# DAL-S-LK 101.830.20/DALI





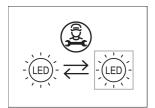


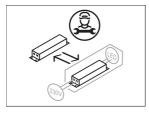






Colours	Article no.	EAN
silver	661042	4043544698599





### Description

- light-head rotates through 355° and swivels through 30° by adjusting screw
- individual optics by standard recessed frame or trimless recessed frame and various front reflectors
- outstanding ease of maintenance
- no UV and thermal emissions
- thermal management with passive cooling
- light-head and heat sink made from die-cast
- main reflector made from plastic
- black anti-glare ring made from polycarbonate for accommodating honeycomb louvre
- diffuser glass pane
- light-head snaps into mounting frame without tools
- connection to ballast via luminaire cable with Mini-Clamp connector
- ballast (LED converter DALI, dimmable) included (external placement)

## Standard options



## Special options







## Lighting data / Norms

Lamps LED Spot / CRI 80 / 3000 K EPREL light sources 992480

L90 B50 50.000 h Lifetime L80 B50 100.000 h

 L80 B20 50.000 h

 System power
 22.0 W

 Luminaire luminous flux
 max. 1580 lm

 System efficiency
 65.00 lm/W

Module efficiency 157.83 lm/W
UGR class ≤16
Beam angle 20°

**Supply voltage** 220 - 240 V / 50 - 60 Hz

Protection class III

Type of protection IP20

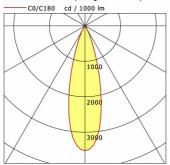
## Dimensions / Weights

Outer diameter82 mmHeight103 mmRecessed depth135 mmDiameter of light head82 mmNet weight0.72 kgGross weight0.75 kg

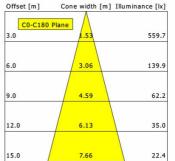
# LTS LOVE TO SHINE

# DAL-S-LK 101.830.20/DALI

Dallton Small - Spotlight Insert (DAL-S-RTQ 11\_CH, 1xLED 22W 830/3000K 1430lm 20 °)



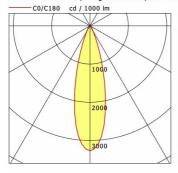
	C0	C90	C180	C270
0°	3523	3523	3523	3523
15°	1631	1631	1631	1631
30°	155	155	155	155
45°	30	30	30	30
60°	6	6	6	6
75°	0	0	0	0
90°	0	0	0	0
	co	i / 1000 l	m	



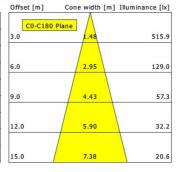
η	LED
Efficiency	65 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	22 W
UGR	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	<10.0
UGR C90/C270	<10.0
CIE Flux Codes	97 100 100 100 100
Ra/CRI	>80

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#### Dallton Small - Spotlight Insert (DAL-S-RTQ 11\_WS-MATT, 1xLED 22W 830/3000K 1420lm 20 °)



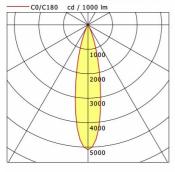
	C0	C90	C180	C270
0°	3270	3270	3270	3270
15°	1430	1430	1430	1430
30°	156	156	156	156
45°	64	64	64	64
60°	36	36	36	36
75°	5	5	5	5
90°	0	0	0	0
	co	1 / 1000	m	



η	LED		
Efficiency	65 lm/V		
Direct/Indirect	↓ 100% / ↑ 0%		
System Power	22 W		
UGR	X=4H, Y=8H		
Reflection factors	70/50/20		
UGR C0/C180	17.9		
UGR C90/C270	17.9		
CIE Flux Codes	89 97 100 100 100		
Ra/CRI	>80		

lm 20.9\

#### Dallton Small - Spotlight Insert (DAL-S-RFR 21, 1xLED 22W 830/3000K 1490lm 20°)

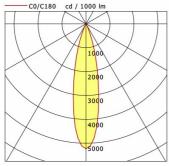


	C0	C90	C180	C270
0°	5108	5108	5108	5108
15°	1640	1640	1640	1640
30°	76	76	76	76
45°	10	10	10	10
60°	1	1	1	1
75°	1	1	1	1
90°	0	0	0	0
	cd / 1000 lm			

Offset [m]	Cone width [m]	Illuminance [lx]
C0-C180	Plane	845.7
6.0	2.43	211.4
6.0	2.43	211.4
9.0	3.64	94.0
12.0	4.86	52.9
15.0	6.07	33.8

η	LED		
Efficiency	68 lm/W		
Direct/Indirect	↓ 100% / ↑ 0%		
System Power	22 W		
UGR	X=4H, Y=8H		
Reflection factors	70/50/20		
UGR C0/C180	<10.0		
UGR C90/C270	<10.0		
CIE Flux Codes	99 100 100 100 100		
Ra/CRI	>80		

## Dallton Small - Spotlight Insert (DAL-S-RFQ 11, 1xLED 22W 830/3000K 1460lm $\,$ 20 °)



	C0	C90	C180	C270
0°	5232	5232	5232	5232
15°	1683	1683	1683	1683
30°	55	55	55	55
45°	11	11	11	11
60°	3	3	3	3
75°	1	1	1	1
90°	0	0	0	0
cd / 1000 lm				

Offset [m]	Cone width [m	] Illuminance [lx]
C0-C180	Plane 1.22	848.8
6.0	2.43	212.2
9.0	3.65	94.3
12.0	4.87	53.1
15.0	6.08	34.0

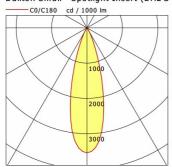
η	LED
Efficiency	67 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	22 W
UGR	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	<10.0
UGR C90/C270	<10.0
CIE Flux Codes	99 100 100 100 100
Ra/CRI	>80

LTS

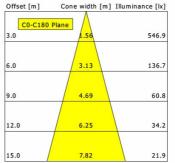
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# DAL-S-LK 101.830.20/DALI

Dallton Small - Spotlight Insert (DAL-S-RTQ 11\_CH-SW, 1xLED 22W 830/3000K 1390lm 20 °)

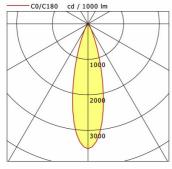


	C0	C90	C180	C270
0°	3541	3541	3541	3541
15°	1694	1694	1694	1694
30°	139	139	139	139
45°	22	22	22	22
60°	3	3	3	3
75°	0	0	0	0
90°	0	0	0	0
cd / 1000 lm				

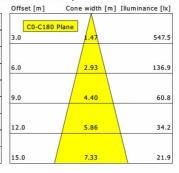


<b>η</b> Efficiency	LED 63 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	22 W
UGR	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	<10.0
UGR C90/C270	<10.0
CIE Flux Codes	98 100 100 100 100
Ra/CRI	>80

Dallton Small - Spotlight Insert (DAL-S-RTQ 11\_SI-MATT, 1xLED 22W 830/3000K 1400lm 20 °)

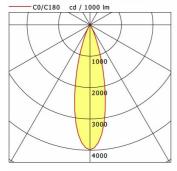


	C0	C90	C180	C270
0°	3520	3520	3520	3520
15°	1522	1522	1522	1522
30°	167	167	167	167
45°	48	48	48	48
60°	14	14	14	14
75°	1	1	1	1
90°	0	0	0	0
	co	1 / 1000	m	



η Efficiency	LEI 64 lm/V		
Direct/Indirect	↓ 100% / ↑ 0%		
System Power	22 W		
UGR	X=4H, Y=8H		
Reflection factors	70/50/20		
UGR C0/C180	13.1		
UGR C90/C270	13.1		
CIE Flux Codes	94 99 100 100 100		
Ra/CRI	>80		

Dallton Small - Spotlight Insert (DAL-S-RTQ 11\_SW-MATT, 1xLED 22W 830/3000K 1120lm 20 °)

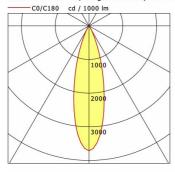


	C0	C90	C180	C270	
0°	3984	3984	3984	3984	
15°	1703	1703	1703	1703	
30°	129	129	129	129	
45°	11	11	11	11	
60°	0	0 0 0 0		0	
75°	0 0 0 0				
90°	0	0	0	0	
	cd / 1000 lm				

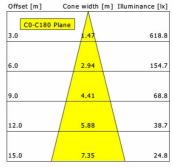
CO-C18	Cone width [m] III	итпапсе [іх
3.0	1.46	495.8
6.0	2.92	124.0
9.0	4.37	55.:
12.0	5.83	31.0
15.0	7.29	19.8

n	LED
Efficiency	51 lm/W
	120700100
Direct/Indirect	↓ 100% / ↑ 0%
System Power	22 W
UGR	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	<10.0
UGR C90/C270	<10.0
CIE Flux Codes	99 100 100 100 100
Ra/CRI	>80

Dallton Small - Spotlight Insert (DAL-S-RTR 21\_CH-SW, 1xLED 22W 830/3000K 1500lm 20 °)



	C0	C90	C180	C270
0°	3713	3713	3713	3713
15°	1640	1640	1640	1640
30°	149	149	149	149
45°	22	22	22	22
60°	0	0	0	0
75°	0	0	0	0
90°	0	0	0	0
	co	1 / 1000	m	



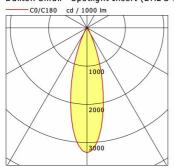
η	LED		
Efficiency	68 lm/W		
Direct/Indirect	↓ 100% / ↑ 0%		
System Power	22 W		
UGR	X=4H, Y=8H		
Reflection factors	70/50/20		
UGR C0/C180	<10.0		
UGR C90/C270	<10.0		
CIE Flux Codes	98 100 100 100 100		
Ra/CRI	>80		

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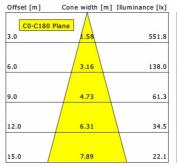
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# DAL-S-LK 101.830.20/DALI

Dallton Small - Spotlight Insert (DAL-S-RTR 21\_SI-MATT, 1xLED 22W 830/3000K 1520lm 20 °)

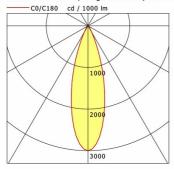


	C0	C90	C180	C270
0°	3268	3268	3268	3268
15°	1593	1593	1593	1593
30°	171	171	171	171
45°	37	37	37	37
60°	6	6	6	6
75°	0	0	0	0
90°	0	0	0	0

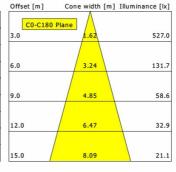


LED
69 lm/W
↓ 100% / ↑ 0%
22 W
X=4H, Y=8H
70/50/20
12.2
12.2
96 100 100 100 100
>80

Dallton Small - Spotlight Insert (DAL-S-RTR 21\_WS-MATT, 1xLED 22W 830/3000K 1580lm 20 °)

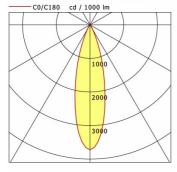


	C0	C90	C180	C270
0°	3002	3002	3002	3002
15°	1513	1513	1513	1513
30°	171	171	171	171
45°	51	51	51	51
60°	23	23	23	23
75°	4	4	4	4
90°	0	0	0	0
	co	1 / 1000	m	

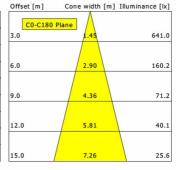


η	LED		
Efficiency	72 lm/W		
Direct/Indirect	↓ 100% / ↑ 0%		
System Power	22 W		
UGR	X=4H, Y=8H		
Reflection factors	70/50/2		
UGR C0/C180	17.2		
UGR C90/C270	17.2		
CIE Flux Codes	92 98 100 100 100		
Ra/CRI	>80		

Dallton Small - Spotlight Insert (DAL-S-RTR 21\_CH, 1xLED 22W 830/3000K 1550lm 20 °)

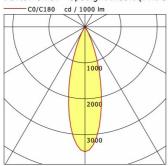


	C0	C90	C180	C270	
0°	3722	3722	3722	3722	
15°	1616	1616	1616	1616	
30°	152	152	152	152	
45°	26	26	26	26	
60°	0	0	0	0	
75°	0	0	0	0	
90°	0	0	0	0	
	cd / 1000 lm				



η	LED 71 lm/W	
Efficiency		
Direct/Indirect	↓ 100% / ↑ 0%	
System Power	22 W	
UGR	X=4H, Y=8H	
Reflection factors	70/50/20	
UGR C0/C180	<10.0	
UGR C90/C270	<10.0	
CIE Flux Codes	98 100 100 100 100	
Ra/CRI	>80	

Dallton Small - Spotlight Insert (DAL-S-RTR 21\_SW-MATT, 1xLED 22W 830/3000K 1330lm 20 °)



	CO	C90	C180	C270
0°	3475	3475	3475	3475
15°	1714	1714	1714	1714
30°	149	149	149	149
45°	12	12	12	12
60°	0	0	0	0
75°	0	0	0	0
90°	0	0	0	0
	co	i / 1000 I	m	

Offset [m]	Cone width [m] II	luminance [lx]
C0-C180	Plane	
3.0	<mark>d.59</mark>	513.6
6.0	3.18	128.4
9.0	4.77	57.1
12.0	6.37	32.1
15.0	7.96	20.5

η	LEC
Efficiency	61 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	22 W
UGR	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	<10.0
UGR C90/C270	<10.0
CIE Flux Codes	99 100 100 100 100
Ra/CRI	>80

LTS

## Recessed Spotlights · Dallton Small System

# DAL-S-LK 101.830.20/DALI

## Accessories





DAL-S-ZBW 11.21 honeycomb louvre



**ZB-OR DONGLE**Organic Response IR dongle kit



**ZB-OR GATEWAY**Organic Response IoT Gateway Cascade Series



**ZB-OR-R SENSOR**Organic Response sensor for recessed mounting