9
20°-30°	33.5	3.3
30°-40°	7.7	0.8
40°-50°	4.0	0.4
50°-60°	2.3	0.2
60°-70°	1.5	0.1
70°-80°	0.4	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.7	0.1
110°-120°	1.5	0.1
120°-130°	2.3	0.2
130°-140°	4.0	0.4
140°-150°	7.7	0.8
150°-160°	33.5	3.3
160°-170°	119.0	11.9
170°-180°	332.0	33.2
0°-30°	484.5	48.4
0°-40°	492.2	49.2
0°-60°	498.6	49.8
0°-90°	500.5	50.0
90°-120°	2.2	0.2
90°-150°	16.2	1.6
90°-180°	501.0	50.1
0°-180°	1001.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6602	
5°	4437	332
15°	319	119
25°	70	33
35°	11	8
45°	4	4
55°	2	2
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	1
115°	1	1
125°	2	2
135°	4	4
145°	11	8
155°	70	33
165°	319	119
175°	4437	332
180°	6602	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	6601.7
1°	6439.0
2°	6087.5
3°	5576.6
4°	5004.5
5°	4436.8
6°	3876.7
7°	3309.0
8°	2716.2
9°	2118.0
10°	1561.2
11°	1089.5
12°	740.2
13°	525.1
14°	399.6
15°	318.8
17.5°	206.3
20°	149.6
22.5°	108.1
25°	69.9
27.5°	40.4
30°	22.9
32.5°	15.3
35°	10.9
37.5°	8.7
40°	7.6
42.5°	6.6
45°	4.4
47.5°	4.4
50°	3.3
52.5°	3.3
55°	2.2
57.5°	2.2
60°	2.2
62.5°	2.2
65°	1.1
67.5°	1.1
70°	1.1
72.5°	1.1
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°	1.1
110°	1.1
112.5°	1.1
115°	1.1
117.5°	2.2
120°	2.2
122.5°	2.2
125°	2.2
127.5°	3.3
130°	3.3
132.5°	4.4
135°	4.4
137.5°	6.6
140°	7.6
142.5°	8.7
145°	10.9
147.5°	15.3
150°	22.9
152.5°	40.4
155°	69.9
157.5°	108.1
160°	149.6
162.5°	206.3
165°	318.8
166°	399.6
167°	525.1
168°	740.2
169°	1089.5
170°	1561.2
171°	2118.0
172°	2716.2
173°	3309.0
174°	3876.7
175°	4436.8
176°	5004.5
177°	5576.6
178°	6087.5
179°	6439.0



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CANDELA DISTRIBUTION (continued):

180° $\overbrace{\hspace{1.5cm}}^{0^\circ}$
6601.7

(END OF REPORT)