SPECIAL Custom Made TCS429 **PROJECT LUMINAIRES**

Non Stock

Special versions of standard stock luminaire types can be supplied to special order. Typical deviations from standard include vari-

ations in:-Operating voltage e.g. 220V Operating frequency e.g. 60Hz Light regulation (Dimmable) Control Gear Special fixing arrangements Electrical connections (e.g. large terminal blocks, flying leads etc.).

A guide to MINIMUM order quantities follows, but availability depends on technical feasibility and production economics. Enquiries to your local Lighting Sales Desk

Description	M.O.Q.
Streamlite	500
Feature	250
Featureline Trunking	100
Featureline Luminaires	200
Finesse	250
Polyprism	250
Planner	100
TCS429 Mirror Luminaires	100
Modifications to all Philips	standard
luminaires are possible subject to conditions. Please enquire.	the above

Custom Made

A number of High Output optical systems have been designed to fit into custom made metal work to suit a particular installation. Types available are: -

Description	M.O.Q.
TZR: High Intensity Low Brightness	100 100
TCS: Batwing Mirror System CRYSTAL LOUVRE: Air Handling Prismatic Louvres	100

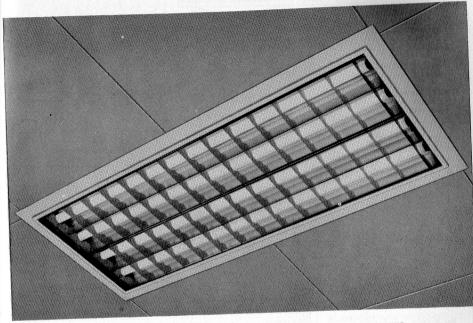
Special Design

Individual designs to Customer's own needs and specifications can be undertaken subject to M.O.Q. of 200.

CI/SfI	³ (63.1)	
UDC	696 6:628.972	

TCS 429

Custom-made product – built to special order



Recessed fluorescent luminaires with WideSpread TCS 429 mirror reflectors and, when required, integral facilities for airhandling.

An advanced range of recessed luminaires which combine high LOR with low brightness. Mirror reflectors spread the light to permit extended transverse spacing between luminaires. Installed as single luminaires or in continuous lines with iuminaires of in continuous files with infill spacer boxes for use between the luminaires to carry services such as ventilation, sound, standby lighting, fire detection and control, and time indication.

RANGE

Made in one, two, three and four lamp versions, in ratings of 40W 1200mm (4ft), 65W 1500mm (5ft), 85W 1800mm (6ft), 85W 2400mm (8ft) and 125W 2400mm (8ft). Luminaires are supplied complete with mirror controllers and associated control gear.

associated control gear.

Spacer boxes are supplied with optional air extract grille or air diffuser panels, straight or right-angle stub duct attachments and cover blanking plates. An end plate for endofrun or island luminaire use is available. available.

APPLICATIONS

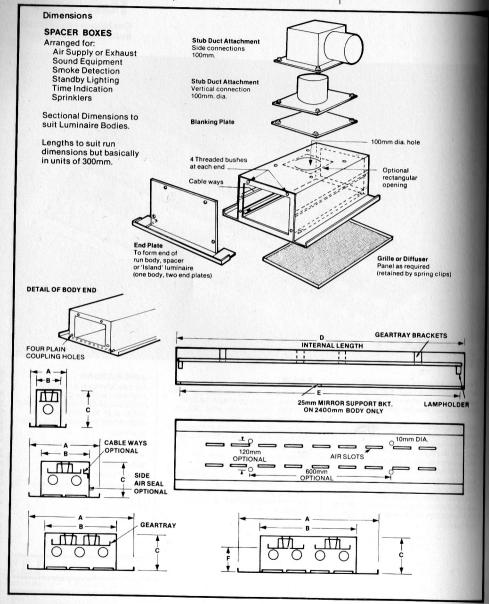
For use wherever a recessed Lor use wherever a recessed luminaire with low glare, WideSpread light distribution and optional air handling facility is appropriate, in situations such as:—

- ■Offices
- ■Shops and department stores
- ■Banking halls
- ■Showrooms
- ■Laboratories
- ■Assembly and lecture areas

Handbook Ref.	1.3.1
To reorder this data sheet quote	5.78 PL1796

FEATURES

- Fully recessed into ceiling to give clean, uncluttered appearance.
- Aluminium mirror reflector system, specially designed to spread the light without glare, gives comfortable seeing conditions and permits the use of fewer luminaires, giving considerable savings in installation, maintenance and running costs.
- ■Air extract spigots or slots for air handling with positive or negative pressure plenum systems; keep lamps and control gear cool for efficient operation.
- ■Infill spacer boxes permit simple installation of services such as ventilation, sound, standby lighting, fire detection and control, and time indication.
- ■Separate circuits on three- and lamp versions permit different lavor of lighting to be selected according circumstances.
- ■Luminaires are tailor-made to sulf ceiling detail.

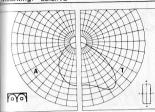


HOTOMETRIC DATA

ince this product is built to ustomer's specification, the data jiven below is representative only and does not allow for air handling lots, or other design variations inculiar to an installation.

TCS 429 WIDE SPREAD

IWO LAMP	TCS 429
ILEFLECTOR	265S
Mounting: CEILING	



OIL	F1	A1	mbo	

(Square) (Transverse)	1.50 2.25
	(Square) (Transverse)

366169

LORL LORL ORL	.00 .70 .70	Multiply by each Service Correction Factor
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Glare Data (IES)

Glare Data (IES)		50 50
Flux Fraction Ratio	0	30
ACG Classification	ACG6	10
For RI = 2.5 at SHR = NOM	BZ3	30 50
Luminous Area (sq cm)		30
65W		10
4050		0 0
Measured: BS 5225 Part 1 1975	Calculated:	I.E.S. TR 2 and TR 10

Service Correction Factors

Total Section	65W 1500mm	
Rating Factor	1.00	
Amalgam Factor	1.04	
Ballast Lumen Factor SS	0.99	
Ballast Lumen Factor XS	0.95	

Room	Reflect	tances		Roo				n Index				
С	w	F	0.75	1.0	1.25	1.5	2.0	2.5	3.0	4.0	5.0	
70	50	10	43	48	53	56	61	63	65	67	69	
,,	30		39	44	49	53	58	61	63	65	68	
	10		35	41	46	50	55	58	61	64	66	
50	50	10	42	47	52	55	59	62	64	66	68	
30	30		38	44	49	52	57	60	62	64	67	
	10		35	41	46	50	54	58	60	63	65	
30	50	10	41	46	51	54	58	61	62	64	66	
30	30		38	43	48	51	56	59	61	63	65	
	10		35	40	46	49	54	57	59	62	64	
0	0	0	34	39	44	48	52	55	57	60	63	

Room Reflectances			Room Reflectances Room Index								
С	w	F	0.75	1.0	1.25	1.5	2.0	2.5	3.0	4.0	5.0
70	50	10	To Service	an.	56	59	62	65	66	68	69
70	30	10	-		52	55	60	62	64	67	68
	10				49	53	57	60	62	65	67
50	50	10		-	55	57	61	63	65	67	68
50	30	10			52	55	59	61	63	65	67
	10			-	49	52	57	60	61	64	66
30	50	10		100	54	56	60	62	64	65	67
30	30	10		- 12	51	54	58	60	62	64	66
	10			151	49	52	56	59	61	63	65
0	0	0	1	127	47	51	55	57	59	61	63

Photoset direct from Photometer tape output.

DIMENSIONS & WEIGHTS

Deling 5	Dimensions (mm)						Weight with
Rating	A	В	С	D	E	F	lamps (kg)
1 × 40W 1200mm (4ft)	225	127	145	1285	1234	75	10-4
2×40W 1200mm (4ft)	380	283	145	1285	1234	75	13.6
3 × 40W 1200mm (4ft)	540	439	145	1285	1234	75	18.3
4×40W 1200mm (4ft)	695	596	145	1285	1234	75	23.7
1×65W 1500mm (5ft)	225	127	145	1595	1543	75	11.7
2 × 65W 1500mm (5ft)	380	283	145	1595	1543	75	15.4
3 × 65W 1500mm (5ft)	540	439	145	1595	1543	75	20.8
	695	596	145	1595	1543	75	27.2
4×65W 1500mm (5ft) 1×85W 1800mm (6ft)	225	127	145	1797	1767	75	13.1
	380	283	145	1797	1767	75	17-6
2 × 85W 1800mm (6ft)	540	439	145	1797	1767	75	23.8
3×85W 1800mm (6ft)	695	596	145	1797	1767	75	31.1
4 × 85W 1800mm (6ft)	225	127	145	2545	2493	75	24.5
1 × 85 or 125W 2400mm (8ft)	380	283	145	2545	2493	75	27.9
2 × 85 or 125W 2400mm (8ft)		439	145	2545	2493	75	32.9
3 × 85 or 125W 2400mm (8ft)	540		145	2545	2493	75	36.3
4 × 85 or 125W 2400mm (8ft)	695	596	145	2343	2430	, 0	

Note:—The Philips TCS429 system is supplied custom-made for each installation. The dimensions above are given for guidance only, and it is necessary for customers to specify exact dimensions at the time of ordering.

RANGE OF OPERATION

240V 50Hz, normal indoor conditions.

Other voltages and frequencies to order.

SPECIFICATION

■Type compliance with BS 4533 2.2 Ordinary Indoor Class I.

To specify state:

Recessed luminaire for 1 (2) (3) (4) fluorescent lamp(s), with mirror reflector. To have an LOR of at least 0.70, to be suitable for an SHR (transverse) of at least 2.0, and to have 'batwing' light distribution. Substantially as Philips TCS 429.

MATERIALS & FINISH

Mirror reflector: Aluminium alloy with semi-specular reflecting finish; white painted aluminium cross louvres.

Luminaire bodies: Sheet steel, white stove enamel (other colours and finishes are available to order).

ELECTRICAL DATA

		Typical electrical characteristics				
Gear tray capacity	Circuit	Circuit Watts Running	Circuit Current Amperes	Minimum Power Factor		
1 × 40W 1200mm (4ft)	Switchstart	51	0.23	0.85		
2 × 40W 1200mm (4ft)	Switchstart	103	0.46	0.85		
1 × 65W 1500mm (5ft)	Switchstart	77	0.34	0.85		
2 × 65W 1500mm (5ft)	Switchstart	154	0.68	0.85		
1 × 85W 1800mm (6ft)	Starterless	96/	0.46	0.90		
2 × 85W 1800mm (6ft)	Starterless	192	0.92	0.90		
1 × 85W 2400mm (8ft)	Starterless	102	0.46	0.90		
2 × 85W 2400mm (8ft)	Starterless	204	0.92	0.90		
1 × 125W 2400mm (8ft)	Starterless	152	0.65	0.90		
2 × 125W 2400mm (8ft)	Starterless	304	1.30	0.90		

Luminaires with three or four lampways carry two gear trays that can be independently switched.

On a balanced 3-phase, 4-wire supply, the current in the neutral conductor does not exceed 3 x 25% of that in any line conductor.

All information quoted relates to average luminaires on a 240V 50Hz supply at 25°C.

ORDERING DATA

Since Philips custom-made pro are built to individual requirem no stock is held and details sug product dimensions are finally before manufacture. Enquiries custom-made products should in directed to the Special Products Division, at the address on this leaflet.

Made in Great Britain

