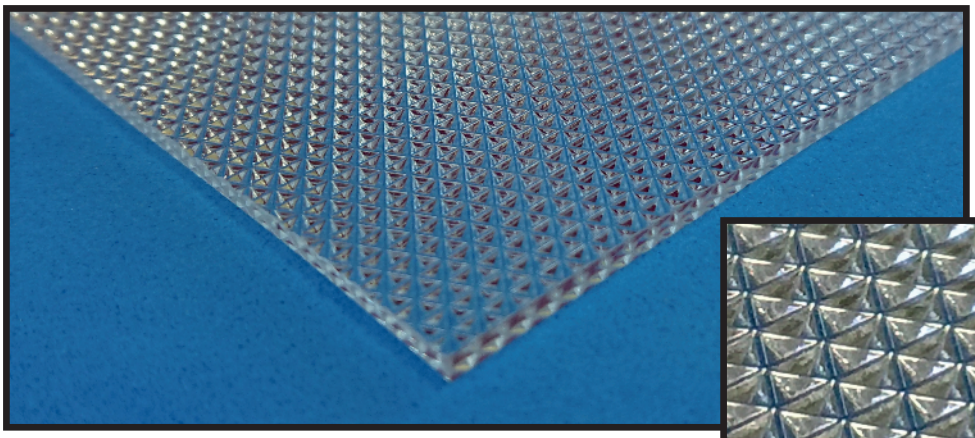
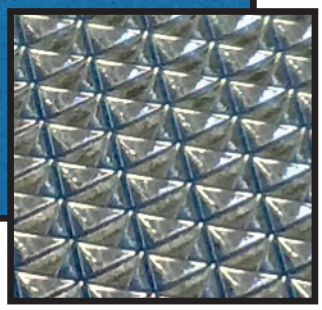
P52-De-Glaring Prism PMMA

SLP (UK) LIMITED
LIGHTING & CEILING COMPONENTS

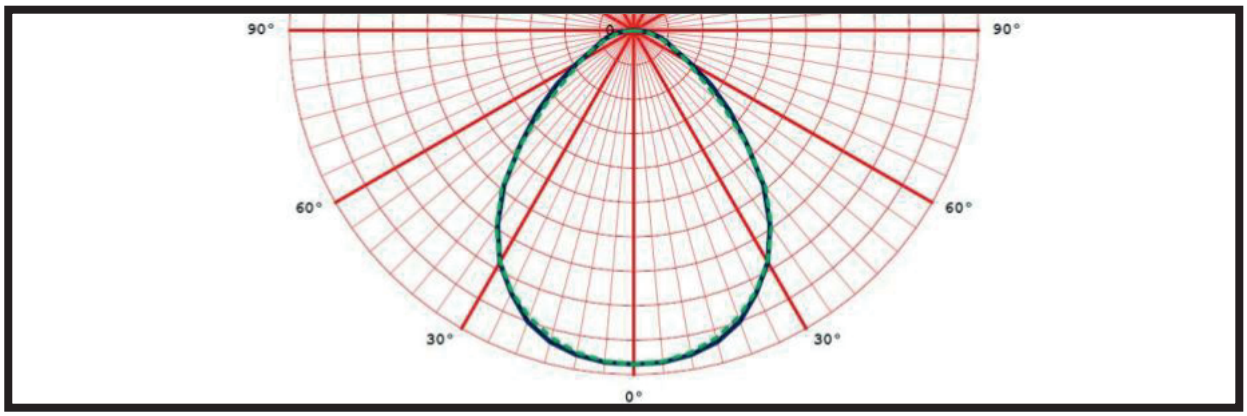




SLP (UK) LTD's New P52-DGP (De-Glaring Prism). Compliance to UGR (unified glare rating) specifications is checked by reference to the standard corrected UGR table produced to CIE 117. Performance of any luminaire in terms of UGR table will depend on a combination of the luminous output of the luminaire and its luminous area. A large luminous area will achieve low UGR values at a relatively high lumen output. A small luminous area will only achieve low UGR values at a low lumen output.

For a typical office scenario BS EN 12464 specifies 300 – 500 Lux average maintained illuminance at 0.6 Uniformity and UGR limit 19. In a typical 600 x 600 mm recessed ceiling layout a luminaire with an output of about 3500 Lumens through a luminous area of 585 mm x 585 mm in a 2.4 m x 2.4 m grid pattern will produce average illuminance of 500 Lux at UGR-19.

	P52-DGP	P52-DGP & LEDlite 82%	P52-DGP & 0.25 PET Flexilens
Material	Acrylic (PMMA)	Acrylic (PMMA) & PET	Acrylic (PMMA) & PET
Pattern	De-Glaring	De-Glaring	De-Glaring
Thickness	2 mm	2 mm & 0.175 mm	2 mm & 0.25 mm
Tolerance on Thickness	+/-10%	+/-10%	+/-10%
Light Transmission	84%	73%	70%
Colours Available	Clear	Clear & Opal Film	Clear & Opal Film
Panel Size	3050 x 1250 mm	3050 x 1250 mm 1220mm x 100 LM	3050 x 1250 mm 1220mm x 365 LM



LED Lenses

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P52-De-Glaring Prism

SLP (UK) LIMITED
LIGHTING & CEILING COMPONENTS

To Achieve UGR 19 Compliance as standard CIE 117 table shown.

Luminaires must have Lumen output / Luminous area combination in the green area of the graph below.

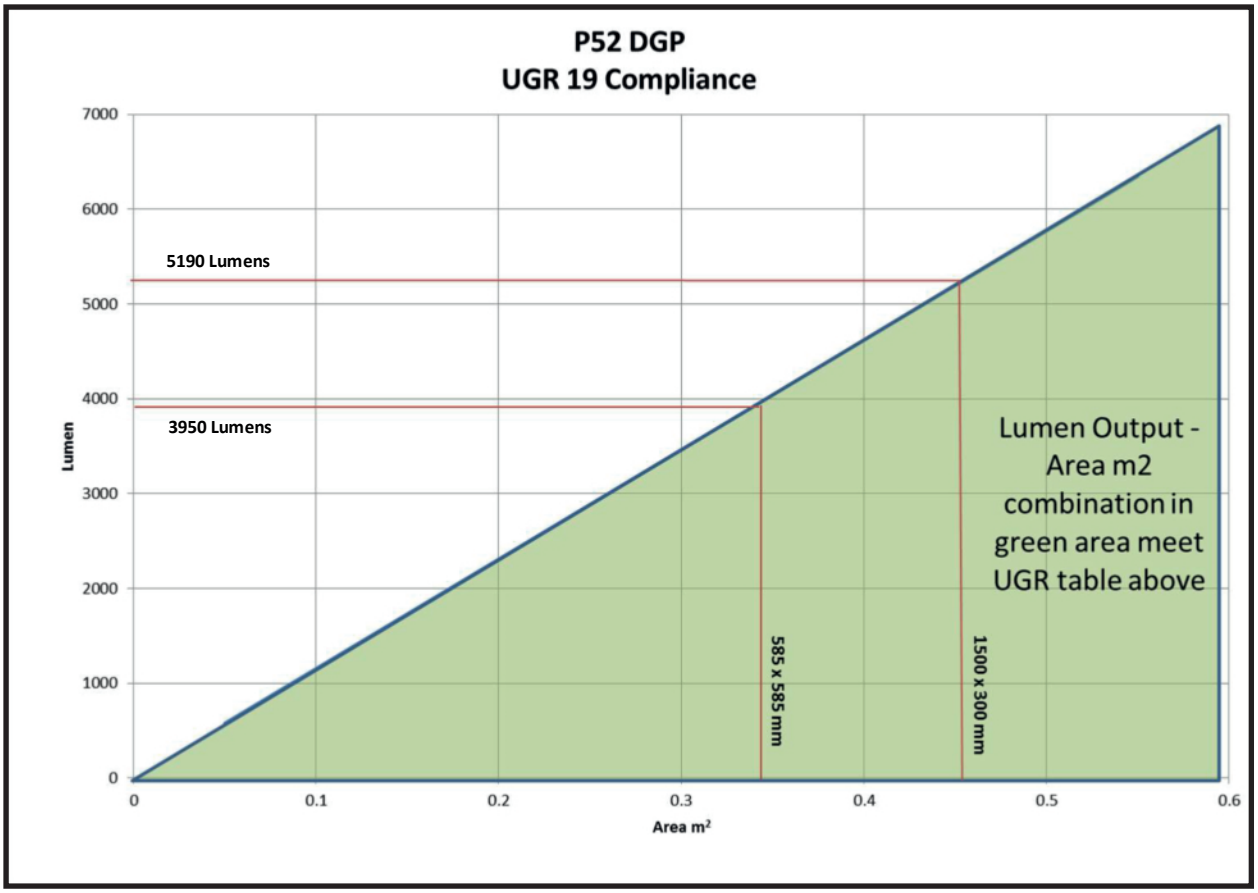
For instance with a Luminous area of 585 x 585 mm = 0.34m2 the maximum lumen output to achieve UGR table above would be 3950 Lumens.

Similary a 1500 x 300 luminaire would have a maximum lumen output of 5190 Lumens

P52-DGP Acrylic Luminaire Details

(585 x 585 mm Luminous area, 3950 Lumen Output)

Room Dimension X/Y		Viewed Crosswise 0°					Viewed Endwise 90°				
2H	2H	15.2	16.6	15.5	16.9	17.3	15.1	16.5	15.4	16.9	17.2
	3H	16.0	17.3	16.4	17.6	18.0	15.9	17.2	16.3	17.6	17.9
	4H	16.4	17.7	16.8	18.0	18.4	16.3	17.5	16.7	17.9	18.2
	6H	16.9	18.0	17.3	18.4	18.8	16.7	17.8	17.1	18.2	18.6
	8H	17.0	18.1	17.4	18.5	18.9	16.8	17.9	17.2	18.2	18.6
	12H	17.2	18.2	17.6	18.6	19.0	16.9	17.9	17.3	18.3	18.7
4H	2H	15.5	16.7	15.9	17.1	17.5	15.4	16.7	15.8	17.0	17.4
	3H	16.5	17.6	16.9	18.0	18.4	16.5	17.5	16.9	17.9	18.3
	4H	17.2	18.1	17.6	18.5	18.9	17.0	18.0	17.5	18.4	18.8
	6H	17.7	18.5	18.2	19.0	19.4	17.5	18.3	18.0	18.8	19.2
	8H	17.9	18.7	18.4	19.1	19.6	17.8	18.5	18.2	19.0	19.4
	12H	18.2	18.9	18.6	19.3	19.8	18.0	18.7	18.4	19.1	19.6
8H	4H	17.3	18.1	17.8	18.5	19.0	17.2	18.0	17.7	18.5	18.9
	6H	18.0	18.7	18.5	19.1	19.6	17.9	18.6	18.4	19.0	19.5
	8H	18.4	19.0	18.9	19.5	20.0	18.3	18.9	18.8	19.4	19.9
	12H	18.7	19.2	19.2	19.7	20.2	18.6	19.1	19.1	19.6	20.1
12H	4H	17.4	18.1	17.9	18.5	19.0	17.3	18.0	18.0	18.4	18.9
	6H	18.1	18.7	18.7	19.2	19.7	18.0	18.6	18.6	19.1	19.6
	8H	18.5	19.0	19.0	19.5	20.0	18.4	18.9	18.9	19.4	19.9



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P52-De-Glaring Prism

SLP (UK) LIMITED
LIGHTING & CEILING COMPONENTS

To Achieve UGR 19 Compliance as standard CIE 117 table shown.

Luminaires must have Lumen output / Luminous area combination in the green area of the graph below.

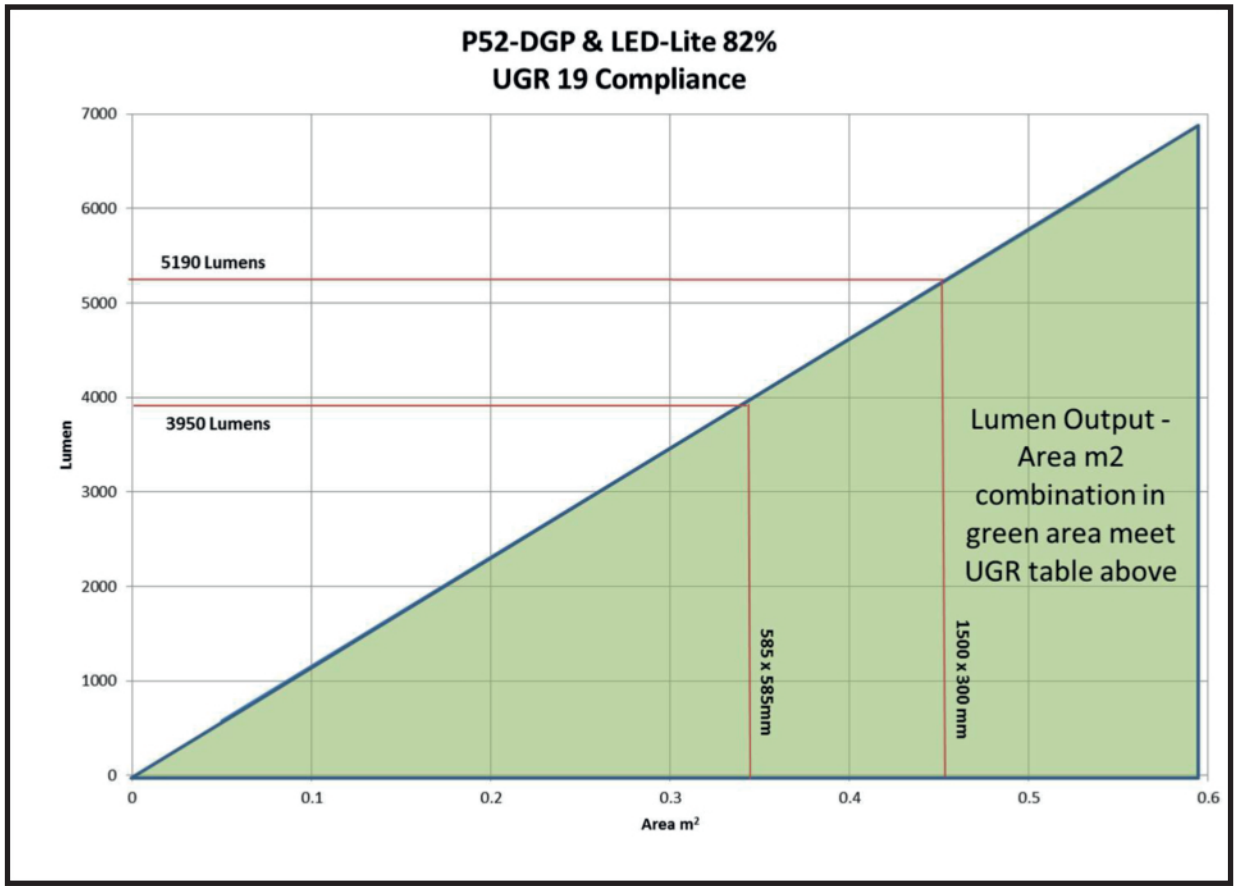
For instance with a Luminous area of 585 x 585 mm = 0.34m2 the maximum lumen output to achieve UGR table above would be 3950 Lumens.

Similary a 1500 x 300 luminaire would have a maximum lumen output of 5190 Lumens

P52-DGP Acrylic & LED-Lite 82%Luminaire Details

(585 x 585 mm Luminous area, 3950 Lumen Output)

Room Dimension X/Y		Viewed Crosswise 0°					Viewed Endwise 90°				
2H	2H	15.3	16.8	15.7	17.1	17.4	15.1	16.6	15.5	16.9	17.2
	3H	16.2	17.5	16.5	17.8	18.2	16.0	17.3	16.3	17.6	18.0
	4H	16.6	17.9	17.0	18.2	18.6	16.4	17.6	16.8	18.0	18.3
	6H	17.1	18.2	17.5	18.6	19.0	16.8	17.9	17.2	18.3	18.7
	8H	17.2	18.3	17.6	18.7	19.1	16.9	18.0	17.3	18.4	18.8
	12H	17.4	18.4	17.8	18.8	19.2	17.0	18.1	17.4	18.4	18.9
4H	2H	15.6	16.9	16.0	17.2	17.6	15.5	16.7	15.9	17.1	17.4
	3H	16.7	17.8	17.1	18.2	18.6	16.6	17.6	17.0	18.0	18.4
	4H	17.4	18.3	17.8	18.7	19.1	17.2	18.1	17.6	18.5	18.9
	6H	17.9	18.7	18.4	19.2	19.6	17.7	18.5	18.1	18.9	19.4
	8H	18.1	18.9	18.6	19.3	19.8	17.9	18.7	18.4	19.1	19.6
	12H	18.4	19.1	18.8	19.5	20.0	18.1	18.8	18.6	19.3	19.8
8H	4H	17.5	18.3	18.0	18.8	19.2	17.4	18.1	17.9	18.6	19.1
	6H	18.2	18.9	18.7	19.3	19.8	18.1	18.7	18.6	19.2	19.7
	8H	18.6	19.2	19.1	19.7	20.2	18.5	19.0	19.0	19.5	20.0
	12H	18.9	19.4	19.4	19.9	20.4	18.8	19.2	19.3	19.7	20.3
12H	4H	17.6	18.3	18.1	18.7	19.2	17.4	18.1	17.9	18.6	19.1
	6H	18.3	18.9	18.9	19.4	19.9	18.2	18.8	18.7	19.3	19.7
	8H	18.7	19.2	19.3	19.7	20.2	18.6	19.1	19.1	19.6	20.1



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To Achieve UGR 19 Compliance as standard CIE 117 table shown.

Luminaires must have Lumen output / Luminous area combination in the green area of the graph below.

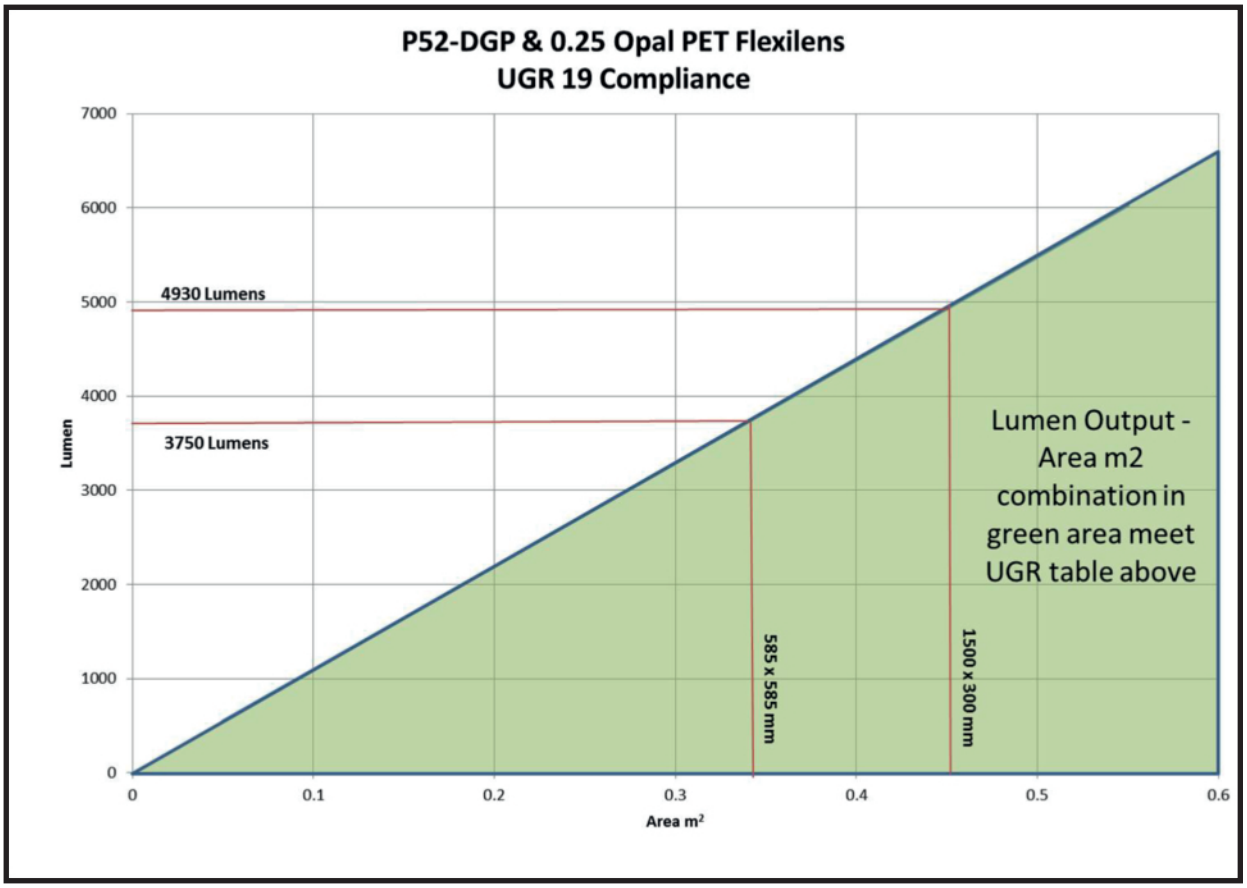
For instance with a Luminous area of 585 x 585 mm = 0.34m2 the maximum lumen output to achieve UGR table above would be 3750 Lumens.

Similary a 1500 x 300 luminaire would have a maximum lumen output of 4930 Lumens

P52-DGP Acrylic & 0.25 Opal PET Flexilens Luminaire Details

(585 x 585 mm Luminous area, 3750 Lumen Output)

Room Dimension X/Y		Viewed Crosswise 0°					Viewed Endwise 90°				
2H	2H	15.3	16.8	15.7	17.1	17.4	15.1	16.6	15.4	16.9	17.2
	3H	16.2	17.5	16.6	17.9	18.2	15.9	17.3	16.3	17.6	18.0
	4H	16.7	17.9	17.1	18.3	18.6	16.4	17.6	16.7	18.0	18.3
	6H	17.1	18.3	17.5	18.6	19.0	16.7	17.9	17.1	18.3	18.7
	8H	17.2	18.4	17.7	18.7	19.1	16.9	18.0	17.3	18.4	18.8
	12H	17.4	18.5	17.8	18.8	19.2	17.0	18.1	17.4	18.4	18.9
4H	2H	15.7	16.9	16.1	17.3	17.7	15.5	16.7	15.9	17.1	17.4
	3H	16.7	17.8	17.2	18.2	18.6	16.6	17.6	17.0	18.0	18.4
	4H	17.4	18.3	17.8	18.7	19.2	17.2	18.1	17.6	18.5	19.0
	6H	17.9	18.7	18.4	19.2	19.6	17.7	18.5	18.1	18.9	19.4
	8H	18.1	18.9	18.6	19.4	19.8	17.9	18.7	18.4	19.1	19.6
	12H	18.4	19.1	18.9	19.5	20.0	18.1	18.8	18.6	19.3	19.8
8H	4H	17.6	18.3	18.0	18.8	19.2	17.4	18.2	17.8	18.6	19.1
	6H	18.2	18.9	18.7	19.4	19.9	18.1	18.7	18.6	19.2	19.7
	8H	18.6	19.2	19.1	19.7	20.2	18.5	19.0	19.0	19.5	20.0
	12H	18.9	19.4	19.4	19.9	20.4	18.8	19.2	19.3	19.8	20.3
12H	4H	17.6	18.3	18.1	18.8	19.3	17.4	18.1	17.9	18.6	19.1
	6H	18.4	18.9	18.9	19.4	19.9	18.2	18.8	18.7	19.3	19.8
	8H	18.7	19.2	19.3	19.7	20.2	18.6	19.1	19.1	19.6	20.1



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