

Tubo t8 cristal 1200mm 20w g13 180 grados ip20

LT820W60TC

EAN: 8436541044647

Descripción

Aplicaciones domésticas, comercios y oficinas



Características luminicas

Número EPREL	494812	Pst LM	1
Fuente luminosa	LT820W60TC	Direccional	NDSL
Tecnología utilizada	LED	Red	MLS
Temperatura de color	6000K	Forma de la fuente de luz	T8
Flujo luminoso útil ϕ	2180 lm WC	Conexión / Casquillo	G13
Ángulo de apertura (Min,Max)	180°	Factor de supervivencia	0.9
CRI	80	Factor mto. de flujo lum.	0.96
CRI R9	22	Eficiencia energética	F
Coord. cromaticidad (x,y)	0.322, 0.332	η TM	109
Consistencia cromática	6	Consumo de energía	20kWh/1000h
SVM	0.4		

Características eléctricas

Potencia nominal	20W	Corriente nominal entrada	0.09A
Voltaje nominal entrada	220V - 240V	Frecuencia funcionam.	50 - 60 Hz

Información adicional

Color	Blanco	Material del difusor	Cristal templado
Grado de estanqueidad	IP20	Vida útil	30000h
Material primario	ABS	Forma del producto	T8

Medidas (Largo x Ancho x Alto) y pesos

Dimensiones del producto	26 x 26 x 1200 mm	Peso neto	209 g
Dimensiones envase	1225 x 30 x 30 mm	Peso embalaje	5.65 kg
Dimensiones embalaje	1253 x 155 x 160 mm	Unidades por embalaje	25



Observaciones



Desconectar la corriente antes de la instalación.
Se necesitan nociones básicas de electricidad para instalar este producto.
Los productos electrónicos no son juguetes. Manténgalos alejados de los niños.
No manipule el producto con las manos mojadas.
No perforar ningún elemento de la luminaria.
Si alguna parte de la luminaria se encuentra rota sustitúyala inmediatamente por una nueva.
La fuente de luz de esta luminaria debe reemplazarse únicamente por el fabricante o su servicio técnico homologado.
En los productos que se venden por metro todas las características se refieren a un metro de producto.
Sustitución de tubos fluorescentes sin balastro y lampara G24D por tubos led.
Condiciones de ensayo 24°C y 50% de humedad relativa.

Normativa

Los productos antes mencionados cumplen con las siguientes normas y directivas europeas:

2014/35/EU (LVD)

EN 62776:2015

2014/30/EU (EMC)

EN IEC 55015:2019+A11:2020

EN IEC 61547:2023

EN IEC 61000-3-2:2019+A1:2021

EN 61000-3-3:2013+A2:2021

2015/863/EU (RHoS)

IEC 62321-3-1:2013

IEC 62321-4:2013+A2017

IEC 62321-5:2013

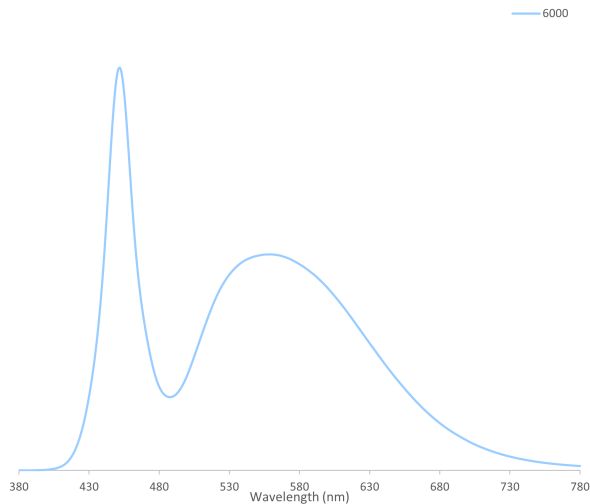
IEC 62321-6:2015

IEC 62321-7-1:2015

IEC 62321-7-2:2017

IEC 62321-8:2017

Colorimetría



Distribución espectral

Glare evaluation according to UGR												
p Ceiling		70	70	50	50	30	70	70	50	50	30	
p Walls		50	30	50	30	30	50	30	50	30	30	
p Floor		20	20	20	20	20	20	20	20	20	20	
Room size		Viewing direction at right angles						Viewing direction parallel				
X	Y											
2H	2H	35.6	36.7	36.2	37.4	38.1	33.1	34.2	33.8	34.9	35.6	
2H	3H	38.5	39.6	39.2	40.2	41.0	34.5	35.6	35.2	36.2	37.0	
2H	4H	40.2	41.2	40.9	41.8	42.7	35.1	36.0	35.7	36.7	37.5	
2H	6H	42.1	43.0	42.8	43.7	44.5	35.4	36.3	36.1	37.0	37.8	
2H	8H	43.1	44.0	43.9	44.7	45.6	35.5	36.3	36.2	37.0	37.9	
2H	12H	44.4	45.2	45.1	45.9	46.8	35.5	36.3	36.2	37.0	37.9	
4H	2H	36.1	37.1	36.8	37.8	38.6	34.3	35.3	35.0	36.0	36.8	
4H	3H	39.3	40.1	40.0	40.8	41.7	36.1	36.9	36.8	37.6	38.5	
4H	4H	41.1	41.9	41.9	42.6	43.5	36.8	37.6	37.6	38.3	39.2	
4H	6H	43.2	43.9	44.0	44.6	45.5	37.4	38.0	38.1	38.8	39.7	
4H	8H	44.4	45.0	45.2	45.8	46.7	37.6	38.2	38.3	38.9	39.9	
4H	12H	45.8	46.3	46.6	47.1	48.1	37.7	38.2	38.5	39.0	40.0	
8H	4H	41.4	42.0	42.2	42.8	43.7	38.0	38.6	38.8	39.4	40.3	
8H	6H	43.7	44.3	44.5	45.1	46.0	38.9	39.5	39.7	40.3	41.2	
8H	8H	45.1	45.6	45.9	46.4	47.4	39.4	39.8	40.2	40.6	41.6	
8H	12H	46.8	47.2	47.6	48.0	49.0	39.7	40.1	40.5	40.9	41.9	
12H	4H	41.4	42.0	42.2	42.8	43.7	38.4	38.9	39.2	39.7	40.7	
12H	6H	43.8	44.3	44.6	45.1	46.1	39.6	40.0	40.4	40.9	41.8	
12H	8H	45.3	45.7	46.1	46.5	47.5	40.2	40.6	41.0	41.4	42.4	
Variation of the observer position for the luminance distance S												
S = 1.0H		+0.2 / -0.2					+0.1 / -0.1					
S = 1.5H		+0.3 / -0.3					+0.2 / -0.3					
S = 2.0H		+0.4 / -0.4					+0.4 / -0.6					
Standard table		-----					BK13					
Correction summand		-----					23.5					
Corrected glare indices referring to 2140 lm total luminous flux												

Tabla UGR

Fotometría

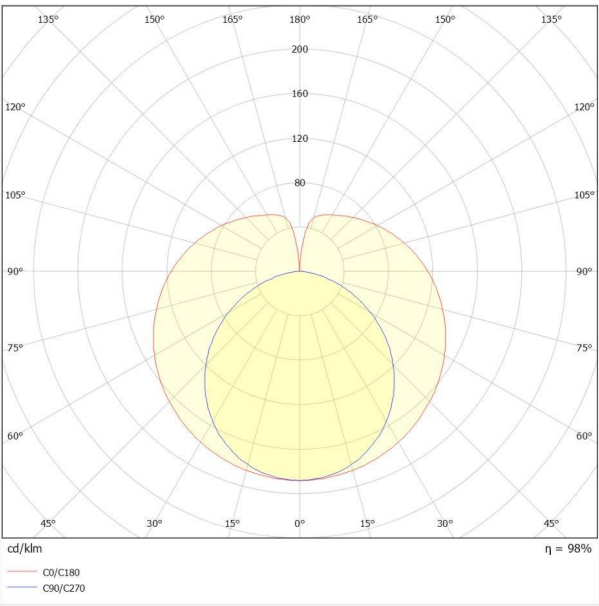


Diagrama polar



Diagrama de cono

Sorgente luminosa tubo LED

LT820W60TC

EAN: 8436541044647

Descrizione

Applicazioni domestiche, commerciali e d'ufficio



Caratteristiche luminose

Numero EPREL	494812	Pst LM	1
Sorgente luminosa	LT820W60TC	Direzionale	NDSL
Tecnologia utilizzata	LED	Rete	MLS
Temperatura di colore	6000K	Forma della sorgente luminosa	T8
Flusso luminoso utile Φ	2180 lm WC	Connessione / Portalamada	G13
Angolo di apertura (Min,Max)	180°	Fattore di sopravvivenza	0.9
CRI	80	Fattore manutenzione flusso luminoso	0.96
CRI R9	22	Efficienza energetica	F
Coordinate cromatiche (x, y)	0.322, 0.332	η TM	109
Coerenza cromatica	6	Consumo di energia	20kWh/1000h
SVM	0.4		

Caratteristiche elettriche

Potenza nominale	20W	Corrente nominale ingresso	0.09A
Tensione nominale in ingresso	220V - 240V	Frequenza di esercizio	50 - 60 Hz

Informazioni aggiuntive

Colore	Bianco	Materiale del diffusore	Vetro temperato
Grado di tenuta	IP20	Durata	30000h
Materiale primario	ABS	Forma del prodotto	T8

Misure (lunghezza x larghezza x altezza) e pesi

Dimensioni del prodotto	26 x 26 x 1200 mm	Peso netto	209 g
Dimensioni del contenitore	1225 x 30 x 30 mm	Peso dell'imballaggio	5.65 kg
Dimensioni dell'imballaggio	1253 x 155 x 160 mm	Unità per imballaggio	25



Osservazioni



Scollegare l'alimentazione prima dell'installazione.
Per installare questo prodotto sono necessarie conoscenze elettriche di base.
I prodotti elettronici non sono giocattoli. Tenerli lontani dalla portata dei bambini.
Non maneggiare il prodotto con le mani bagnate.
Non forare nessun elemento dell'apparecchio.
Se qualsiasi parte dell'apparecchio è rotta, sostituirla immediatamente con una nuova.
La sorgente luminosa di questo apparecchio deve essere sostituita esclusivamente dal produttore o dal suo servizio tecnico approvato.
Per i prodotti venduti a metraggio tutte le caratteristiche si riferiscono ad un metro di prodotto.
Sostituzione tubi fluorescenti senza alimentatore e lampada G24D con tubi LED.
Condizioni di prova 24°C e 50% di umidità relativa

Normativo

I suddetti prodotti sono conformi alle seguenti norme e direttive europee:

2014/35/EU (LVD)

EN 62776:2015

2014/30/EU (EMC)

EN IEC 55015:2019+A11:2020

EN IEC 61547:2023

EN IEC 61000-3-2:2019+A1:2021

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IEC 62321-4:2013+A2017

IEC 62321-5:2013

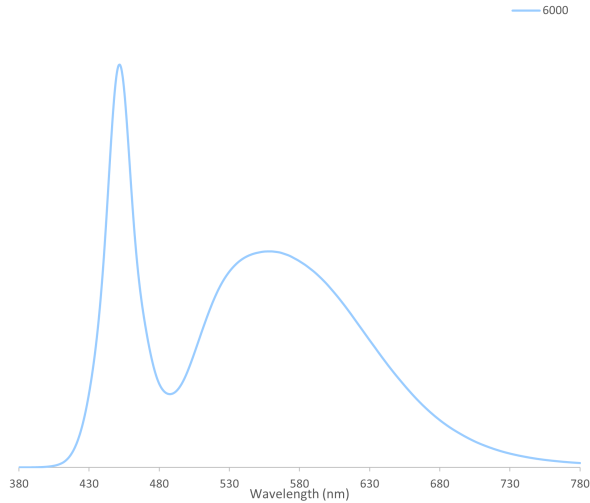
IEC 62321-6:2015

IEC 62321-7-1:2015

IEC 62321-7-2:2017

IEC 62321-8:2017

Colorimetria



Distribuzione spettrale

Glare evaluation according to UGR												
p Ceiling		70	70	50	50	30	70	70	50	50	30	
p Walls		50	30	50	30	30	50	30	50	30	30	
p Floor		20	20	20	20	20	20	20	20	20	20	
Room size		Viewing direction at right angles						Viewing direction parallel				
X	Y											
2H	2H	35.6	36.7	36.2	37.4	38.1	33.1	34.2	33.8	34.9	35.6	
2H	3H	38.5	39.6	39.2	40.2	41.0	34.5	35.6	35.2	36.2	37.0	
2H	4H	40.2	41.2	40.9	41.8	42.7	35.1	36.0	35.7	36.7	37.5	
2H	6H	42.1	43.0	42.8	43.7	44.5	35.4	36.3	36.1	37.0	37.8	
2H	8H	43.1	44.0	43.9	44.7	45.6	35.5	36.3	36.2	37.0	37.9	
2H	12H	44.4	45.2	45.1	45.9	46.8	35.5	36.3	36.2	37.0	37.9	
4H	2H	36.1	37.1	36.8	37.8	38.6	34.3	35.3	35.0	36.0	36.8	
4H	3H	39.3	40.1	40.0	40.8	41.7	36.1	36.9	36.8	37.6	38.5	
4H	4H	41.1	41.9	41.9	42.6	43.5	36.8	37.6	37.6	38.3	39.2	
4H	6H	43.2	43.9	44.0	44.6	45.5	37.4	38.0	38.1	38.8	39.7	
4H	8H	44.4	45.0	45.2	45.8	46.7	37.6	38.2	38.3	38.9	39.9	
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8H	8H	45.1	45.6	45.9	46.4	47.4	39.4	39.8	40.2	40.6	41.6	
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12H	4H	41.4	42.0	42.2	42.8	43.7	38.4	38.9	39.2	39.7	40.7	
12H	6H	43.8	44.3	44.6	45.1	46.1	39.6	40.0	40.4	40.9	41.8	
12H	8H	45.3	45.7	46.1	46.5	47.5	40.2	40.6	41.0	41.4	42.4	
Variation of the observer position for the luminance distance S												
S = 1.0H		+0.2 / -0.2					+0.1 / -0.1					
S = 1.5H		+0.3 / -0.3					+0.2 / -0.3					
S = 2.0H		+0.4 / -0.4					+0.4 / -0.6					
Standard table		-----					BK13					
Correction summand		-----					23.5					
Corrected glare indices referring to 2140 lm total luminous flux												

Tabella UGR

Fotometria

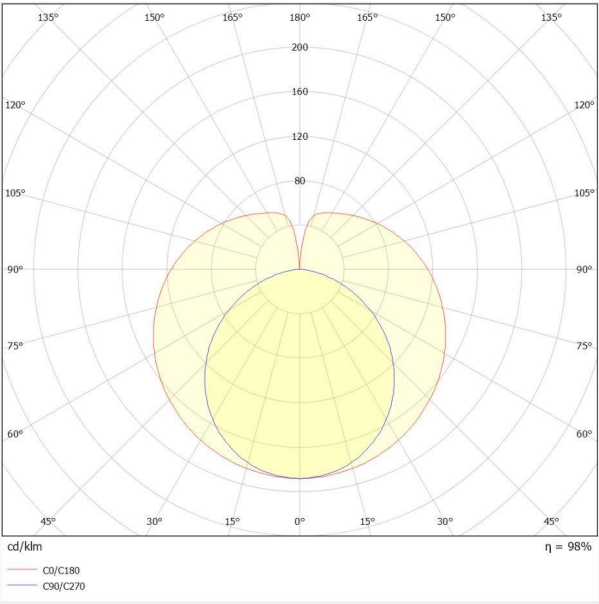


diagramma polare



diagramma del cono

Light source LED tube

LT820W60TC

EAN: 8436541044647

Description

Home, commercial and office applications



Lighting characteristics

EPREL number	494812	Pst LM	1
Light source	LT820W60TC	Directional	NDSL
Technology used	LED	Network	MLS
Color temperature	6000K	Light source shape	T8
Useful luminous flux Φ	2180 lm WC	Connection / Socket	G13
Opening angle (Min,Max)	180°	Survival factor	0.9
CRI	80	Luminous flux maintenance factor	0.96
CRI R9	22	Energy efficiency	F
Chromaticity coordinates (x, y)	0.322, 0.332	η TM	109
Chromatic consistency	6	Power consumption	20kWh/1000h
SVM	0.4		

Electrical characteristics

Nominal power	20W	Nominal input current	0.09A
Nominal input voltage	220V - 240V	Operating frequency	50 - 60 Hz

Additional information

Color	White	Diffuser material	Tempered glass
Degree of sealing	IP20	Useful life	30000h
Primary material	ABS	Product form	T8

Measurements (length x width x height) and weights

Product Dimensions	26 x 26 x 1200 mm	Net weight	209 g
Packaging dimensions	1225 x 30 x 30 mm	Masterbox weight	5.65 kg
Master Box	1253 x 155 x 160 mm	Units per Masterbox	25



Observations



Disconnect power before installation.
Basic electrical knowledge is required to install this product.
Electronic products are not toys. Keep them away from children.
Do not handle the product with wet hands.
Do not drill any element of the luminaire.
If any part of the luminaire is broken, replace it immediately with a new one.
The light source of this luminaire must only be replaced by the manufacturer or its approved technical service.
For products sold by the meter, all characteristics refer to one meter of product.
Replacement of fluorescent tubes without ballast and G24D lamp with LED tubes.
Test conditions 24°C and 50% relative humidity.

Normative

The aforementioned products comply with the following European standards and directives:

2014/35/EU (LVD)

EN 62776:2015

2014/30/EU (EMC)

EN IEC 55015:2019+A11:2020

EN IEC 61547:2023

EN IEC 61000-3-2:2019+A1:2021

EN 61000-3-3:2013+A2:2021

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IEC 62321-3-1:2013

IEC 62321-4:2013+A2017

IEC 62321-5:2013

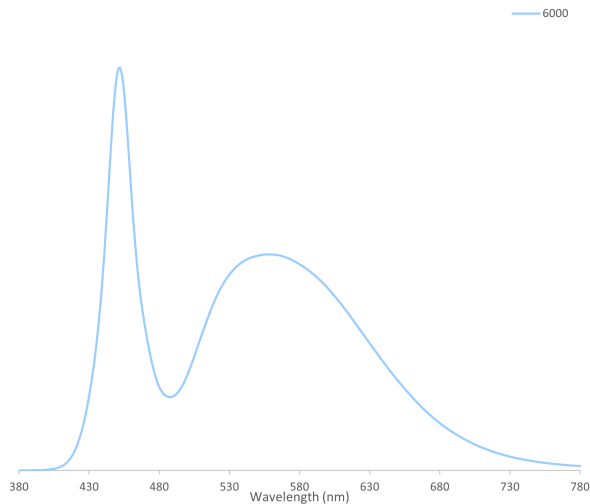
IEC 62321-6:2015

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IEC 62321-8:2017

Colorimetry

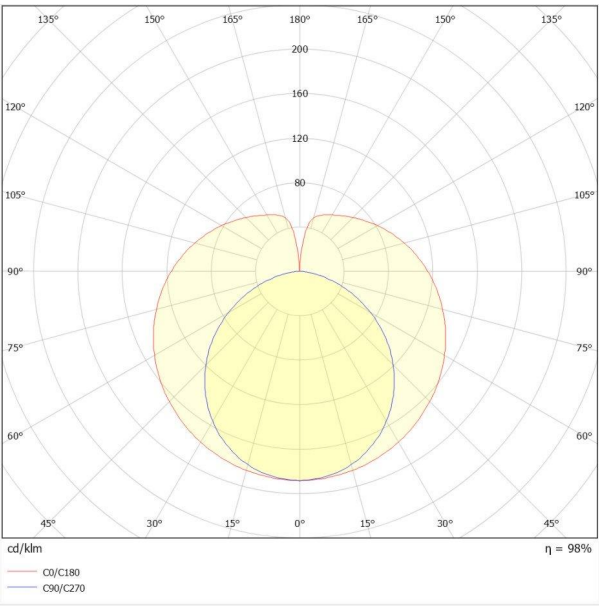


Spectral distribution

Glare evaluation according to UGR												
p Ceiling		70	70	50	50	30	70	70	50	50	30	
p Walls		50	30	50	30	30	50	30	50	30	30	
p Floor		20	20	20	20	20	20	20	20	20	20	
Room size		Viewing direction at right angles						Viewing direction parallel				
X	Y											
2H	2H	35.6	36.7	36.2	37.4	38.1	33.1	34.2	33.8	34.9	35.6	
2H	3H	38.5	39.6	39.2	40.2	41.0	34.5	35.6	35.2	36.2	37.0	
2H	4H	40.2	41.2	40.9	41.8	42.7	35.1	36.0	35.7	36.7	37.5	
2H	6H	42.1	43.0	42.8	43.7	44.5	35.4	36.3	36.1	37.0	37.8	
2H	8H	43.1	44.0	43.9	44.7	45.6	35.5	36.3	36.2	37.0	37.9	
2H	12H	44.4	45.2	45.1	45.9	46.8	35.5	36.3	36.2	37.0	37.9	
4H	2H	36.1	37.1	36.8	37.8	38.6	34.3	35.3	35.0	36.0	36.8	
4H	3H	39.3	40.1	40.0	40.8	41.7	36.1	36.9	36.8	37.6	38.5	
4H	4H	41.1	41.9	41.9	42.6	43.5	36.8	37.6	37.6	38.3	39.2	
4H	6H	43.2	43.9	44.0	44.6	45.5	37.4	38.0	38.1	38.8	39.7	
4H	8H	44.4	45.0	45.2	45.8	46.7	37.6	38.2	38.3	38.9	39.9	
4H	12H	45.8	46.3	46.6	47.1	48.1	37.7	38.2	38.5	39.0	40.0	
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12H	6H	43.8	44.3	44.6	45.1	46.1	39.6	40.0	40.4	40.9	41.8	
12H	8H	45.3	45.7	46.1	46.5	47.5	40.2	40.6	41.0	41.4	42.4	
Variation of the observer position for the luminance distance S												
S = 1.0H		+0.2 / -0.2					+0.1 / -0.1					
S = 1.5H		+0.3 / -0.3					+0.2 / -0.3					
S = 2.0H		+0.4 / -0.4					+0.4 / -0.6					
Standard table		-----					BK13					
Correction summand		-----					23.5					
Corrected glare indices referring to 2140 lm total luminous flux												

UGR table

Photometry



Polar diagram



Cone diagram