

iBright™ 2X2

LED Recessed Troffer

DLC Model

RTUS22HU400000

RTUS22HU500000

Product Description

iBright™ LED Recessed Troffer is a well-designed, lay-in ceiling troffer fixture widely used in offices, hospitals, and other professional locales.

iBright™ LED Recessed Troffer have an outstanding luminous efficacy of more than 85 lm/W achieved by utilizing ultra-bright SMD LEDs in tandem with Japanese-design reflective materials.

Thanks to its good heat sink design, iBright™ LED Troffer has unbelievable low In-situ temperature 42 °C. Calculated L70 lifetime is more than 94,000h.

Performance Summary

Input: 42W, 100-277VAC, 0.35A

Luminous efficacy: Typ.> 85 lm/W

Lumens: 3700 lm

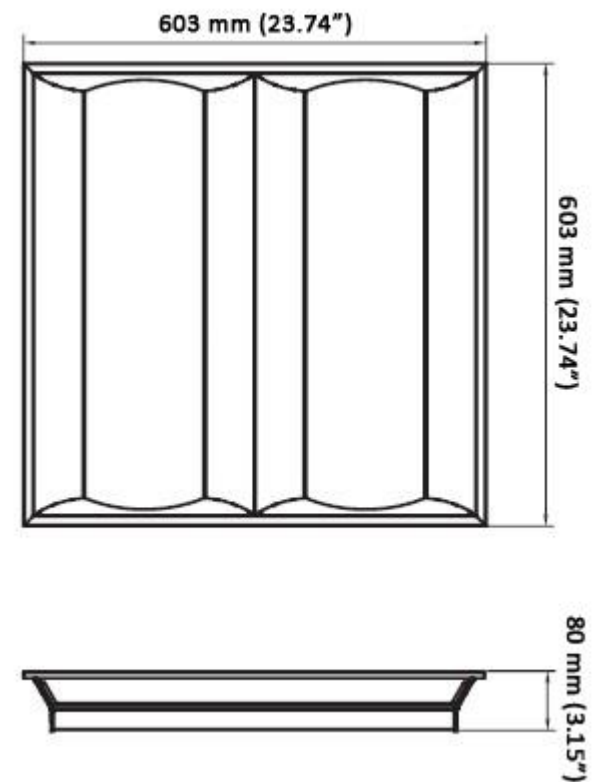
CCT: 4000 K & 5000 K

Color Accuracy: CRI >85, R9>25

L70 lifetime: 94,000h

PF/THD: >0.95/<10%

Spacing Criteria: C0/180: 1.23; C90/270: 1.28



www.atgelectronics.com Toll free: 877-461-5333 E-mail: sales@atgelectronics.com



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Ordering Information

Typical Order Example: RTUS22HU400000

SERIES	STANDARD	SIZE	VOLTAGE	CCT	CONTROL	OPTIONS
RT= Recessed Troffer	US=US Size EU=EU Size	22=2X2	HU=100-277V	40=4000K 50=5000K	00=0-10v dimming	00=Default

Product Specifications

CONSTRUCTION & MATERIALS

Dimension	603*603 mm (23.74*23.74 inch)
Housing	Cold rolled steel sheet and PC diffuser
Finish Color	White
Lens Type	Frosted

ENVIRONMENTAL SYSTEM

Work Environment	Indoor use (applicable for dry environments)
Operating Temperature	-20°C~50°C (-4~122°F)

OPTICAL SYSTEM

Luminous Flux	3700 lm
Luminous Efficacy	>85 lm/w
Color Temperature	4000 K & 5000 K
CRI	>85
Spacing Criteria	C0/180: 1.23; C90/270: 1.28
Lumen maintenance at 6000h	98.28%
Dimming	0-10V dimming

ELECTRICAL SYSTEM

Input Voltage/Current	100-277VAC/0.35A
Off State Power	0W
Power Consumption	42 W
Power Factor	>0.95
THD	<10%

REGULATORY & VOLUNTARY QUALIFICATIONS

Design Lights Consortium
Lighting Facts, LM79, LM80
UL/cUL, KEMA, and CE certified external driver
CE, RoHS

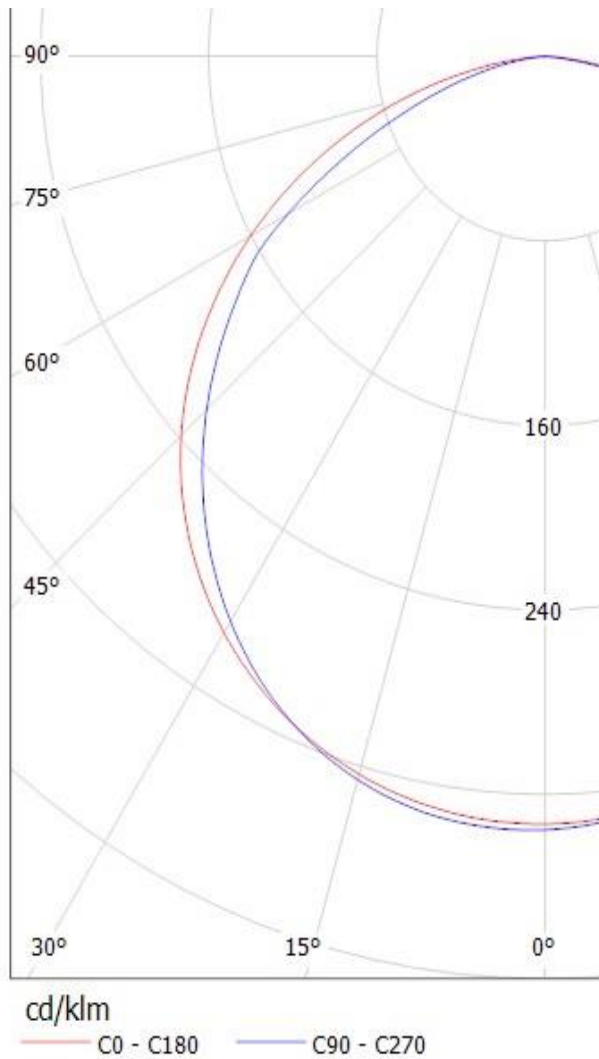


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Photometric



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	961.3	26.40%	26.40%
0-40	1,591.20	43.70%	43.70%
0-60	2,872.10	78.90%	78.90%
60-90	765.7	21%	21%
70-100	297.8	8.20%	8.20%
90-120	1.5	0%	0%
0-90	3,637.80	99.90%	99.90%
90-180	4	0.10%	0.10%
0-180	3,641.80	100%	100%

INTENSITY (CANDLEPOWER) SUMMARY

Gamma	C 0°	C 45°	C 90°	C 135°	C 180°	C 225°	C 270°	C 315°	C 360°
0.0°	333	334	335	334	333	334	335	334	333
15.0°	323	321	321	322	325	327	327	326	323
30.0°	294	289	285	289	297	297	292	295	294
45.0°	242	235	228	236	245	243	229	241	242
60.0°	164	161	154	162	166	167	147	165	164
75.0°	67	71	57	71	68	66	42	65	67
90.0°	0.57	0.29	0.11	0.1	0.11	0.06	0.07	0.48	0.57

LUMEN AT DISTANCE

HEIGHT(FT)	CENTER BEAM	BEAM SPREAD(FT)		FIELD SPREAD(FT)	
	FOOTCANDLE	HORIZONTAL	VERTICAL	HORIZONTAL	VERTICAL
4	75.8 FC	12.4	13.7	37.5	48.7
8	18.9 FC	24.7	27.3	74.9	97.3
12	8.4 FC	37.1	41	112.4	146
16	4.7 FC	49.5	54.6	149.8	194.7
20	3.0 FC	61.9	68.3	187.3	243.3

BEAM ANGLE	FIELD ANGLE
114.2°	155.9°
119.3°	161.3°



COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE: 20%

RCC %:	80				70				50			30			10			0
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	0
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1
1	1.09	1.04	1	0.96	1.06	1.02	0.98	0.85	0.97	0.94	0.91	0.94	0.91	0.89	0.9	0.88	0.86	0.84
2	0.99	0.91	0.84	0.78	0.96	0.89	0.82	0.71	0.85	0.8	0.75	0.82	0.77	0.73	0.79	0.75	0.72	0.7
3	0.9	0.79	0.71	0.64	0.87	0.78	0.7	0.6	0.75	0.68	0.63	0.72	0.66	0.62	0.69	0.65	0.61	0.58
4	0.82	0.7	0.61	0.54	0.8	0.69	0.6	0.51	0.66	0.59	0.53	0.64	0.58	0.52	0.62	0.56	0.52	0.5
5	0.75	0.62	0.53	0.47	0.73	0.61	0.53	0.45	0.59	0.52	0.46	0.57	0.51	0.45	0.55	0.49	0.45	0.43
6	0.7	0.56	0.47	0.41	0.68	0.55	0.47	0.39	0.53	0.46	0.4	0.52	0.45	0.4	0.5	0.44	0.39	0.37
7	0.64	0.51	0.42	0.36	0.63	0.5	0.42	0.35	0.48	0.41	0.35	0.47	0.4	0.35	0.46	0.39	0.35	0.33
8	0.6	0.46	0.38	0.32	0.58	0.46	0.37	0.31	0.44	0.37	0.31	0.43	0.36	0.31	0.42	0.36	0.31	0.29
9	0.56	0.42	0.34	0.29	0.55	0.42	0.34	0.28	0.41	0.33	0.28	0.4	0.33	0.28	0.39	0.32	0.28	0.26
10	0.52	0.39	0.31	0.26	0.51	0.39	0.31	0.25	0.38	0.3	0.26	0.37	0.3	0.25	0.36	0.3	0.25	0.24

Application Reference

Open Area

40'long x 24'wide x 9'ceiling, 80/50/20 reflectance, 0.8 LLF, Calculation grid at 2.5'

Spacing	Number of Luminaires	Maintained Average Illumination	Max./Min.	Input Power per Luminaire	Watts/ Sq. foot
8'x8'	15	42fc	2.36	42W	0.66
8'x10'	15	39fc	1.88	42W	0.66
10'x10'	12	31fc	2.35	42W	0.53
10'x12'	12	30fc	1.65	42W	0.53

Corridor

100'long x 5'wide x 9'ceiling, 80/50/20 reflectance, 0.8 LLF, Calculation grid at 2.5'

Spacing	Number of luminaires	Maintained Average Illumination	Max. /Min.	Input Power per Luminaire	Watts/ Sq. foot
12'	9	26fc	1.75	42W	0.76
14'	8	23fc	2.3	42W	0.68
16'	7	20fc	3	42W	0.59

