

SoftForm Lighting Fabric Efficacy Evaluation

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Methodology: SoftForm Lighting series type SFR22 9/16 ___ HO 40 120. Keeping the luminaire in a fixed location, five fixed photocells were positioned 3.5 feet from the fabric face. Position number 1 is directly below the center of the luminaire, positions 2 - 5, below each of the corners.

Four tests were conducted as follows:

1. Baseline without fabric
2. Plain white (HTW) fabric
3. Printed type SFG001
4. Printed type SFG008



Lumens	Baseline	HTW	SFG001	SFG008
Position 1	18779	10550	8375	3144
Position 2	13360	7148	5686	2228
Position 3	14805	8084	6404	2445
Position 4	13218	7058	5610	1951
Position 5	12810	6846	5400	1985
Total Lumens	72972	39686	31475	11753
% Baseline	100%	54.39%	43.13%	16.11%

Conclusion: Printing does have an impact on the system efficacy. Efficacy is proportional to the density of the ink used to render the image. Less dense (lighter) colors will enable greater efficacy. More dense (darker) colors result in less light transmission and therefore less system efficacy.