

Narrow aperture with balanced illumination and versatility.

LCS6G20LW228
LYTECEL 6



6" X 48" 20 CELL (1 ROW) PARABOLIC LOUVER FLUORESCENT
FOR CONTINUOUS ROW MOUNTING
AIR RETURN/STATIC
2 LAMP T5, IES RP1 FOR VDT AREAS

Lytecel 6 Continuous (LC) features a low brightness 20 cell parabolic louver that has an opening of only 4 1/4" wide and a length of 48". When mounted in continuous rows it creates an uninterrupted continuous louver appearance. It will fit most 6" wide lay-in or slot grid ceiling systems and has unique aligning and clamping hardware that creates the proper fit of the fixture into the ceiling system.

Project: _____
 Location: _____
 Catalog No: _____
 Fixture Type: _____
 Mfg: _____ Lamps: _____ Qty: _____
 Notes: _____

Ordering Guide

Explanation of Catalog Number Example: LCS6G20LW228

Family	Body Style	Fixture Width	Ceiling Type	Number of Cells	Louver Finish	Reflector	Lamp Qty	Lamp/ Fixture Length	Voltage	Ballast Type	Options
<input type="checkbox"/> LC	<input type="checkbox"/>	<input type="checkbox"/> 6	<input type="checkbox"/>	<input type="checkbox"/> 20	<input type="checkbox"/>	<input type="checkbox"/> W	<input type="checkbox"/> 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lytecel 6" Continuous Louver Appearance	A = Air Return S = Static	6 = 6"	G = 9/16" or 15/16" Grid T = Slot Grid	1 Row of 20 Cells	L = Low Iridescence Semi-specular P = Low Iridescence Specular	W = White	(By Others) 2 = 2 Lamp	28 = T5 54 = T5HO (Nominal 48")	UNV = 120/277V 120 = 120V 277 = 277V 347 = 347V	PG = 2 Lamp Elect. P.R.S., <10% THD DA = DALI Digital Addressable Dimming (347V N/A). For 347V Dimming, Consult Your Philips Lighting Representative.	Add Appropriate Suffix to Catalog No., i.e., F

Features

- 48" long louver gives an uninterrupted louver appearance when row mounted. Ideal for continuous row applications.
- 52.0% efficient (2 lamp) semi-specular louver.
- 55.3% efficient (2 lamp) specular louver.
- 1.3 spacing mounting ratio, semi-specular louver.
- 1.5 spacing mounting ratio specular louver.
- Semi-specular or specular, low iridescence, pre-anodized aluminum louver.
- Vertical grain on cross blades eliminates reflected lamp image.
- Spring loaded latches (self centering).
- Louver has protective dust guard.
- Only 5/2" deep body.
- Air return models meet UL 1598, Paragraph 9.2.2.5 requirements.
- Black housing exterior for cooler ballast operating temperature.
- cULus Listed twin knockout access plate.
- Optional DALI ballast accepts digital dimming commands from computers, scene controllers and automatic control devices.

Specifications

Performance: In an installation of 2 lamp 28W semi-specular luminaires in a room cavity ratio of 1, reflectance 80% ceiling, 50% wall, 20% floor, the C.U. shall not be less than .56 with a spacing to mounting ratio of 1.3 perpendicular to the lamps. To meet IES RP-1 for VDT areas the VCP (visual comfort probability) shall not be less than 87 either crosswise or lengthwise and the candela value between 55° and 90° in the 0° to 90° planes shall not exceed 2858. Candelas at Nadir (0°) not to exceed 1373.

Materials: Chassis parts are die-formed cold rolled steel.

Air Handling: (LCA only) Side air passages for air return without black reveal.

Louvers: Pre-anodized aluminum.

Finish: Louver—specular or semi-specular low iridescence pre-anodized reflector sheet.

Reflector: White baked polyester enamel.

Chassis Exterior: Black baked polyester enamel.

Electrical: Thermally protected class "P" ballast C.B.M. approved, non PCB. If K.O. is within 3" of ballast, use wire suitable for at least 90°.

Labels: cULus Listed.

This product may have a mercury containing lamp. Manage in accord with Disposal Laws. See: www.lamprecycle.org

Options/Accessories

Coupler/Clamp: (Set of 2) Required for beginning of rows. Order Catalog Number: **LC85 CLAMP** (for G or T type).

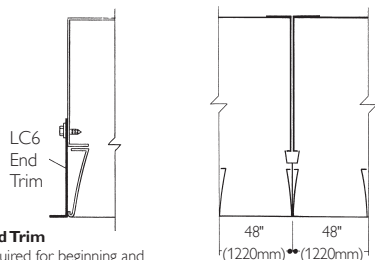
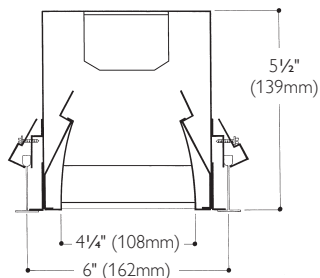
End Trim: Required at beginning and end of rows. For every row order 2. Order Catalog Number: **LC6 END TRIM**.

Electrical/Wiring Options: Consult your Philips Lighting representative.

EM Pack or Dimming Ballast: Consult your Philips Lighting representative.

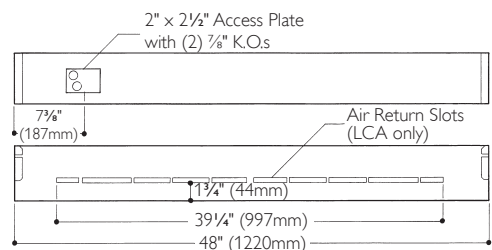
Fusing: Internal fast-blow fusing. Suffix: **F**.

Dimensions

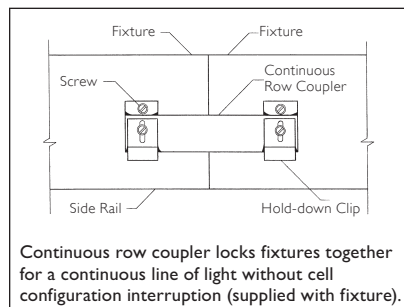
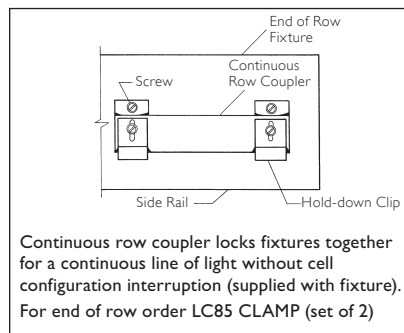
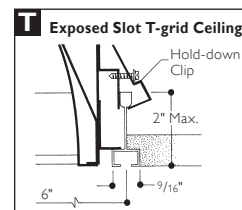
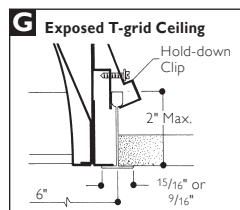


End Trim required for beginning and end of row. Order Catalog Number: **LC6 END TRIM**

Joint of Two Units



Mounting Methods



NOTE: If product is to be mounted individually, use LI series.

Performance

Model No. LCS6G20LW228120PG

LER = FP-43.3 IW-66.0 BF-1.0
Comparative yearly lighting energy cost per 1000 lumens = \$5.54

Report Number: G1206007

Catalog Number: LCS6G20LW228120PG

Lamp: F28 T5

Luminaire: 6" wide troffer with semi-specular louver.

Ballast: Advance ICN-2S28

Report is based on 2750 lumens per lamp.

Efficiency: 52.0%

CIE Type: Direct-Indirect

Plane: 0 Deg. 90 Deg.

Spacing Criteria: 1.2 1.3

Shielding Angles: 90 90

Plane: 0 Deg. 90 Deg.

Luminous Length: 47.943 5.816

Candela Distribution

Angle	0.0	45.0	90.0	FLUX
0	1373	1373	1373	
5	1300	1383	1363	133
15	1278	1420	1516	393
25	1188	1382	1403	614
35	1023	1139	1216	711
45	829	868	861	668
55	488	348	137	288
65	26	36	31	37
75	3	5	9	6
85	1	2	3	2
90	1	2	1	

Coefficients of Utilization

Ceiling	80%			50%			30%			
Wall	70	50	30	50	30	10	50	30	10	
RCR	Zonal Cavity Method— Effective Floor Cavity Reflectance = 0.20									
Room Cavity Ratio	1	58	56	55	53	52	51	51	50	49
	2	54	51	48	48	46	45	47	45	44
	3	50	46	43	44	41	39	43	41	39
	4	47	42	38	40	37	35	39	36	34
	5	44	38	34	37	33	31	36	33	31
	6	41	35	31	33	30	28	33	30	27
	7	38	32	28	31	27	25	30	27	25
	8	35	29	25	28	25	23	28	25	22
	9	33	27	23	26	23	20	26	23	20
	10	31	25	21	24	21	19	24	21	19

Luminance Data in Candela/Sq. Meter

Average in Deg.	Average 0 Deg.	Average 45 Deg.	Average 90 Deg.
45	6515.	6821.	6766.
55	4728.	3371.	1327.
65	342.	473.	408.
75	64.	107.	193.
85	64.	128.	191.

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixt
0-30	1144	20.8	40.0
0-40	1856	33.7	64.9
0-60	2812	51.1	98.4
0-90	2858	52.0	100.0
90-180	0	0.0	0.0
0-180	2858	52.0	100.0

Typical V.C.P.'s

Room Size	Mounting Height Lengthwise Crosswise							
	Luminaires 0 Deg. Plane				Luminaires 90 Deg. Plane			
	8.5	10	8.5	10	8.5	10	8.5	10
30x30	87	84	80	71	93	89	85	76
40x40	87	84	81	78	94	91	89	80
60x30	87	84	81	77	93	89	87	78
60x60	87	83	81	79	94	91	90	83
100x100	88	83	81	79	94	92	91	86

Performance

Model No. LCS6G20PW228120PG

LER = FP-45.8 IW-66.0 BF-1.0

Comparative yearly lighting energy cost per 1000 lumens = \$5.24

Report Number: G1206008

Catalog Number: LCS6G20PW228120PG

Lamp: F28 T5

Luminaire: 6" wide troffer with specular louver.

Ballast: Advance ICN-2S28

Report is based on 2750 lumens per lamp.

Efficiency: 55.3%

CIE Type: Direct-Indirect

Plane: 0 Deg. 90 Deg.

Spacing Criteria: 1.3 1.5

Shielding Angles: 90 90

Plane: 0 Deg. 90 Deg.

Luminous Length: 47.943 5.816

Candela Distribution

Angle	0.0	45.0	90.0	FLUX
0	1348	1347	1348	
5	1337	1348	1377	134
15	1278	1470	1522	414
25	1184	1483	1448	649
35	1079	1221	1262	756
45	893	963	980	737
55	586	377	113	314
65	1	35	29	27
75	1	4	9	5
85	1	2	4	2
90	0	1	1	

Coefficients of Utilization

Ceiling	80%			50%			30%			
Wall	70	50	30	50	30	10	50	30	10	
RCR	Zonal Cavity Method— Effective Floor Cavity Reflectance = 0.20									
Room Cavity Ratio	1	62	60	58	56	55	54	54	53	52
	2	58	54	51	51	49	47	50	48	46
	3	54	49	46	47	44	42	45	43	41
	4	50	45	41	43	39	37	41	39	36
	5	46	40	36	39	35	33	38	35	32
	6	43	37	33	35	32	29	35	31	29
	7	40	34	30	33	29	26	32	29	26
	8	38	31	27	30	26	24	29	26	24
	9	35	29	24	28	24	22	27	24	21
	10	33	26	22	26	22	20	25	22	20

Luminance Data in Candela/Sq. Meter

Average in Deg.	Average 0 Deg.	Average 45 Deg.	Average 90 Deg.
45	7018.	7568.	7701.
55	5677.	3652.	1095.
65	13.	460.	381.
75	21.	86.	193.
85	64.	128.	255.

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixt
0-30	1198	21.8	39.4
0-40	1954	35.5	64.3
0-60	3004	54.6	98.8
0-90	3039	55.3	100.0
90-180	0	0.0	0.0
0-180	3039	55.3	100.0

Typical V.C.P.'s

Room Size	Mounting Height Lengthwise Crosswise							
	Luminaires 0 Deg. Plane				Luminaires 90 Deg. Plane			
	8.5	10	8.5	10	8.5	10	8.5	10
30x30	86	76	73	71	93	88	85	70
40x40	86	76	75	74	94	90	87	79
60x30	86	76	75	76	93	88	85	77
60x60	86	77	76	76	94	91	89	82
100x100	86	77	76	76	93	92	91	85



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