

BrightView C-series

High Performance Symmetric LED Diffusers



Advantages

- Efficiently hides LED light sources for smooth illumination.
- Enhances color mixing and uniformity across the lighting surface.
- Provides excellent depixelation and angle control for consistent output.
- Suitable for both LED and fluorescent lighting applications.

The Bright View C-Series offers high-performance symmetric diffusers designed for general-purpose LED and fluorescent lighting applications. These diffusers effectively hide light sources, enhance color mixing, and manage beam angles to deliver smooth, uniform illumination. With excellent depixelation and angle control, the C-Series is a versatile solution for achieving consistent light distribution across a wide range of fixtures.

Product data

Material	PET PET-UV upon request
Standard dimensions	1800x600mm
Thickness	Single sided diffuser 0,21mm +/-0,05mm double sided diffuser 0,23mm +/-0,05mm
Temperature range	-34°C - 80°C

*Datasheet is made on behalf of producer's information. Ingemann Components A/S cannot guarantee the authenticity of the data.

CONTACT US

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A LEDiL Group company

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C-HE single sided diffusers: industry standard for efficiency

Product number	Distance to achieve complete LED hiding (Distance between lamps: working distance to diffuser)	Efficiency in typical LED luminaire
C – HE05		93 - 96%
C – HE10		93 - 96%
C – HE15	1:4	93 - 96%
C – HE20	1:3.5	92 - 96%
C – HE30	1:2.5	91 - 95%
C – HE40	1:2.3	90 - 94%
C – HE55	1:2	89 - 93%
C – HE80	1:1.5	88 - 92%

Higher
efficiency ↑
↓ More
hiding

Diffusers near the top of this table have high efficiency and are used to soften LED images and smooth light distributions. Diffusers near the bottom of the table are used when strong and uniform hiding of LED sources is desired.

C-HH double sided diffusers: industry standard for efficiency

Product number	Distance to achieve complete LED hiding	Efficiency in typical LED luminaire
C – HH20	1:2.5	93 - 97%
C – HH30	1:2.3	92 - 96%
C – HH40	1:2	91 - 95%
C – HH55	1:1.5	90 - 94%
C – HH80	1:1	89 - 93%

The C-HH Series diffusers feature a special double-sided coating that enhances LED hiding and typically offers greater efficiency than their C-HE counterparts listed above. As with the previous series, higher numbers in the part number indicate increased diffusion and stronger LED hiding.

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Diffusion angles

Source-Hiding Mode:

Used to conceal LED sources and create smooth light output.

The microstructure faces outward to maximize diffusion and visual comfort.

Angle-Spreading Mode:

Used to widen the light beam and improve uniformity.

The microstructure faces inward for spot/flood angles controlling.

		C-HE05		C-HE10		C-HE15		C-HE20		C-HE30		C-HE40		C-HE55		C-HE80	
Source angle	3	5.7	5.6	9.6	9.8	14.2	15.0	18.3	20.2	25	30	30	41	32	58	33	72
	5	7.3	7.3	10.8	11.1	15.0	16.0	18.9	20.9	25	30	30	41	33	59	34	73
	10	11.6	11.7	14.1	14.5	17.4	18.5	21	23	26	32	31	43	35	62	36	76
	15	16.0	16.1	17.7	18.2	20	21	23	25	28	35	32	46	36	65	38	80
	20	21	21	22	22	24	25	26	29	30	37	33	48	38	69	39	83
	25	25	25	26	27	27	29	29	32	32	40	35	52	39	73	41	88
	30	30	30	31	31	32	33	33	36	35	44	37	55	40	77	42	92
	35	35	35	35	36	36	37	37	40	38	47	40	59	42	81	43	96
FWHM	40	40	40	40	40	40	42	41	44	41	51	42	63	44	86	45	101
	45	45	45	45	45	45	46	45	48	45	55	46	67	47	91	47	105
	50	50	50	50	50	50	51	50	53	49	59	49	72	49	95	49	109
	60	60	60	60	60	59	60	59	62	57	68	56	81	55	104	54	117
	70	70	69	69	69	68	69	67	69	64	75	62	88	59	110	58	122
	80	79	78	78	77	76	77	75	77	71	82	68	94	64	115	62	125
	90	88	87	86	86	85	85	82	85	78	88	74	99	69	118	67	126
	100	97	96	95	94	93	92	90	92	85	95	81	105	74	121	72	127
	110	106	105	103	102	101	100	98	99	93	102	87	110	80	123	77	127
	120	115	114	112	110	109	108	106	106	100	108	94	115	86	124	82	127

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