

Edge-Lit Panel G4 — Recessed luminaire



Description:

Ecopoint's fourth generation Edge-Lit Panel adopts the latest LED and driver developments to deliver a highly capable and flexible product family which meets a wide range of end-user requirements. Minimising total-cost-of-ownership was the key development focus; maximising luminaire efficacy, extending component lifetimes, and simplifying both installation and maintenance. Lighting designers can leverage the strong performance and high maintenance factors, while asset managers will appreciate the reduced energy costs, low maintenance demand, and simple logistics.

Mounting:

Recessed (suspended-grid ceilings) as standard. Plaster recess, surface-mounting and suspension kits available as accessories

Standard Inclusions:

Luminaire, driver with pre-wired flex and plug, 2 x restraint cables (suitable for NZS 4219 purposes)

Options/Accessories:

Plaster recess kit, Surface-mount kit, Suspension kit, Dimmable drivers

GENERAL LUMINAIRE SPECIFICATIONS:

Flux Maintenance	L90 @ 50,000 hrs, L80 @ 100,000 hrs (25° C)
Colour Specifications	840 / SOLUS 4000K / Others possible on request
Colour Consistency	3 SDCM
Construction	Extruded alum. frame, PMMA micro-prism optics
Luminaire Colour Options	Matte White
Operating Conditions	-10° to 40° C
Protection Rating/s	IP40 (room-side) + IP20 (cavity-side), IK06
Insulation Rating	IC-4 (driver above insulation)

DRIVER SPECIFICATIONS:

Standard Driver Type	Non-dim, DIP-switch power select (two variants)
Electrical Supply	200-240 V AC / 47-63 Hz
Power Specifications	PF > 0.94, THD(I) < 10%
Flicker (TLM/TLA)	< 0.2% mod. @ 100Hz / P _s LM 0.015 / SVM 0.005
Electrical Protection	OCP, SCP, 2 KV Surge (L-N)
Environmental Protection	IP20
Rated Life	100,000 hours (case temp < 65° C)
Dimming Options	Triac, DALI, Casambi (specifications may vary)

STANDARD MODELS

Type	Dimensions	CCT	Colour Rendering	Optic	Power	Flux*	Flux Maintenance**
Edge-Lit Panel G4 600x600 840	595 x 595 x 11 mm 3.1 kg	4000K	R _a ≥ 80, R ₉ ≥ 10 R _f ≥ 80, R _g ≥ 95	Micro-prismatic, UGR < 19***	22— 39 W	2,920— 5,070 lm	L90 @ 54,000 hrs L80 > 100,000 hrs
Edge-Lit Panel G4 1200x300 840	1195 x 295 x 11 mm 3.2 kg	4000K	R _a ≥ 80, R ₉ ≥ 10 R _f ≥ 80, R _g ≥ 95	Micro-prismatic, UGR < 19***	22— 39 W	2,710— 4,750 lm	L90 @ 54,000 hrs L80 > 100,000 hrs
Edge-Lit Panel G4 1200x150 840	1195 x 145 x 11 mm ## kg	4000K	R _a ≥ 80, R ₉ ≥ 10 R _f ≥ 80, R _g ≥ 95	Micro-prismatic, UGR < 19***	20— 28 W	1,920— 2,620 lm	L90 @ 54,000 hrs L80 > 100,000 hrs

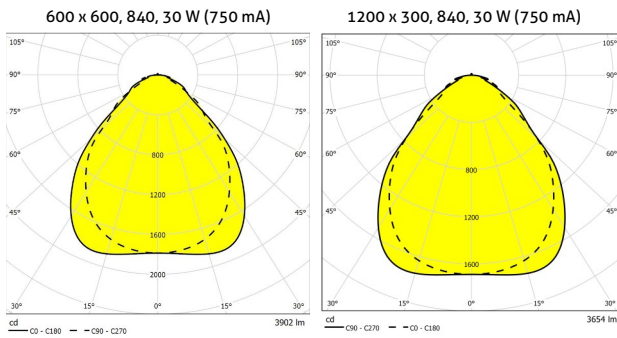
Notes:
 * Multiple flux/power combinations possible via DIP-switch selection on driver. Consult reference table overleaf for full set of standard combinations.
 ** Flux maintenance per TM-21, t_a 25° C (10,000 hrs LM-80 data; predictions > 60,000 hrs are outside of TM-21 reporting guidelines and indicative only). Data reflects B50 'median useful life'.
 *** UGR values determined by the tabular method for 4H x 8H room with 70%/50%/20% reflectances. Request IES files for an accurate glare evaluation.

SOLUS 'FULL SPECTRUM' MODELS

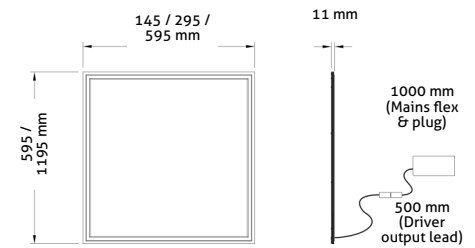
Type	Dimensions	CCT	Colour Rendering	Optic	Power	Flux*	Flux Maintenance**
Edge-Lit Panel G4 600x600 S40	595 x 595 x 11 mm 3.1 kg	4000K	R _a ≥ 97, R ₉ ≥ 95 R _f ≥ 95, R _g ≥ 100	Micro-prismatic, UGR < 19***	22— 39 W	2,230— 3,940 lm	L90 @ 30,000 hrs L80 @ 70,000 hrs
Edge-Lit Panel G4 1200x300 S40	1195 x 295 x 11 mm 3.2 kg	4000K	R _a ≥ 97, R ₉ ≥ 95 R _f ≥ 95, R _g ≥ 100	Micro-prismatic, UGR < 19***	22— 39 W	2,140— 3,800 lm	L90 @ 30,000 hrs L80 @ 70,000 hrs
Edge-Lit Panel G4 1200x150 S40	1195 x 145 x 11 mm ## kg	4000K	R _a ≥ 97, R ₉ ≥ 95 R _f ≥ 95, R _g ≥ 100	Micro-prismatic, UGR < 19***	20— 28 W	1,900— 2,580 lm	L90 @ 30,000 hrs L80 @ 70,000 hrs

Notes:
 * Multiple flux/power combinations possible via DIP-switch selection on driver. Consult reference table overleaf for full set of standard combinations.
 ** Flux maintenance per TM-21, t_a 25° C (6,000 hrs LM-80 data; predictions > 36,000 hrs are outside of TM-21 reporting guidelines and indicative only). Data reflects B50 'median useful life'.
 *** UGR values determined by the tabular method for 4H x 8H room with 70%/50%/20% reflectances. Request IES files for an accurate glare evaluation.

DISTRIBUTION:



DIMENSIONS:



PHOTOMETRIC & COLOUR PERFORMANCE SUMMARIES:

Standard Ra>80 4000K	Driver Model	Current Setting (mA)	Power (W)	Flux (lm)
Edge-Lit Panel G4 600x600 840	500-1000 mA	500	21	2,700
		550	22	2,920
		600	23	3,090
		650	25	3,350
		700	27	3,590
		750	30	3,910
		800	31	4,130
		850	33	4,300
		900	35	4,560
		950	37	4,770
1000	39	5,080		
Edge-Lit Panel G4 1200x300 840	500-1000 mA	500	21	2,500
		550	22	2,710
		600	23	3,020
		650	25	3,280
		700	27	3,520
		750	30	3,650
		800	31	3,840
		850	33	4,210
		900	35	4,450
		950	37	4,650
1000	39	4,750		
Edge-Lit Panel G4 1200x150 840	550-750 mA	550	20	2,200
		600	24	2,350
		650	26	2,550
		700	28	2,750
		750	30	2,900

SOLUS Ra>97 4000K	Driver Model	Current Setting (mA)	Power (W)	Flux (lm)
Edge-Lit Panel G4 600x600 S40	500-1000 mA	500	21	2,100
		550	22	2,230
		600	23	2,400
		650	25	2,610
		700	27	2,800
		750	30	3,010
		800	31	3,200
		850	33	3,400
		900	35	3,580
		950	37	3,750
1000	39	3,940		
Edge-Lit Panel G4 1200x300 S40	500-1000 mA	500	21	2,050
		550	22	2,140
		600	23	2,340
		650	25	2,540
		700	27	2,730
		750	30	2,910
		800	31	3,110
		850	33	3,320
		900	35	3,470
		950	37	3,640
1000	39	3,800		
Edge-Lit Panel G4 1200x150 S40	550-750 mA	550	20	1,900
		600	22	2,080
		650	24	2,250
		700	26	2,420
		750	28	2,580

Standard 840	Metric/s	Typical Values
	Nominal CCT	4000K
	CIE 13.3-1995	R _a 82 / R _g 10
	IES-TM30-18	R _f 84 / R _g 97 / -12% < R _{cs} < 8%
	COI (AS/NZS 1680.2.5)	-
	Melanopic Ratio (IWBI)	0.668

SOLUS S40	Metric/s	Typical Values
	Nominal CCT	4000K
	CIE 13.3-1995	R _a 98 / R _g 98
	IES-TM30-18	R _f 95 / R _g 101 / -3% < R _{cs} < 8%
	COI (AS/NZS 1680.2.5)	0.3
	Melanopic Ratio (IWBI)	0.738

* Detailed colour performance specification sheets are available — request a copy if additional information is required.

LIGHT LOSS FACTOR GUIDE:

Variant	Service Life (hrs)	5,000	10,000	15,000	20,000	25,000	30,000	35,000	40,000	45,000	50,000	55,000	60,000	65,000	70,000	75,000	80,000
Standard 840	LLMF	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87	0.86	0.85	0.84
Based on...	LSF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
L80 > 100,000 hrs	LaMF _{combined}	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87	0.86	0.85	0.84
SOLUS S40	LLMF	0.99	0.97	0.96	0.94	0.93	0.91	0.90	0.89	0.87	0.86	0.84	0.83	0.81	0.80	0.79	0.77
Based on...	LSF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.99	0.97
L80 @ 70,000 hrs	LaMF _{combined}	0.99	0.97	0.96	0.94	0.93	0.91	0.90	0.89	0.87	0.86	0.84	0.83	0.81	0.80	0.78	0.75

* Refer ISO/CIE TS 22012:2019 for details of derivation and application of these standardised reference tables. Nearest relevant flux maintenance specifications are presented here — request a customised TM-21 calculation for a more accurate, project-specific, projection of LLMF based on your nominated service life.