Modeling and Lighting Interior Spaces using Reflected Natural Light

Noah Alexiou

October 29, 2024

Contents

1	ntroduction	2
	.1 Premise	2
	.2 Assumptions	2
	.3 Observations	2
	.4 Translation	2
2	Solve	2
3	Evaluate	2
	.1 Reasonableness	2
	.2 Strenghts and Limitations of Solution	2
4	Conclusion	2

1 Introduction

1.1 Premise

- Study aims to find optimal mirror placement in order to light as much of the cave as possible

1.2 Assumptions

In Order for a solution to be formed, a set of constants must be assumed.

- Light brightness does not decrease as it travels through the cave and bounces off mirrors

1.3 Observations

- Mirrors will stand parralel from the ground and entend to the ceiling, Dimentions unknown... Possibly variable

1.4 Translation

- 2 Solve
- 3 Evaluate
- 3.1 Reasonableness
- 3.2 Strenghts and Limitations of Solution
- 4 Conclusion