

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: P221871

Luminaire Tested: **9004-W2-[RW, RI]-LED4080-M-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221871
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29492)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9004-W2-[RW, RI]-LED4080-M-BK-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED 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: 2069.2 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

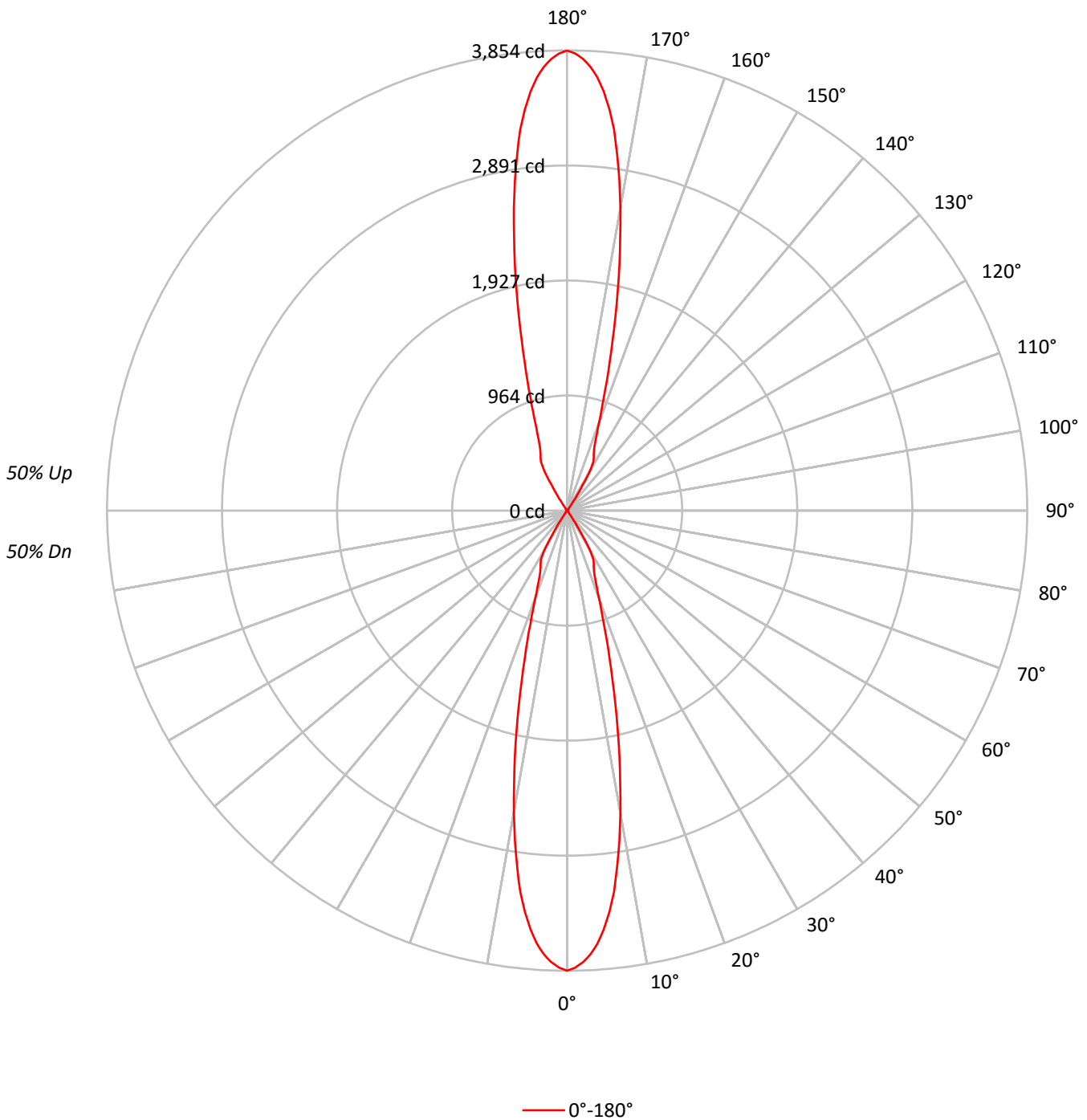
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	92	93	91	88	86	77	76	74	65	64	63	54	54	53	48
2	95	89	85	81	88	83	80	77	72	70	67	62	60	59	52	51	50	46
3	89	82	77	73	83	77	73	69	68	64	62	59	57	55	50	49	48	44
4	84	76	71	66	79	72	67	63	64	60	57	56	53	51	48	47	46	43
5	80	71	65	61	75	67	62	58	60	56	53	53	51	49	47	45	44	41
6	76	67	61	57	71	63	58	54	57	53	50	51	48	46	45	43	42	40
7	72	63	57	53	68	60	55	51	54	50	47	49	46	44	43	42	40	38
8	68	59	53	50	64	57	51	48	51	48	45	47	44	42	42	40	39	37
9	65	56	51	47	62	54	49	45	49	45	43	45	42	40	41	39	37	36
10	62	53	48	44	59	51	46	43	47	43	41	43	40	38	39	37	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	475312
5°	436083
10°	321751
15°	187804
20°	101846
25°	71968
30°	52157
35°	6490
40°	2222
45°	872
50°	556
55°	452
60°	321
65°	233
70°	144
75°	191
80°	284
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.4	14.8
10°-20°	409.5	19.8
20°-30°	248.4	12.0
30°-40°	63.6	3.1
40°-50°	4.5	0.2
50°-60°	1.9	0.1
60°-70°	0.8	0.0
70°-80°	0.4	0.0
80°-90°	0.1	0.0
90°-100°	0.1	0.0
100°-110°	0.4	0.0
110°-120°	0.8	0.0
120°-130°	1.9	0.1
130°-140°	4.5	0.2
140°-150°	63.6	3.1
150°-160°	248.4	12.0
160°-170°	409.5	19.8
170°-180°	305.4	14.8
0°-30°	963.3	46.6
0°-40°	1026.9	49.6
0°-60°	1033.3	49.9
0°-90°	1034.6	50.0
90°-120°	1.3	0.1
90°-150°	71.3	3.4
90°-180°	1035.0	50.0
0°-180°	2069.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3854	
5°	3522	305
15°	1471	410
25°	529	248
35°	43	64
45°	5	5
55°	2	2
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	1	1
125°	2	2
135°	5	5
145°	43	64
155°	529	248
165°	1471	410
175°	3522	305
180°	3854	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3853.5
1°	3828.8
2°	3784.9
3°	3722.2
4°	3636.5
5°	3522.0
6°	3379.0
7°	3218.1
8°	3012.4
9°	2792.9
10°	2568.9
11°	2333.1
12°	2101.5
13°	1879.9
14°	1667.1
15°	1470.7
16°	1295.1
17°	1136.7
18°	995.4
19°	876.2
20°	775.9
21°	696.9
22°	634.2
23°	587.8
24°	554.7
25°	528.8
26°	507.9
27°	489.9
28°	468.6
29°	429.7
30°	366.2
32.5°	174.3
35°	43.1
37.5°	23.4
40°	13.8
42.5°	6.3
45°	5.0
47.5°	4.2
50°	2.9
52.5°	2.5
55°	2.1
57.5°	1.7
60°	1.3
62.5°	1.3
65°	0.8



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.4
70°	0.4
72.5°	0.4
75°	0.4
77.5°	0.4
80°	0.4
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°	0.4
102.5°	0.4
105°	0.4
107.5°	0.4
110°	0.4
112.5°	0.4
115°	0.8
117.5°	1.3
120°	1.3
122.5°	1.7
125°	2.1
127.5°	2.5
130°	2.9
132.5°	4.2
135°	5.0
137.5°	6.3
140°	13.8
142.5°	23.4
145°	43.1
147.5°	174.3
150°	366.2
151°	429.7
152°	468.6
153°	489.9
154°	507.9
155°	528.8
156°	554.7
157°	587.8
158°	634.2
159°	696.9
160°	775.9
161°	876.2



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CANDELA DISTRIBUTION (continued):

	0°
162°	995.4
163°	1136.7
164°	1295.1
165°	1470.7
166°	1667.1
167°	1879.9
168°	2101.5
169°	2333.1
170°	2568.9
171°	2792.9
172°	3012.4
173°	3218.1
174°	3379.0
175°	3522.0
176°	3636.5
177°	3722.2
178°	3784.9
179°	3828.8
180°	3853.5

(END OF REPORT)