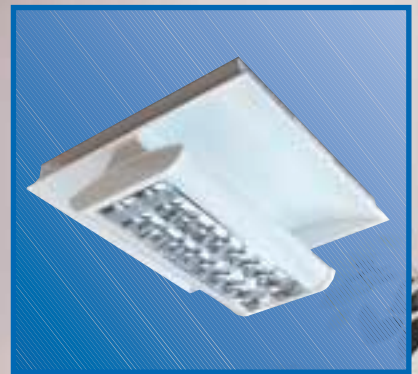


# Solution

Direct-Indirect  
LG3 2001 compliant luminaire\*



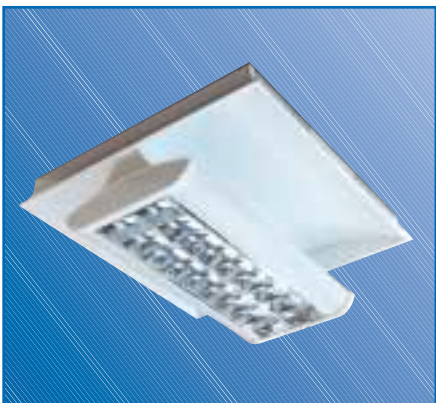
CE IP20

# Dextra

# Solution



SOLR314 MIRO 4 LG3 65° Louvre



SOLP414 MIRO 4 LG3 65° Louvre



SOLS214 MIRO 4 LG3 65° Louvre  
(Available Dec 04)

- High quality aluminium die-cast end caps.
- HF, HFR, Switch Dim, DSI and E3 versions available as standard.
- Available in 600 x 600mm Lay-in and Pull-up end support versions for 15/24mm exposed tee and side mount version for 44mm spring tee.
- Wieland "plug and play" options.
- Supplied complete with lamps.

In its high efficiency 3x14w and 4x14w options, our bespoke Miro5 semi-specular variants will ensure that the society of light and lighting limits of 1500cd/m<sup>2</sup> can be maintained. In addition the Miro4 Specular option offers even further performance enabling the "Solution" to cater for 1000cd/m<sup>2</sup> as defined by BS EN12464, the current European luminance limit requirements.

With its unique construction method the "Solution" can be installed and operational within minutes. Supplied fully assembled as standard and with a range of grid system applications and fast wire options. Surface mount or suspended bi-directional versions available late 04

The result is a fitting that boasts compliance with the EU recommendations whilst providing a visual aesthetic that compliments the fittings performance.

- SOLR - Lay-in luminaire for use in 15/24mm exposed tee ceilings only.  
NB. A minimum ceiling void of 450mm is required to lift and tilt the body into the ceiling.
- SOLP - Pull-up luminaire for use in 15/24mm exposed tee or plasterboard ceilings.
- SOLT - Pull-up luminaire for use in 44mm spring tee ceilings.
- SOLS - Surface mount luminaire. (Available Dec 04)

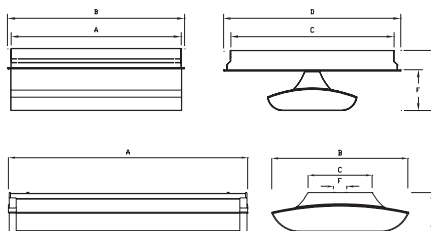
## Luminaire Details

Order Code	Nominal Size	Lamps	Dimensions (mm)						CUTOUT SIZE
			A	B	C	D	E	F	
SOLR 314/24	600 x 600	3 x 14W HE / 24W HO	573	597	570	597	200	138	-
SOLR 414/24	600 x 600	4 x 14W HE / 24W HO	573	597	570	597	200	138	-
SOLP 314/24	600 x 600	3 x 14W HE / 24W HO	573	597	570	597	200	138	580x580mm
SOLP 414/24	600 x 600	4 x 14W HE / 24W HO	573	597	570	597	200	138	580x580mm
SOLT 314/24	600 x 600	3 x 14W HE / 24W HO	573	597	570	597	200	138	-
SOLT 414/24	600 x 600	4 x 14W HE / 24W HO	573	597	570	597	200	138	-
SOLS 214/24*	600 x 350	2 x 14W HE / 24W HO	608	348	163	98	-	-	-
SOLS 228/54	1200 x 350	2 x 28W HE / 54W HO	1208	348	163	98	-	-	-
SOLS 235/49/80	1500 x 350	2 x 35W HE / 49/80W HO	1508	348	163	98	-	-	-

### Control Gear Variants - Suffix:

HFR	High Frequency Dimming (Analogue 1-10V)
SD(E)	Digital Dimming Switch Dim (ECO)
DSI(E)	Digital Dimming DSI (ECO)
DSI(X)	Digital Addressable Lighting Interface (DALI)
E3	3 Hour Maintained Emergency Pack (Integral)
ST3	Self Test

\* Emergency version not available



### louvres - Suffix:

C2	MIRO 4 LG3 2001 65° (LG3 1996 CAT 2) Louvre (Specular)	4PM	Panel mount 4 pole GST 18
SSC2	MIRO 5 LG3 2001 65° (LG3 1996 CAT 2) Louvre (Semi Specular)		

# Specification Facts & Questions

**Q.** Can all ratios of illuminance be satisfied?  
Ceiling 30% Walls 50% of the 100% Working plane designed illuminance?

**A.** *With a ceiling height of 2.5m and reflectances of 70:50:20 YES, however specific room size, shape and luminaire location is critical.*

**Q.** Is the luminance limit below 1500 cd/m<sup>2</sup> 65° for LG3 2001?

**A.** *YES, when using Miro 5 louvre material (semi specular) and 14w HE T5 (3 or 4 lamp versions).*

**Q.** Is the luminance limit below 1000cd/m<sup>2</sup> 65° for BSEN 12464-1 :2002

**A.** *YES, when using Miro 4 louvre material (specular) and 14w HE T5 lamps (3 or 4 lamp versions).*

**Q.** Is the Solution ECA approved.

**A.** *YES, however please check with the Inland Revenue as to whether a project qualifies for a capital allowance as it is dependent on the application in question. The manufacturer does not determine acceptance as the Inland Revenue administer all claims.*

**Q.** Does the Solution comply with the 40 luminaire lms/ circuit watt for the building Regulation L2.

**A.** *YES, 3x14w MIRO4 - 45 Lm/W      4x14w MIRO4 - 46 Lm/W  
3x14w MIRO5 - 45 Lm/W      4x14w MIRO5 - 46 Lm/W  
3x24w MIRO4 - 42 Lm/W      4x24w MIRO4 - 49 Lm/W  
3x24w MIRO5 - 42 Lm/W      4x24w MIRO5 - 49 Lm/W*

**Q.** Is a 'Speed wire' version available?

**A.** *YES, via optional extra panel mount and 'T' piece.*

**Q.** What dimming is available?

**A.** *Switch Dimming via push to make switch  
DSI Controlled dimming via interface/sensors when specified  
HFR (High Frequency Regulated 1-10v)  
DALI Digital Addressable Lighting Interface*

**Q.** Does the Solution provide superior level of uniformity

**A.** *YES, (when compared to conventional schemes)*

**Q.** What general spacings are required to achieve a general illuminance level acceptable in most small office environments.

Using :

Maintenance factor of 0.8

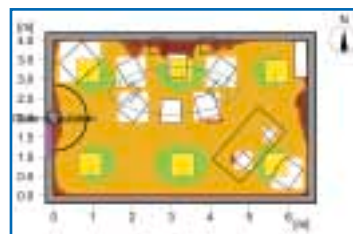
Reflectances of : 70:50:20

Ceiling height of 2.5m

Working plane of 0.75m



Spacing 2.4m x 2.4m



Working plane 422 LUX  
Wall: 224 LUX 53%  
Ceiling :125 LUX 30%



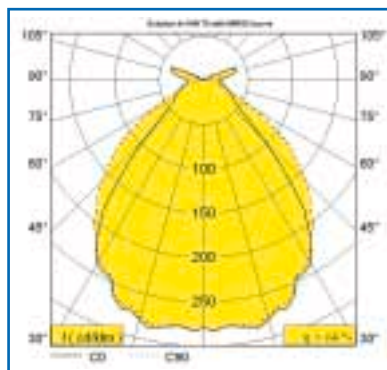
\* Spacing and lighting levels may differ according to specification, ceiling heights or room dimensions. These must always be checked before confirmation of compliance or placing an order.

**Q.** What ceiling types will the Solution be capable of fitting into?

**A.** *15/24mm Exposed 'T'  
44mm Spring Tee and plasterboard ceilings.  
N.B. Please specify correct luminaire for ceiling type.*



SOLR414 MIRO 5 LG3 65° Louvre



utilization factors / UFR		Ceiling reflectance (%)									
h	Working plane	30		50		70		90		90	
		30	50	30	50	30	50	30	50	30	50
0.5	0.6	41	32	27	21	30	25	20	23	23	23
0.8	0.8	33	26	23	17	26	20	16	19	19	19
1.0	1.0	27	21	17	13	20	15	12	15	15	15
1.25	1.25	22	17	13	10	16	12	9	12	12	12
1.5	1.5	18	14	10	7	13	10	7	10	10	10
2.0	2.0	14	10	7	5	10	7	5	8	8	8
2.5	2.5	11	8	5	4	8	6	4	6	6	6
3.0	3.0	9	6	4	3	6	4	3	5	5	5
4.0	4.0	7	5	3	2	5	3	2	4	4	4
5.0	5.0	6	4	2	1	4	2	1	3	3	3