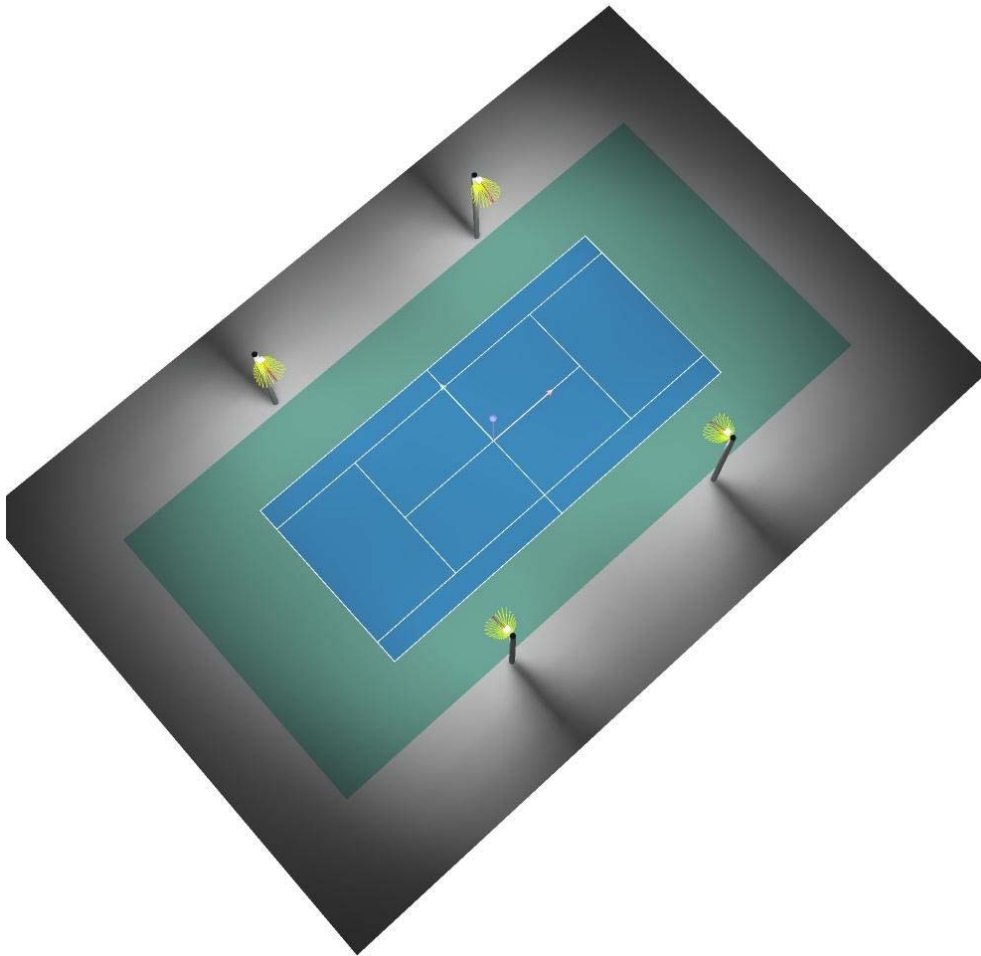


Tennis Court Lighting - Club Level
Full Cut Off - 3000 Kelvin LEDs - Dark Sky Compliant**
(4) 25' Poles and (4) APTA 720s with 3/4 Baffles
Average 37 Footcandles - 1.32 Max/Min Ratio



This photometric study was generated using methods recommended by the Illuminating Engineering Society of North America (IESNA). The calculations in this report are based on data provided by a third party. The accuracy of this report is dependent on the accuracy of the data provided. End user environment and application including but not limited to voltage variation and dirt accumulation can cause actual photometric performance to differ from the performance calculated using the data provided. This report is provided without warranty as to accuracy, completeness, reliability or otherwise. In no event will Access Fixtures be responsible for any loss resulting from use of this report.

**** Dark Sky requirements may vary. 3000 Kelvin is a typical standard. 2200 Kelvin may be required. Check your local lighting ordinances.**



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Table of contents

tennis court	
Project Cover	1
Table of contents	2
Luminaire parts list	3
AF88X-PBD720-T3S-50K-3535F-Baffle	
Luminaire Data Sheet	4
Exterior Scene 1	
Planning data	5
Luminaires (layout plan)	6
Luminaires (coordinates list)	7
3D Rendering	8
False Colour Rendering	9
Exterior Surfaces	
Tennis 1 Calculation Grid (PA)	
Summary	10
Isolines (E, Perpendicular)	11
Greyscale (E, Perpendicular)	12
Value Chart (E, Perpendicular)	13
Table (E, Perpendicular)	14
20FT	
Summary	16
Value Chart (E, Perpendicular)	17
40FT	
Summary	18
Value Chart (E, Perpendicular)	19

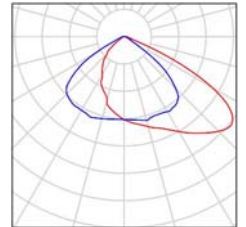


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tennis court / Luminaire parts list

4 Pieces AF88X-PBD720-T3S-50K-3535F-Baffle
Article No.:
Luminous flux (Luminaire): 77966 lm
Luminous flux (Lamps): 78269 lm
Luminaire Wattage: 681.6 W
Luminaire classification according to CIE: 100
CIE flux code: 48 89 99 100 100
Fitting: 1 x 5000K 3535F (Correction Factor
1.000).

See our luminaire
catalog for an image of
the luminaire.



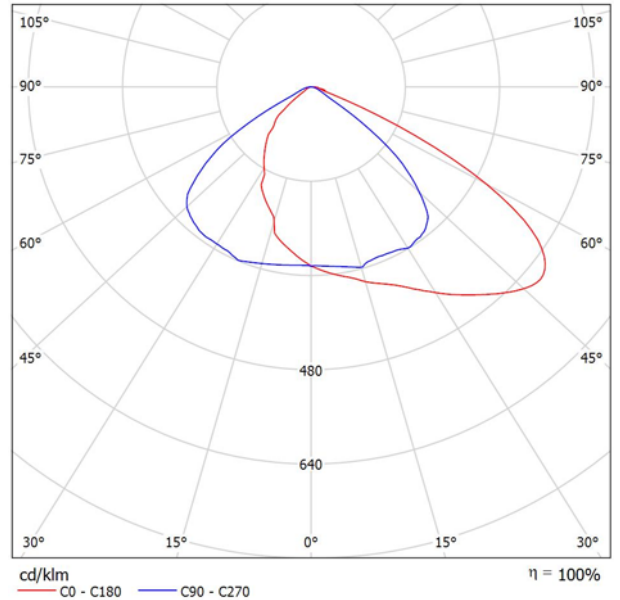


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AF88X-PBD720-T3S-50K-3535F-Baffle / Luminaire Data Sheet

Luminous emittance 1:

See our luminaire catalog for an image of the luminaire.



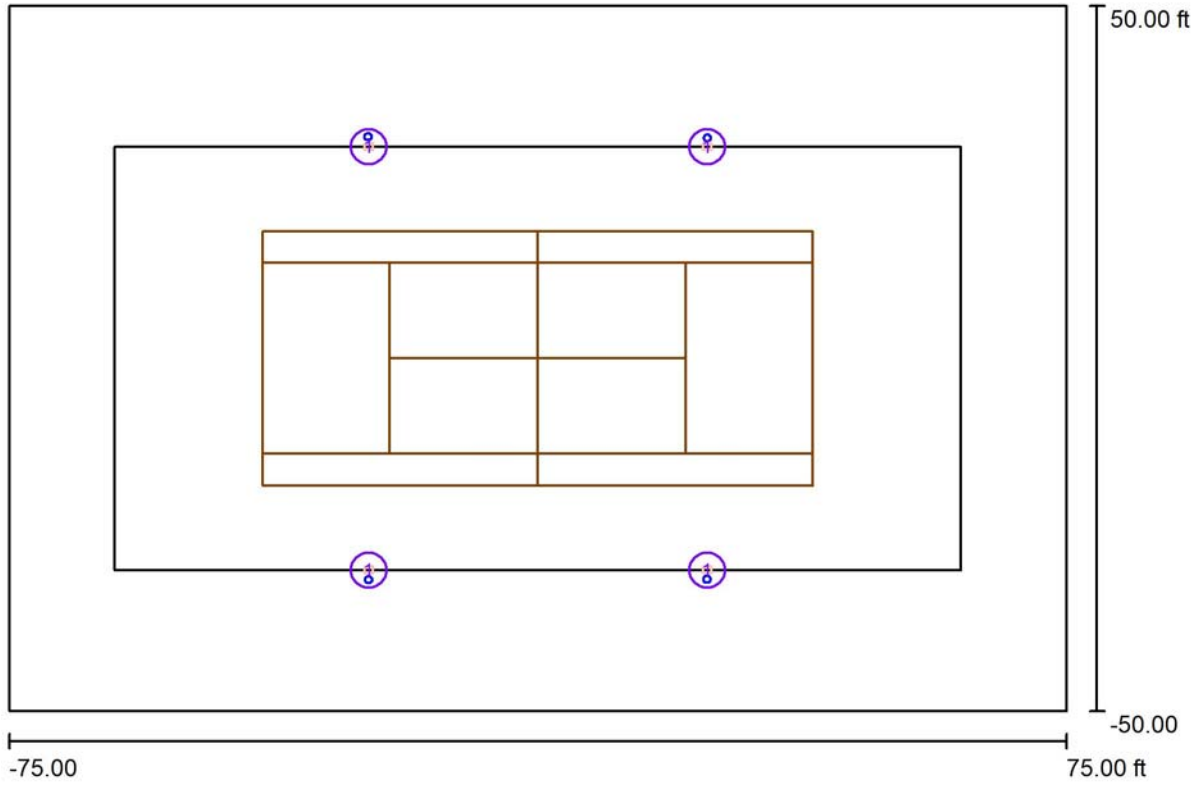
Luminaire classification according to CIE: 100
CIE flux code: 48 89 99 100 100

Due to missing symmetry properties, no UGR table can be displayed for this luminaire.



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Exterior Scene 1 / Planning data



Maintenance factor: 0.90, ULR (Upward Light Ratio): 0.0%

Scale 1:327

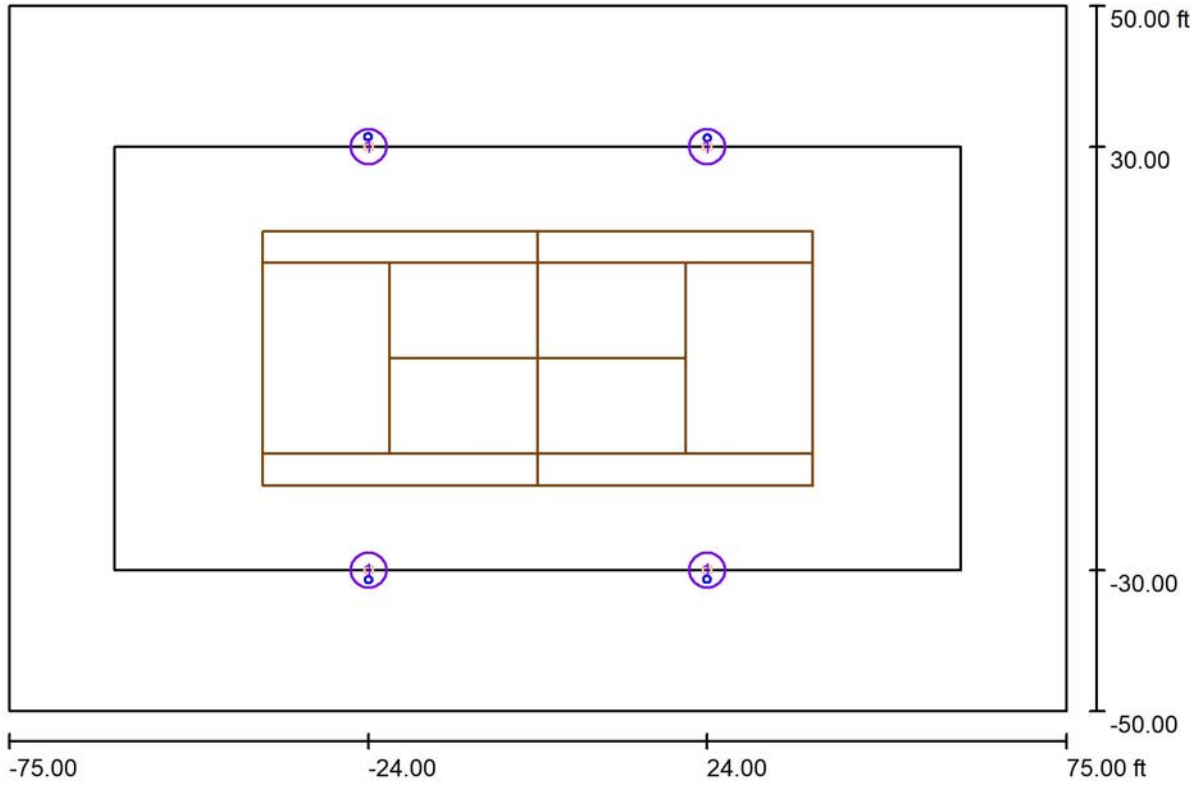
Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	4	AF88X-PBD720-T3S-50K-3535F-Baffle (1.000)	77966	78269	681.6
Total:			311862	313075	2726.4



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Exterior Scene 1 / Luminaires (layout plan)



Scale 1 : 327

Luminaire Parts List

No.	Pieces	Designation
1	4	AF88X-PBD720-T3S-50K-3535F-Baffle

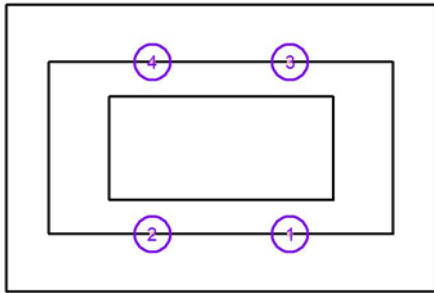


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Exterior Scene 1 / Luminaires (coordinates list)

AF88X-PBD720-T3S-50K-3535F-Baffle

77966 lm, 681.6 W, 1 x 1 x 5000K 3535F (Correction Factor 1.000).

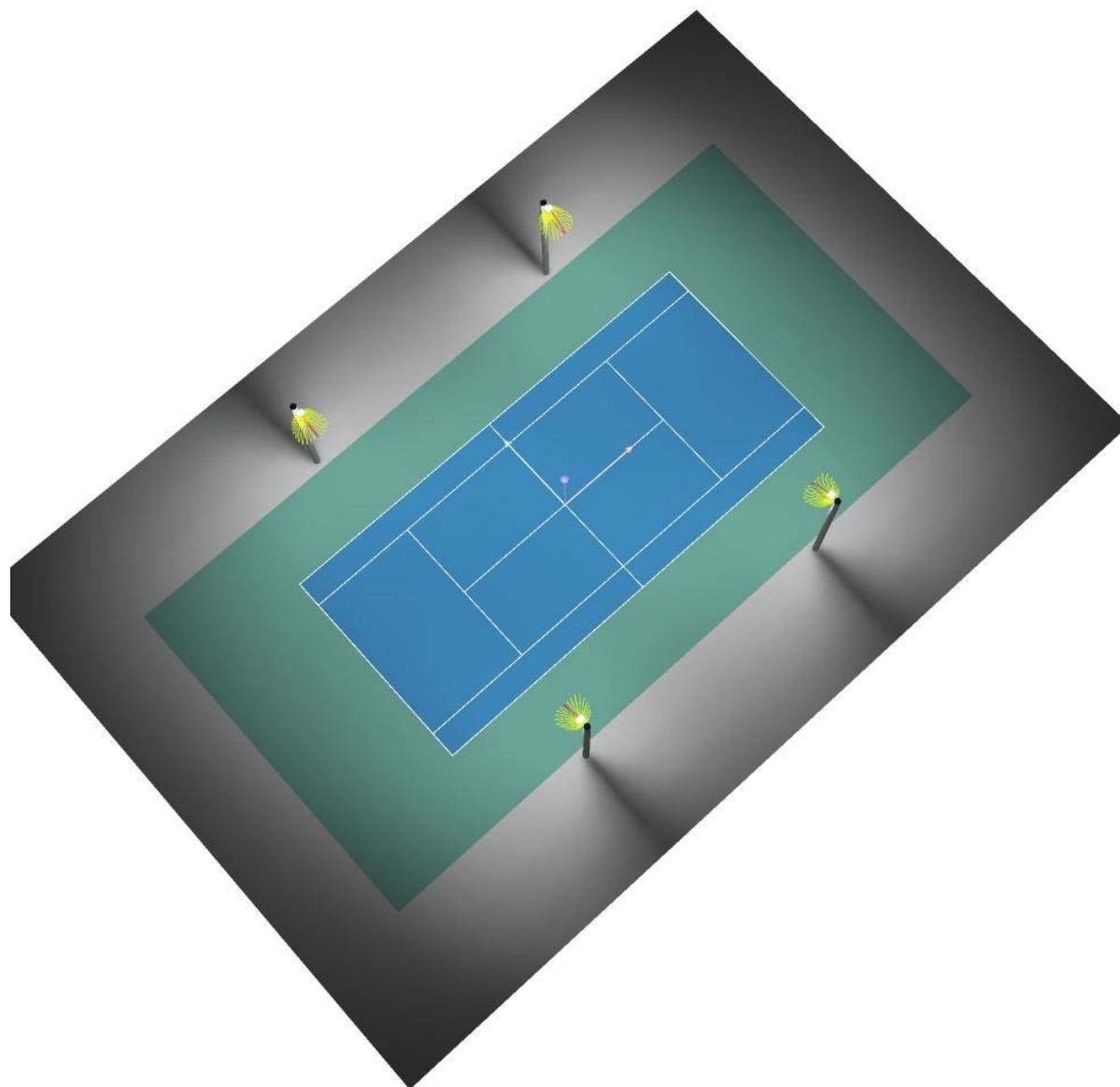


No.	Position [ft]			Rotation [°]		
	X	Y	Z	X	Y	Z
1	24.000	-30.000	25.000	0.0	0.0	90.0
2	-24.000	-30.000	25.000	0.0	0.0	90.0
3	24.000	30.000	25.000	0.0	0.0	-90.0
4	-24.000	30.000	25.000	0.0	0.0	-90.0



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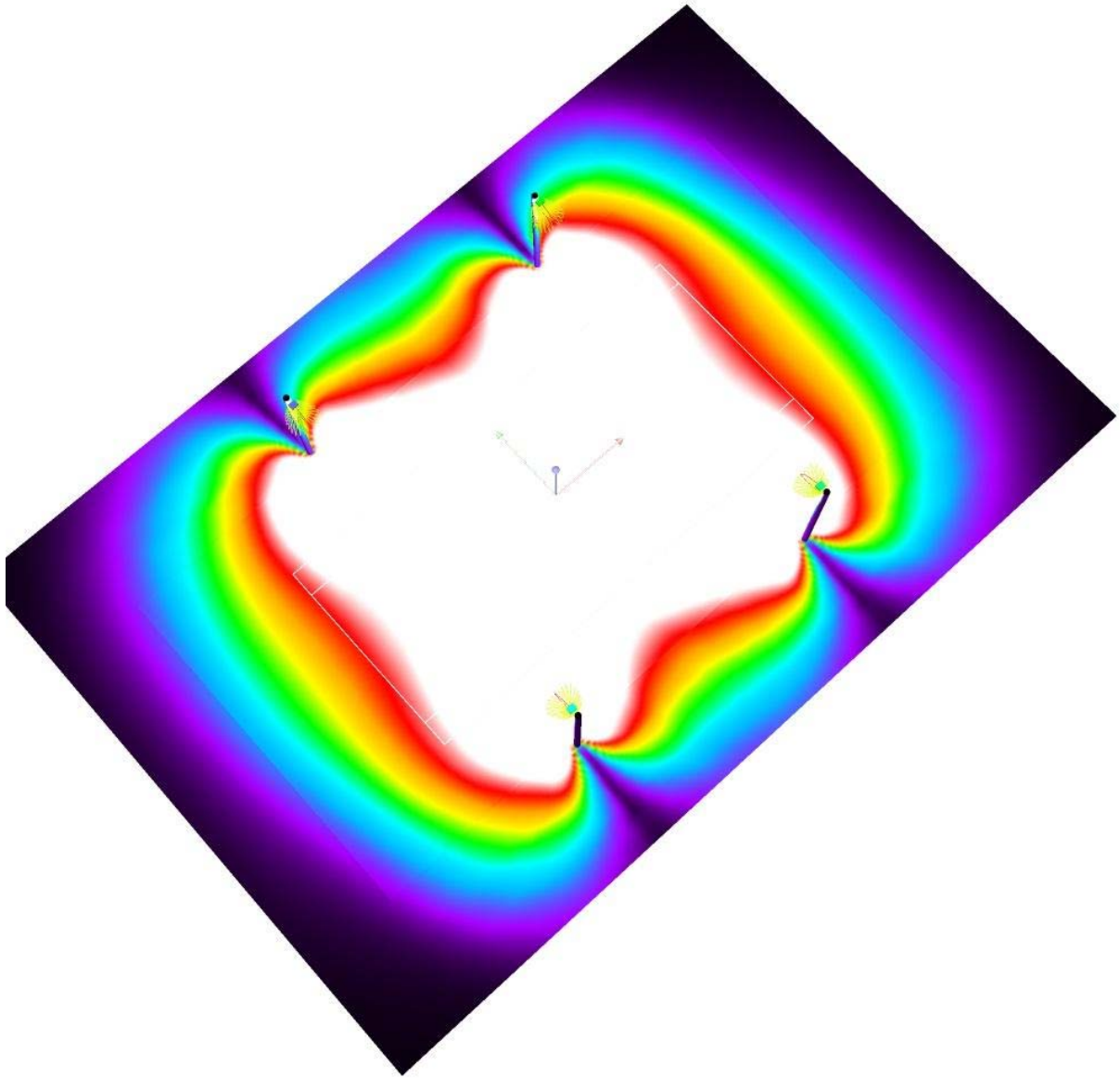
Exterior Scene 1 / 3D Rendering





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Exterior Scene 1 / False Colour Rendering



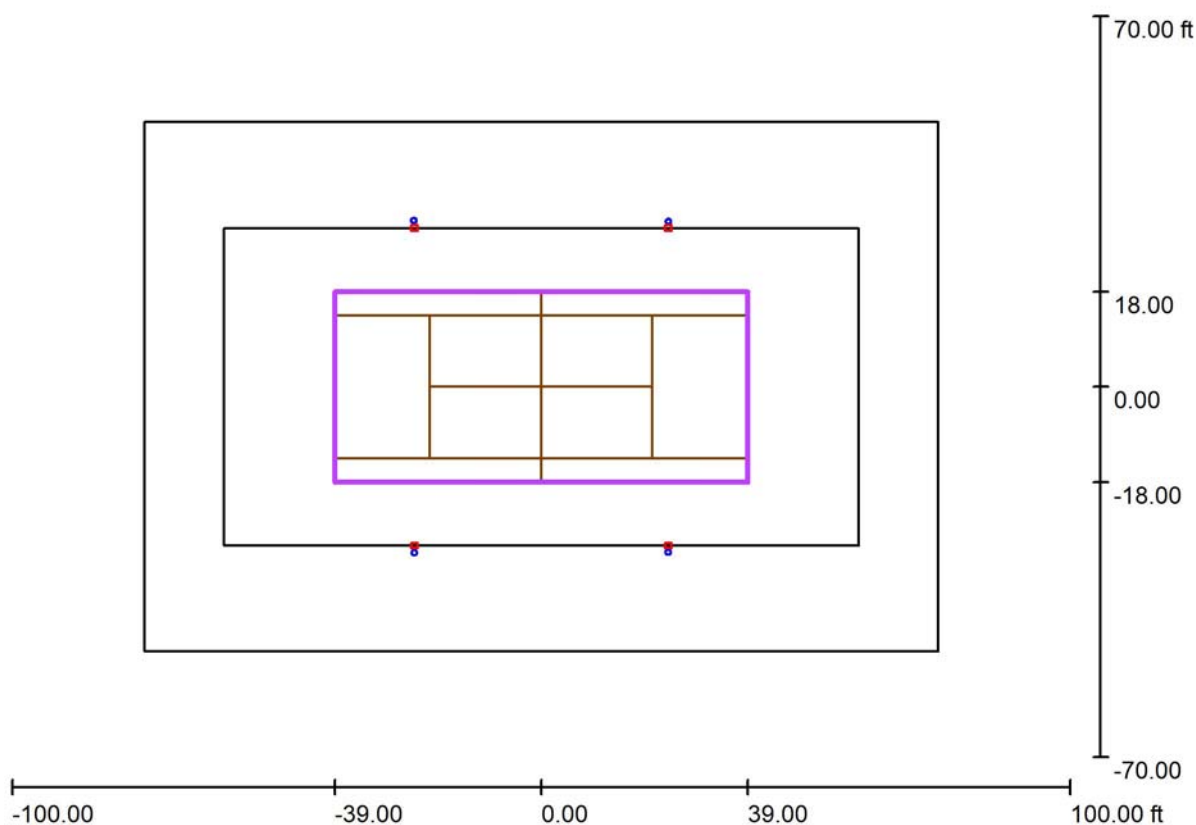
0 3.75 7.50 11.25 15.00 18.75 22.50 26.25 30.00

fc



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Exterior Scene 1 / Tennis 1 Calculation Grid (PA) / Summary



Scale 1 : 436

Position: (0.000 ft, 0.000 ft, 0.000 ft)
 Size: (78.000 ft, 36.000 ft)
 Rotation: (0.0°, 0.0°, 0.0°)
 Type: Normal, Grid: 13 x 5 Points
 Belongs to the following sport arena: Tennis 1

Results overview

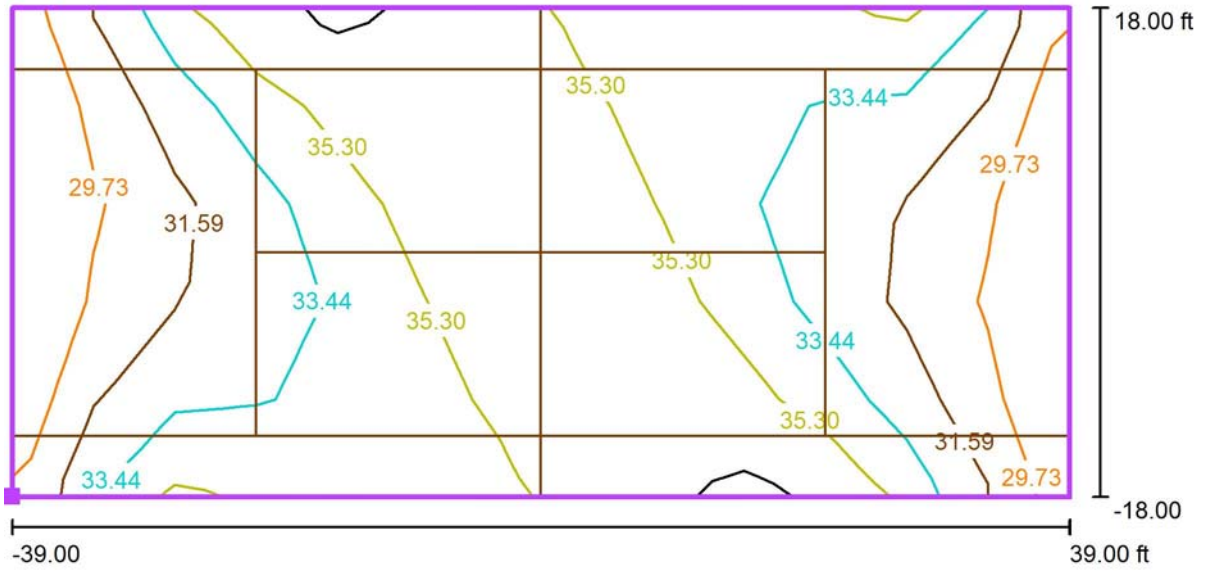
No.	Type	E_{av} [fc]	E_{min} [fc]	E_{max} [fc]	u0	E_{min} / E_{max}	$E_{h\ m} / E_m$	H [ft]	Camera
1	perpendicular	34	28	37	0.84	0.76	/	0.000	/

$E_{h\ m} / E_m$ = Relationship between middle horizontal and vertical illuminance, H = Measuring Height



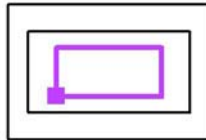
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Exterior Scene 1 / Tennis 1 Calculation Grid (PA) / Isolines (E, Perpendicular)



Values in Footcandles, Scale 1 : 170

Position of surface in external scene:
 Marked point: (-39.000 ft, -18.000 ft,
 0.000 ft)



Grid: 13 x 5 Points

E_{av} [fc]
 34

E_{min} [fc]
 28

E_{max} [fc]
 37

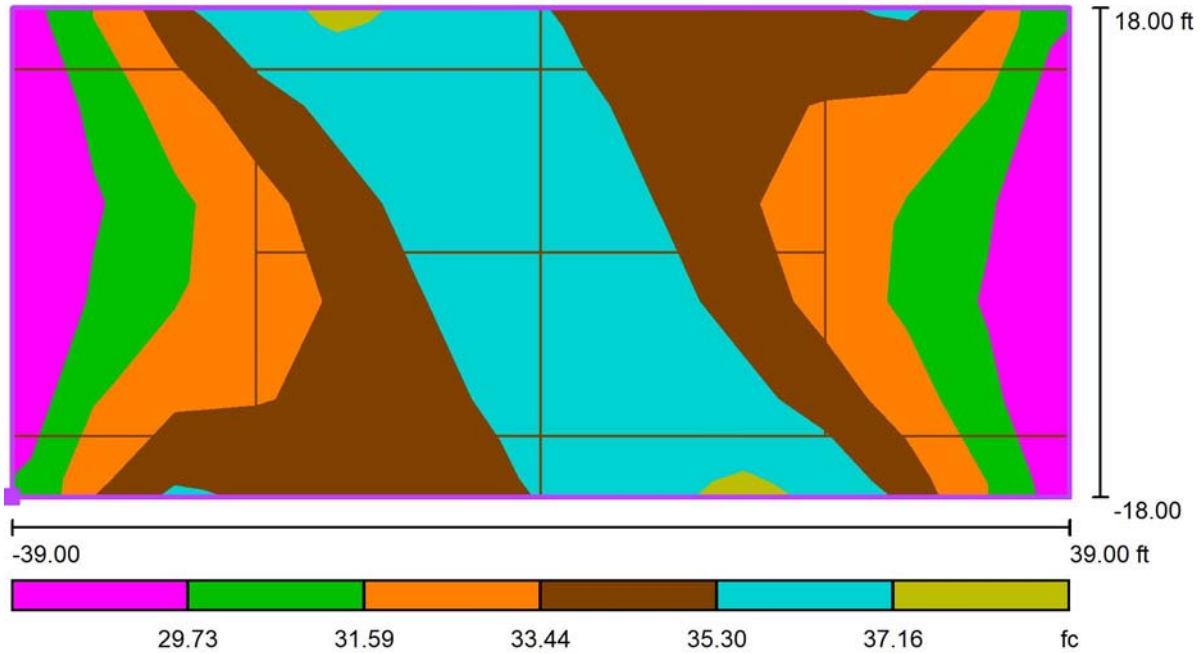
u_0
 0.84

E_{min} / E_{max}
 0.76



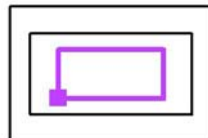
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Exterior Scene 1 / Tennis 1 Calculation Grid (PA) / Greyscale (E, Perpendicular)



Scale 1 : 170

Position of surface in external scene:
Marked point: (-39.000 ft, -18.000 ft,
0.000 ft)



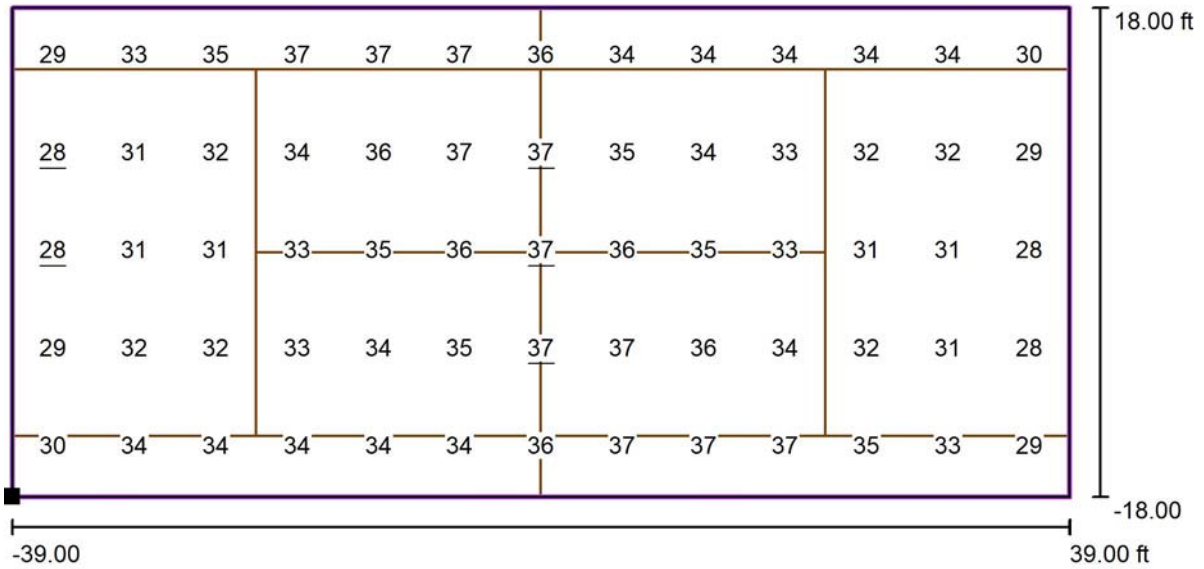
Grid: 13 x 5 Points

E_{av} [fc]	E_{min} [fc]	E_{max} [fc]	u0	E_{min} / E_{max}
34	28	37	0.84	0.76



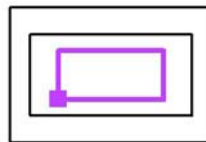
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Exterior Scene 1 / Tennis 1 Calculation Grid (PA) / Value Chart (E, Perpendicular)



Values in Footcandles, Scale 1 : 170

Position of surface in external scene:
 Marked point: (-39.000 ft, -18.000 ft, 0.000 ft)



Grid: 13 x 5 Points

E_{av} [fc]	E_{min} [fc]	E_{max} [fc]	u0	E_{min} / E_{max}
34	28	37	0.84	0.76

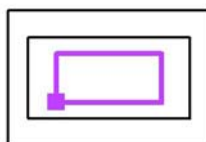


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Exterior Scene 1 / Tennis 1 Calculation Grid (PA) / Table (E, Perpendicular)



Position of surface in external scene:
Marked point: (-39.000 ft, -18.000 ft, 0.000 ft)



32.400	29	33	35	<u>37</u>	<u>37</u>	<u>37</u>	36	34	34	34
25.200	<u>28</u>	31	32	34	36	<u>37</u>	<u>37</u>	35	34	33
18.000	<u>28</u>	31	31	33	35	36	<u>37</u>	36	35	33
10.800	29	32	32	33	34	35	<u>37</u>	<u>37</u>	36	34
3.600	30	34	34	34	34	34	36	<u>37</u>	<u>37</u>	<u>37</u>
ft	3.000	9.000	15.000	21.000	27.000	33.000	39.000	45.000	51.000	57.000

Attention: The coordinates refer to the image above. Values in Footcandles.

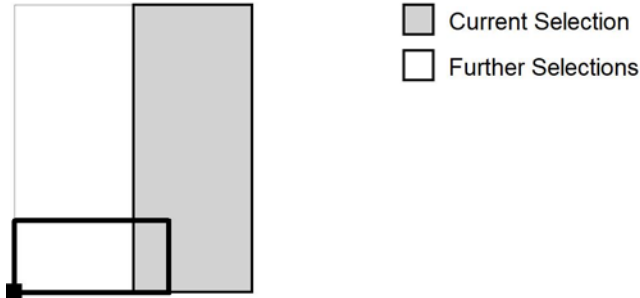
Grid: 13 x 5 Points

E_{av} [fc]	E_{min} [fc]	E_{max} [fc]	u0	E_{min} / E_{max}
34	28	37	0.84	0.76

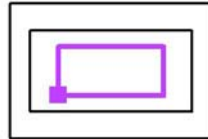


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Exterior Scene 1 / Tennis 1 Calculation Grid (PA) / Table (E, Perpendicular)



Position of surface in external scene:
Marked point: (-39.000 ft, -18.000 ft,
0.000 ft)



32.400	34	34	30
25.200	32	32	29
18.000	31	31	<u>28</u>
10.800	32	31	<u>28</u>
3.600	35	33	29
ft	63.000	69.000	75.000

Attention: The coordinates refer to the image above. Values in Footcandles.

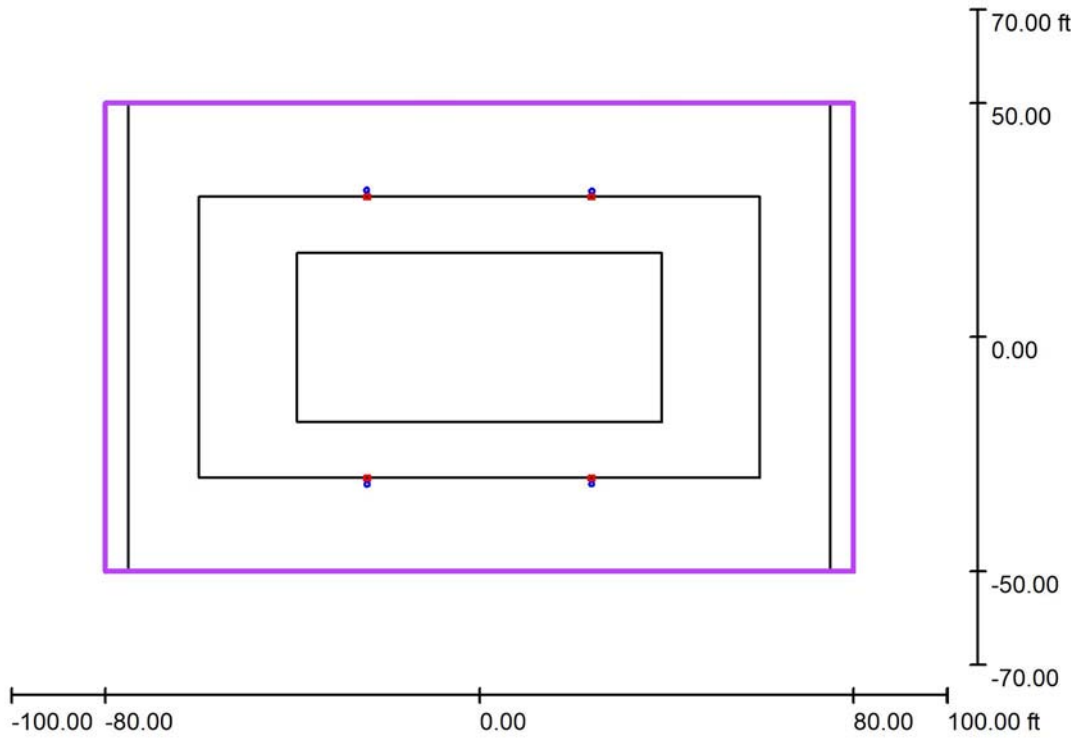
Grid: 13 x 5 Points

E_{av} [fc]	E_{min} [fc]	E_{max} [fc]	u0	E_{min} / E_{max}
34	28	37	0.84	0.76



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Exterior Scene 1 / 20FT / Summary



Scale 1 : 493

Position: (0.000 ft, 0.000 ft, 0.000 ft)
 Size: (160.000 ft, 100.000 ft)
 Rotation: (0.0°, 0.0°, 0.0°)
 Type: User defined, Quantity Points: 52

Results overview

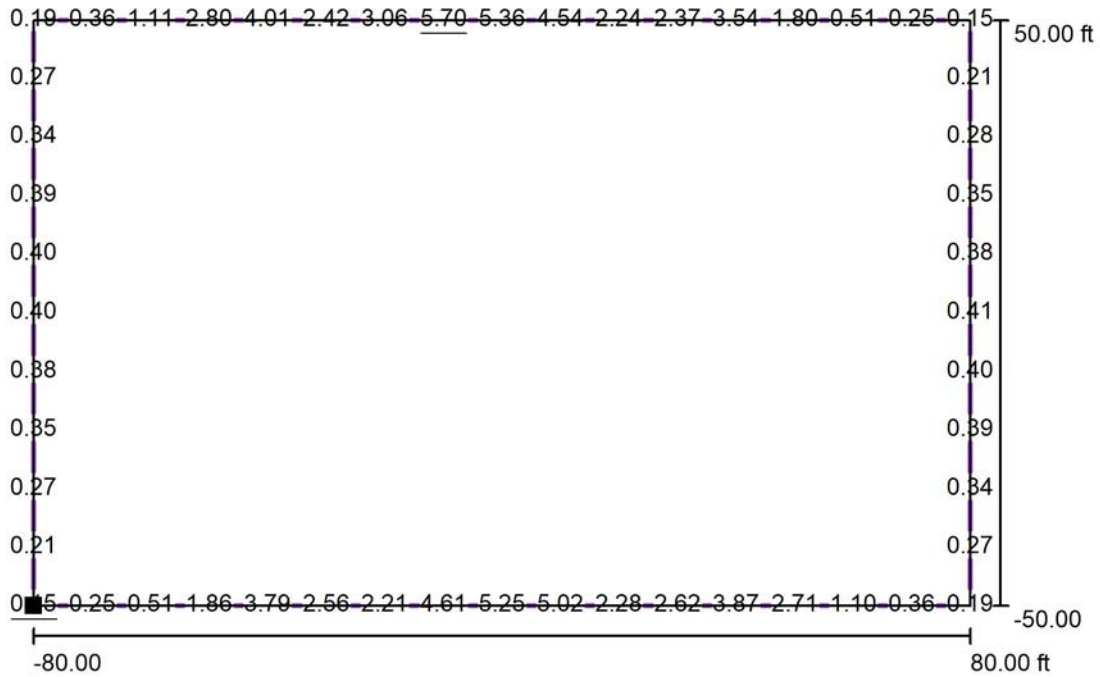
No.	Type	E_{av} [fc]	E_{min} [fc]	E_{max} [fc]	u0	E_{min} / E_{max}	$E_{h\ m} / E_m$	H [ft]	Camera
1	perpendicular	1.65	0.15	5.70	0.09	0.03	/	0.000	/

$E_{h\ m} / E_m$ = Relationship between middle horizontal and vertical illuminance, H = Measuring Height



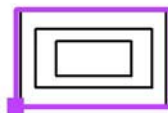
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Exterior Scene 1 / 20FT / Value Chart (E, Perpendicular)



Values in Footcandles, Scale 1 : 394

Position of surface in external scene:
Marked point: (-80.000 ft, -50.000 ft, 0.000 ft)



Grid: 52 Points

E_{av} [fc]
1.65

E_{min} [fc]
0.15

E_{max} [fc]
5.70

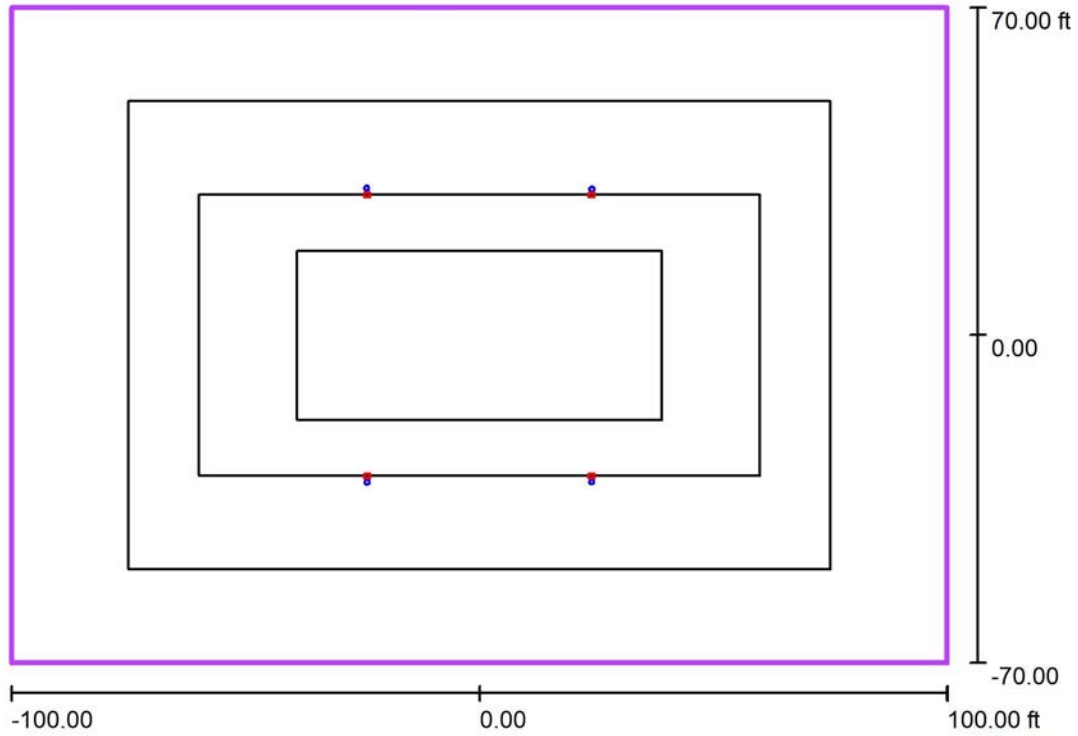
u_0
0.09

E_{min} / E_{max}
0.03



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Exterior Scene 1 / 40FT / Summary



Scale 1 : 493

Position: (0.000 ft, 0.000 ft, 0.000 ft)
 Size: (200.000 ft, 140.000 ft)
 Rotation: (0.0°, 0.0°, 0.0°)
 Type: User defined, Quantity Points: 52

Results overview

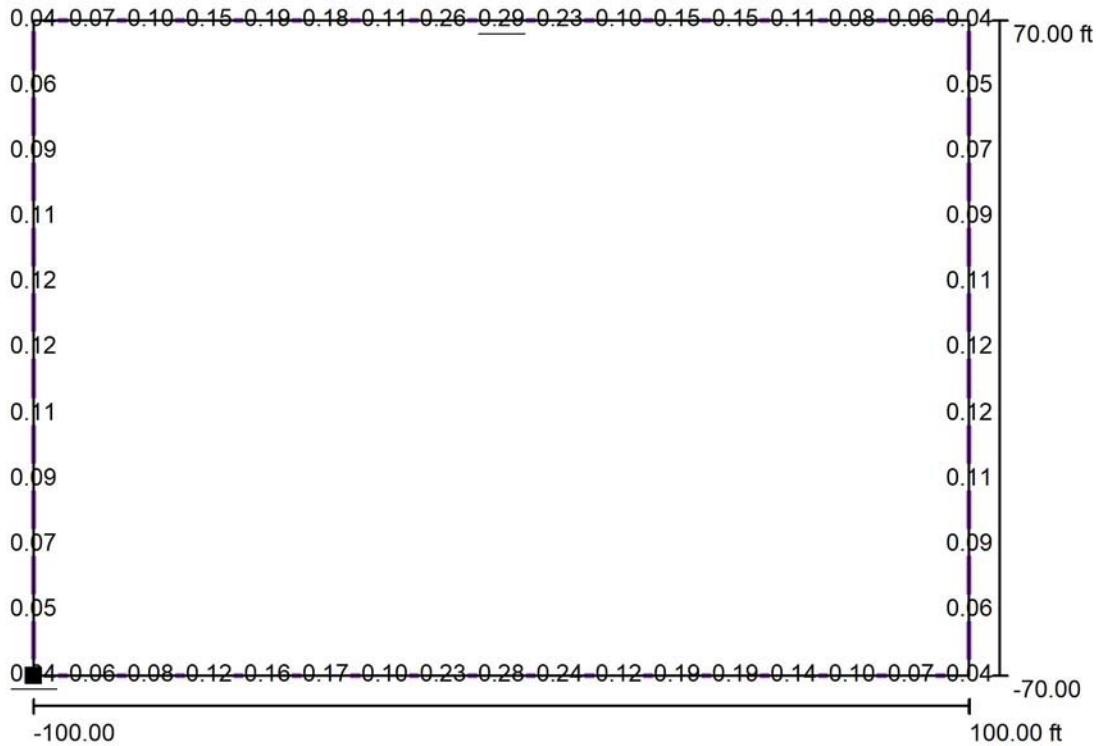
No.	Type	E_{av} [fc]	E_{min} [fc]	E_{max} [fc]	u0	E_{min} / E_{max}	$E_{h\ m} / E_m$	H [ft]	Camera
1	perpendicular	0.12	0.04	0.29	0.32	0.13	/	0.000	/

$E_{h\ m} / E_m$ = Relationship between middle horizontal and vertical illuminance, H = Measuring Height



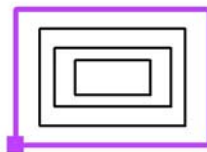
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Exterior Scene 1 / 40FT / Value Chart (E, Perpendicular)



Values in Footcandles, Scale 1 : 493

Position of surface in external scene:
 Marked point: (-100.000 ft, -70.000 ft, 0.000 ft)



Grid: 52 Points

E_{av} [fc]	E_{min} [fc]	E_{max} [fc]	u_0	E_{min} / E_{max}
0.12	0.04	0.29	0.32	0.13