



# Lighting Calculation Study

NFPA 101, Life Safety Code, requires emergency lighting system performance as follows:Emergency lighting shall provide no less than an average of 1 footcandle, with no points less than 0.1 footcandle as measured at the floor while maintaining a max to min ratio of 40 to 1. The diagram provided is to assist in the design and layout of an emergency lighting system.All performance tests compiled by an independent testing laboratory. Thomas&Betts is not responsible for site-specific conditions that may alter the performance of the emergency lighting product.

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**Project name : Piseo quad centre**

**Prepared for: Kelley McAlpine**

**Filename: Piseo quad centre 2.AGI**

**By : Peer Eric Moldvar**

**Units:**

**Date:12/19/2025**

AGi32® Version 22.2.80

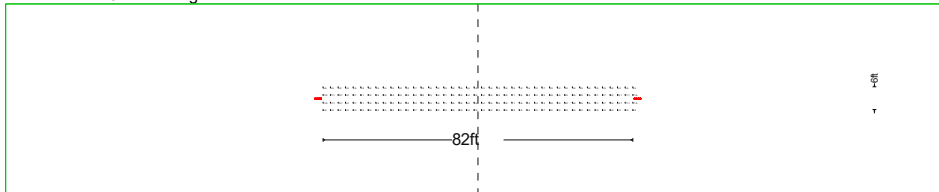
Total Time (Hrs.): 5.87

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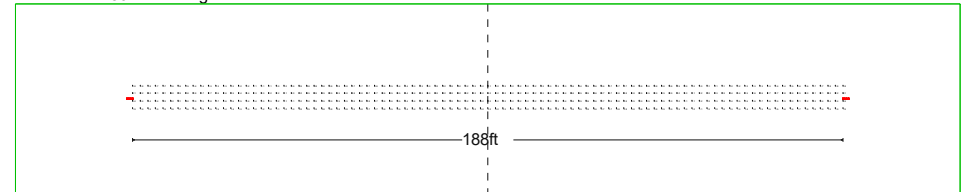


Luminaire Schedule							
Symbol	Qty	Label	Description	Lum. Lumens	Lum. Watts	LLF	Filename
3	48	R-LAB-2173-1 V1 - ABB - Module Egress puck 600mA-corr	E-LAB-2173-1	875	6.62	1.000	R-LAB-2173-1 V1 - ABB - Module Egress puck 600mA- corr. IES

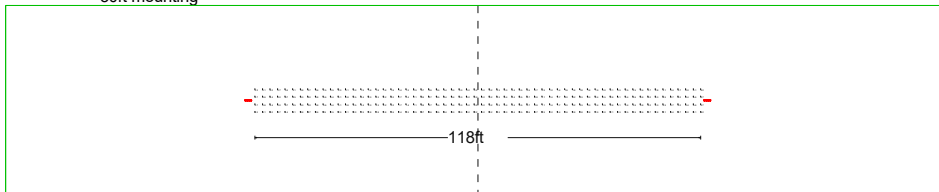
20ft mounting



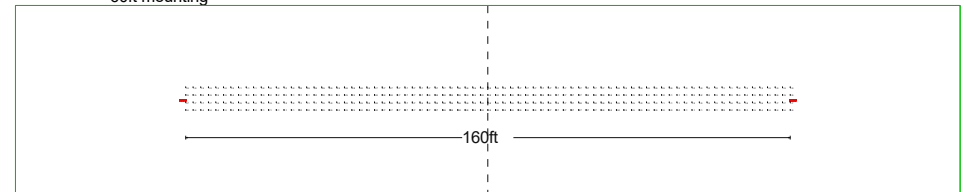
50ft mounting



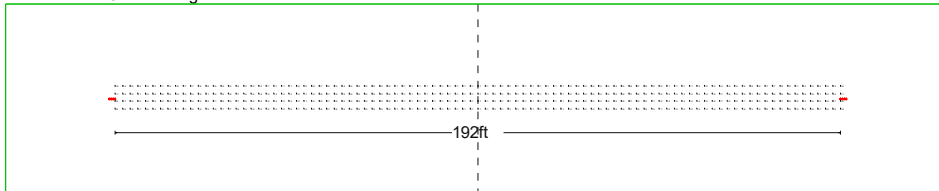
30ft mounting



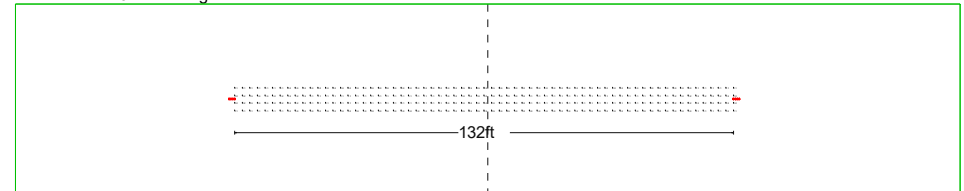
60ft mounting



40ft mounting



70ft mounting



Calculation Summary								
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	Grid Z
20ft	illuminance	Fc	4.01	11.5	0.3	13.37	38.33	0
30ft	illuminance	Fc	2.25	5.7	0.2	11.25	28.50	0
40ft	illuminance	Fc	1.18	3.7	0.1	11.80	37.00	0
50ft	illuminance	Fc	1.01	2.4	0.1	10.10	24.00	0
60ft	illuminance	Fc	1.01	1.7	0.7	1.44	2.43	0
70ft	illuminance	Fc	1.06	1.3	0.9	1.18	1.44	0

Ceiling 70'  
Level on the floor  
Reflectances: 40-50-20

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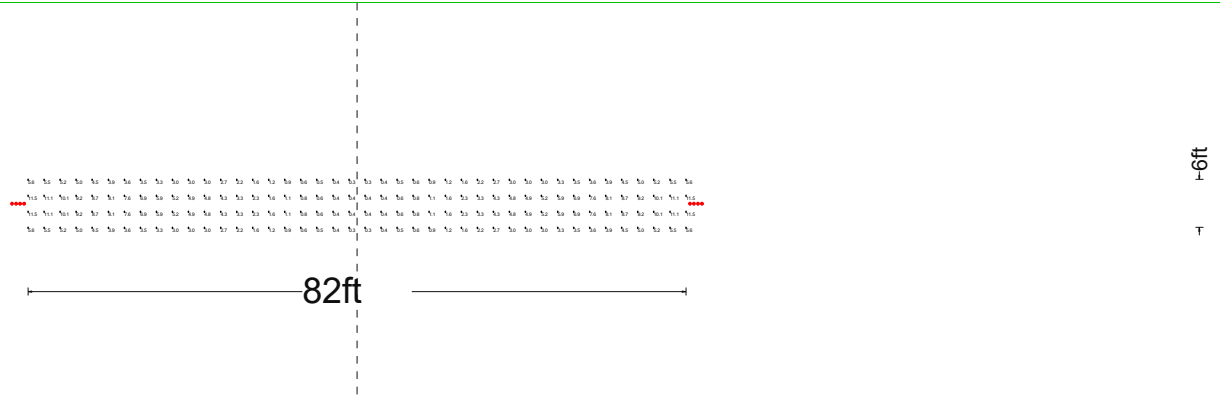
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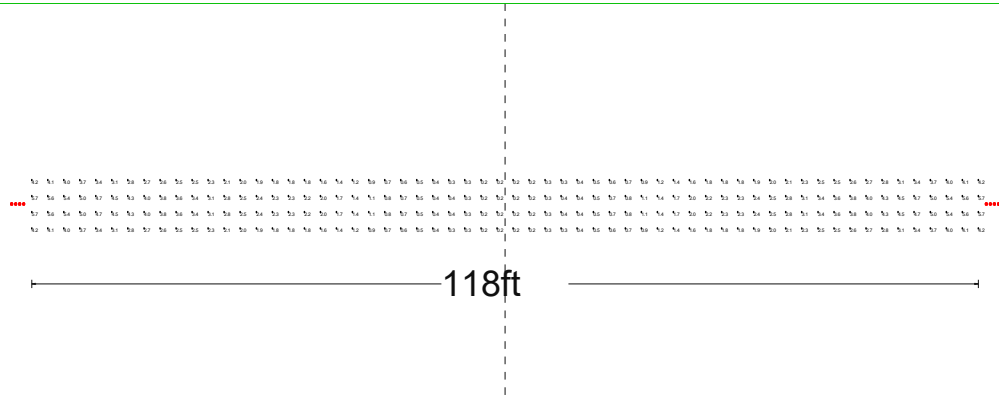
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### 20ft mounting



### 30ft mounting



### 40ft mounting

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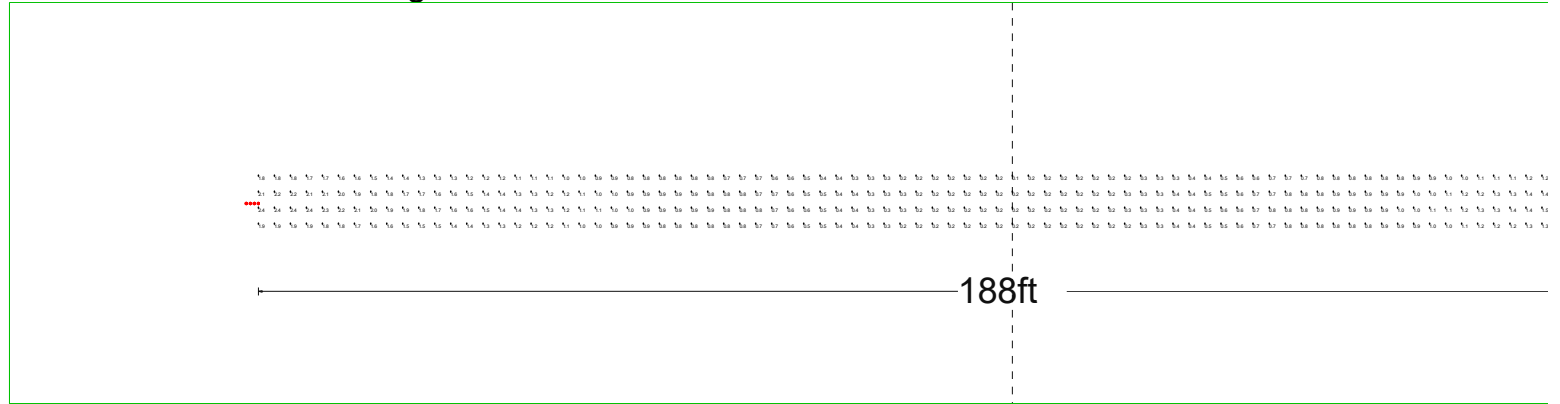
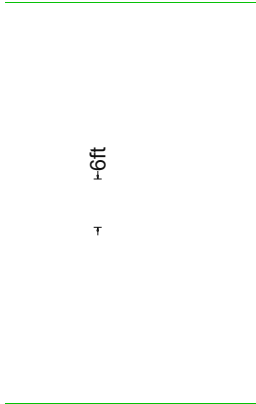
40ft mounting



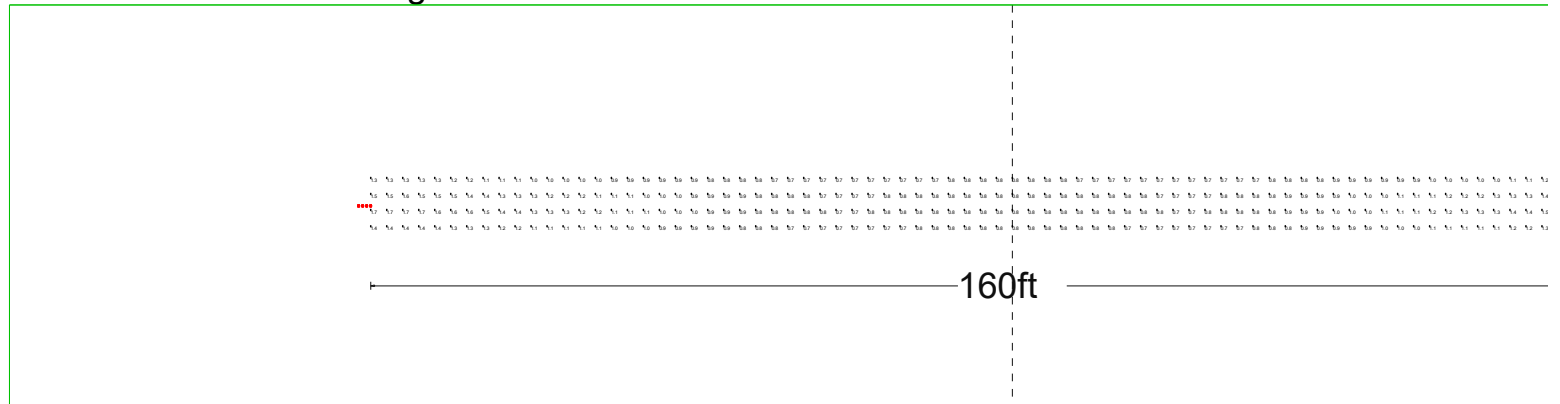
Calculation Summary						
Label	CalcType	Units	Avg	Max	Min	Avg/Min
20ft	Illuminance	Fc	4.01	11.5	0.3	13.37
30ft	Illuminance	Fc	2.25	5.7	0.2	11.25
40ft	Illuminance	Fc	1.18	3.7	0.1	11.80
50ft	Illuminance	Fc	1.01	2.4	0.1	10.10
60ft	Illuminance	Fc	1.01	1.7	0.7	1.44
70ft	Illuminance	Fc	1.06	1.3	0.9	1.18



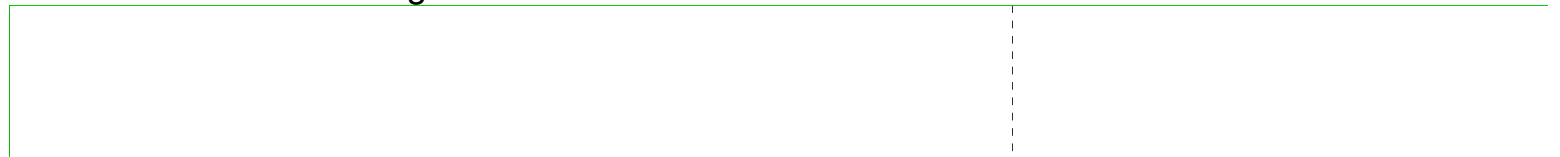
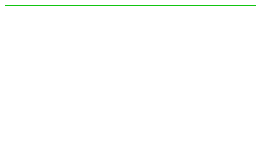
### 50ft mounting



### 60ft mounting



### 70ft mounting



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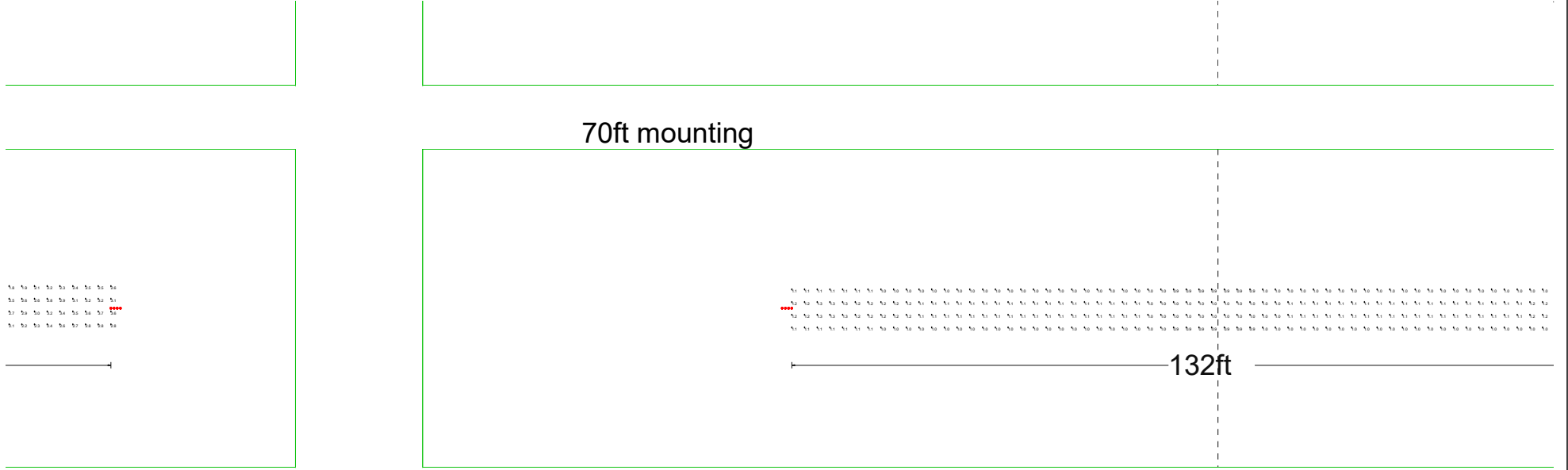
**By : Peer Eric Moldvar**

**Units:**

**Date:12/19/2025**

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70ft mounting

132ft

Min	Avg/Min	Max/Min	Grid Z
0.3	13.37	38.33	0
0.2	11.25	28.50	0
0.1	11.80	37.00	0
0.1	10.10	24.00	0
0.7	1.44	2.43	0
0.9	1.18	1.44	0

Ceiling 70'  
Level on the floor  
Reflectances: 40-50-20

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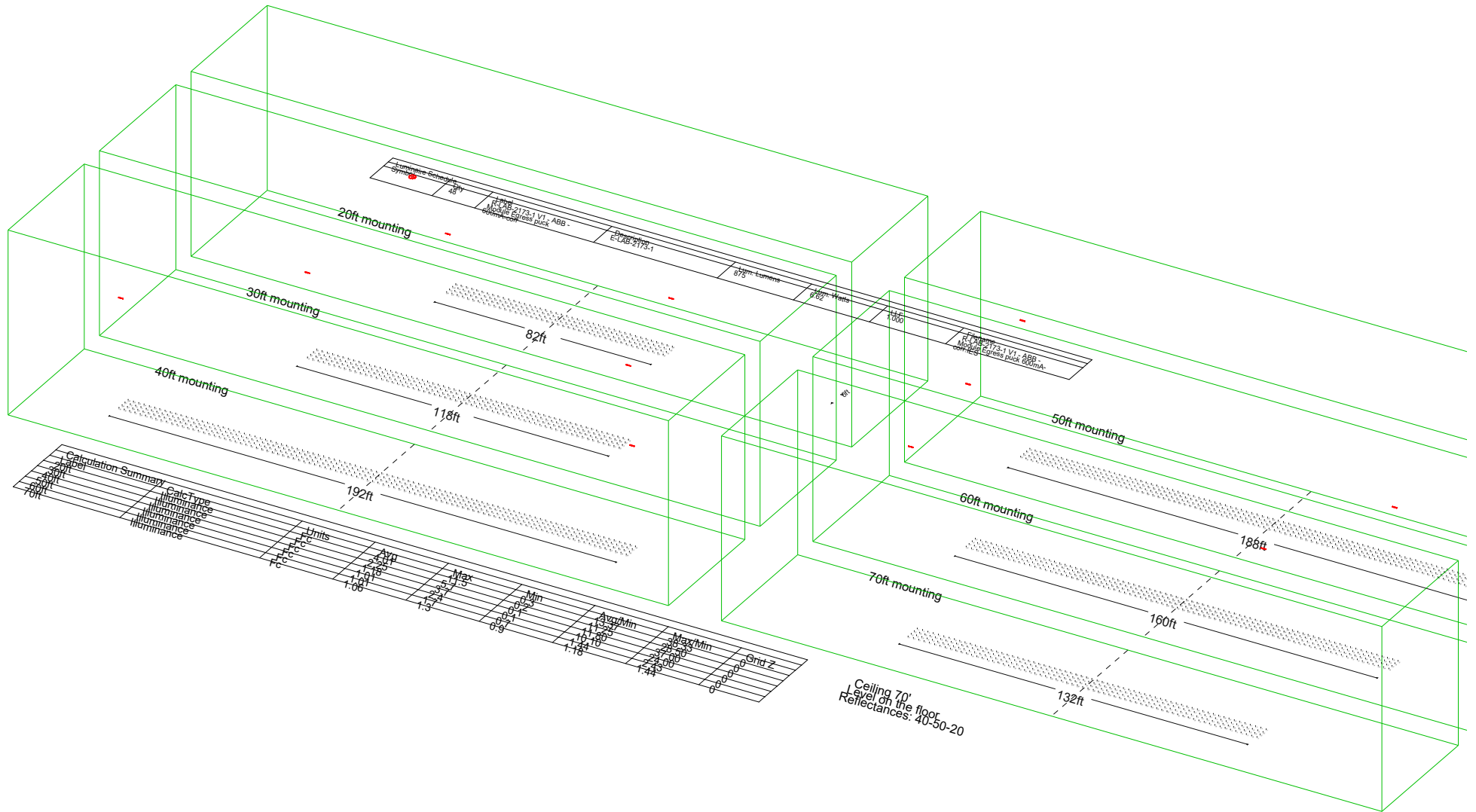
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Calculation Summary		Calc Type	Units	Max	Min	Avg/Min	Max/Min	Grid Z
20ft	20ft	ILLUMINANCE	fc	1.57	0.97	1.13	2.52	000000
30ft	30ft	ILLUMINANCE	fc	1.06	0.65	0.84	1.80	000000
40ft	40ft	ILLUMINANCE	fc	0.79	0.49	0.64	1.36	000000
50ft	50ft	ILLUMINANCE	fc	0.62	0.39	0.52	1.12	000000
60ft	60ft	ILLUMINANCE	fc	0.51	0.32	0.43	0.92	000000
70ft	70ft	ILLUMINANCE	fc	0.42	0.26	0.35	0.75	000000

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# Results summary

Luminaire Schedule								
Symbol	Qty	Label	Description	Lum. Lumens	LLF	Lum. Watts	Filename	Mounting Height
⊕	48	R-LAB-2173-1 V1 - ABB - Module Egress puck 600mA-corr	E-LAB-2173-1	875	1.000	6.62	R-LAB-2173-1 V1 - ABB - Module Egress puck 600mA-corr.IES	20, 30, 40, 50, 60, 70

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
20ft	Illuminance	Fc	4.01	11.5	0.3	13.37	38.33
30ft	Illuminance	Fc	2.25	5.7	0.2	11.25	28.50
40ft	Illuminance	Fc	1.18	3.7	0.1	11.80	37.00
50ft	Illuminance	Fc	1.01	2.4	0.1	10.10	24.00
60ft	Illuminance	Fc	1.01	1.7	0.7	1.44	2.43
70ft	Illuminance	Fc	1.06	1.3	0.9	1.18	1.44

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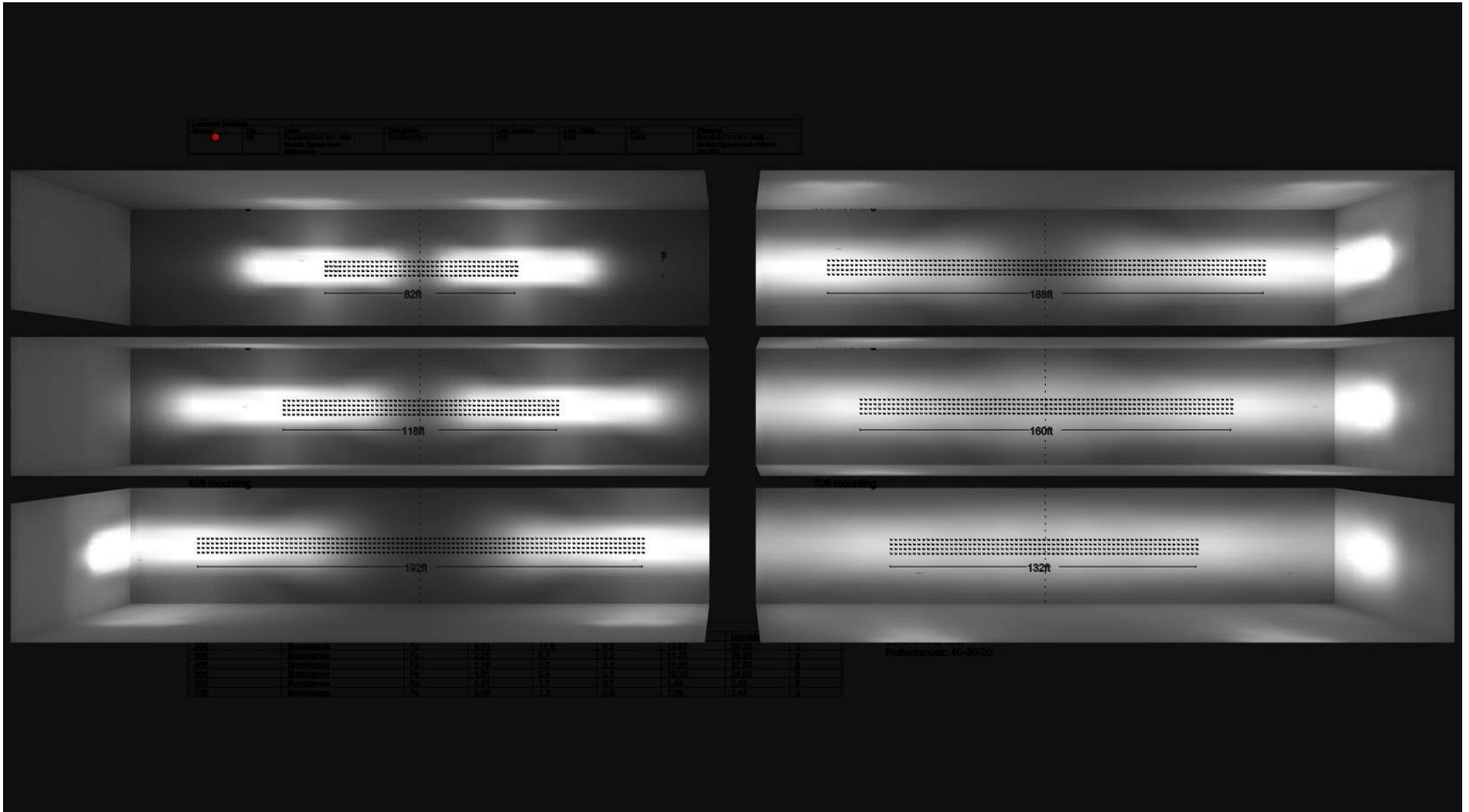
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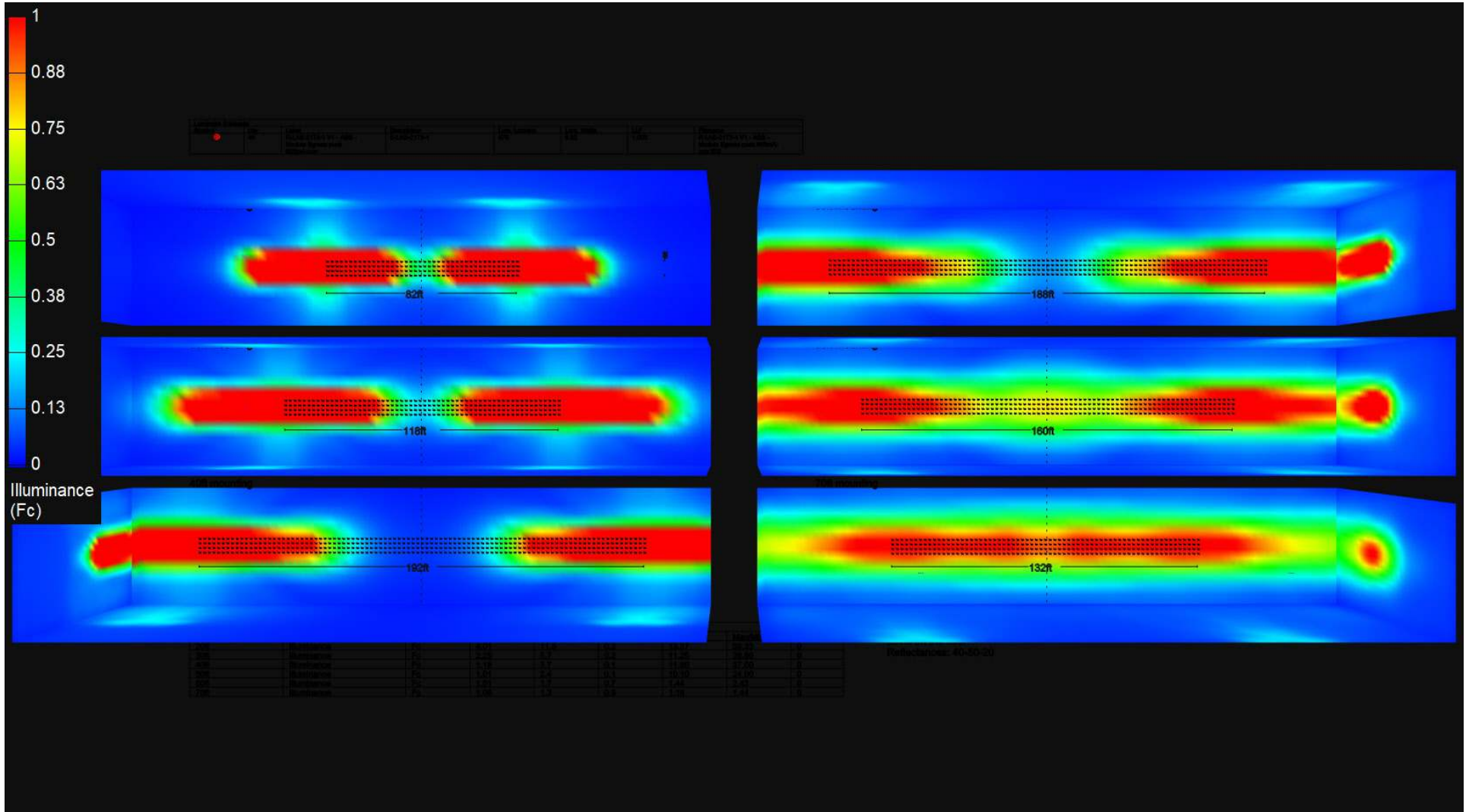
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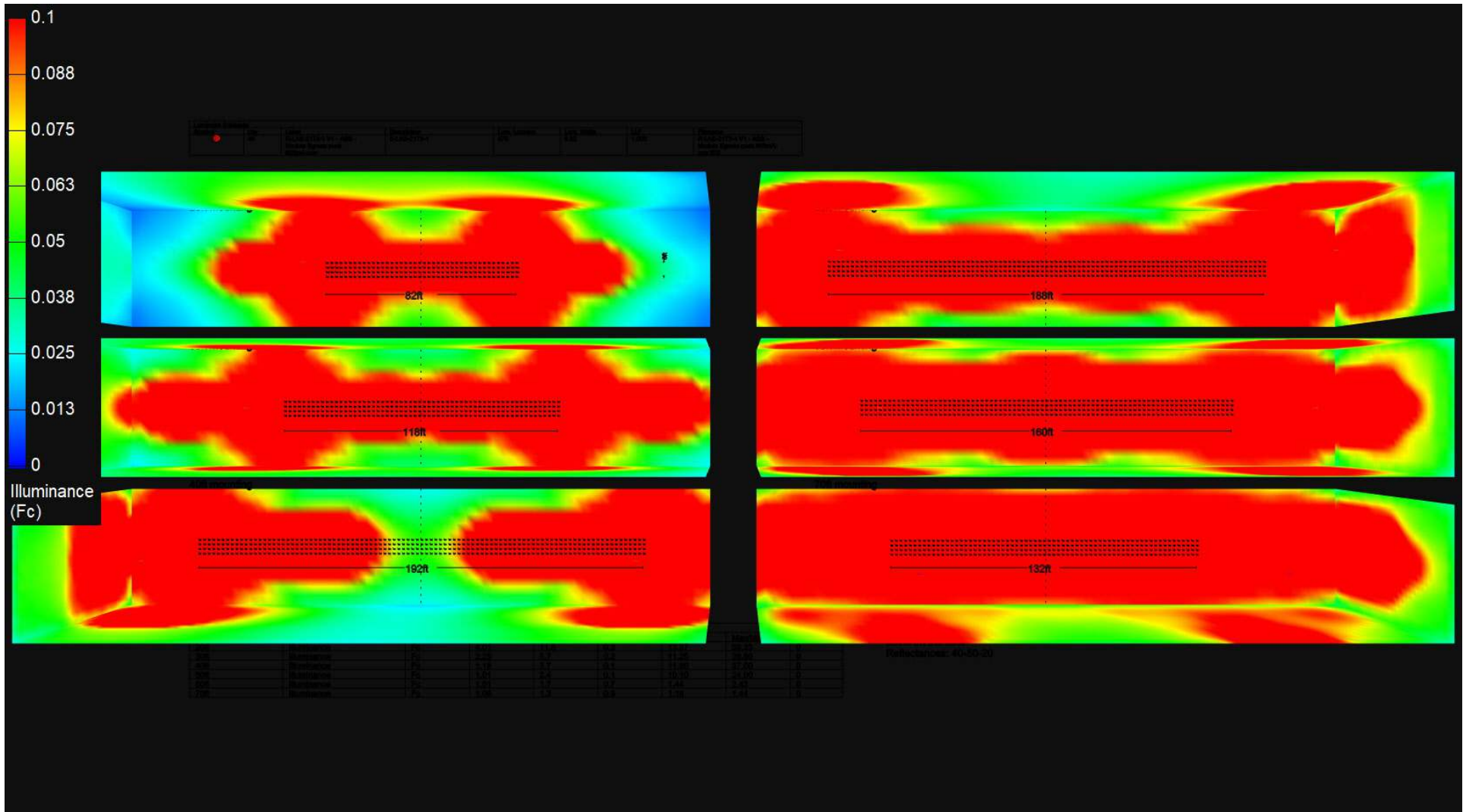
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