# DAL-S-LK 100.840.20/DALI





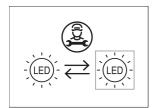


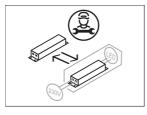






Colours	Article no.	EAN
silver	661030	4043544698476





### 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 / 4000 K L90 B50 50.000 h Lifetime L80 B50 100.000 h L80 B20 50.000 h

 System power
 15.0 W

 Luminaire luminous flux
 max. 1200 lm

 System efficiency
 72.66 lm/W

 Module efficiency
 160.65 lm/W

UGR class ≤16 Beam angle 20°

Supply voltage 220 - 240 V / 50 - 60 Hz

Protection class III

Type of protection IP20

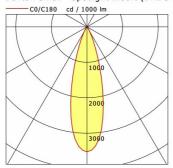
#### Dimensions / Weights

Outer diameter82 mmHeight103 mmRecessed depth135 mmDiameter of light head82 mmNet weight0.67 kgGross weight0.71 kg

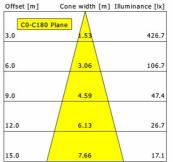


# DAL-S-LK 100.840.20/DALI

Dallton Small - Spotlight Insert (DAL-S-RTQ 11\_CH, 1xLED 15W 840/4000K 1090lm 20 °)

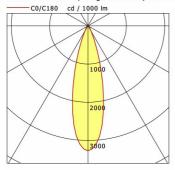


	C0	C90	C180	C270
0°	3523	3523	3523	3523
15°	1631	1631	1631	1631
30°	155	155	155	155
45°	30	30	30	30
60°	6	6	6	6
75°	0	0	0	0
90°	0	0	0	0
	cd / 1000 lm			

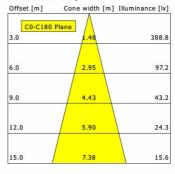


<b>η</b> Efficiency	LED 73 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	15 W
UGR	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	<10.0
UGR C90/C270	<10.0
CIE Flux Codes	97 100 100 100 100
Ra/CRI	>80
Ra/CRI	>00

Dallton Small - Spotlight Insert (DAL-S-RTQ 11\_WS-MATT, 1xLED 15W 840/4000K 1070lm 20 °)

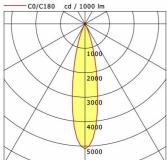


	C0	C90	C180	C270
0°	3270	3270	3270	3270
15°	1430	1430	1430	1430
30°	156	156	156	156
45°	64	64	64	64
60°	36	36	36	36
75°	5	5	5	5
90°	0	0	0	0
	co	1 / 1000	m	

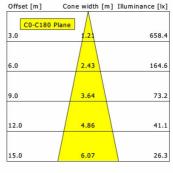


η Efficiency	LED 71 lm/W	
Direct/Indirect	1 100% / ↑ 0%	
System Power	15 W	
UGR	X=4H, Y=8H	
Reflection factors	70/50/20	
UGR C0/C180	16.9	
UGR C90/C270	16.9	
CIE Flux Codes	89 97 100 100 100	
Ra/CRI	>80	

Dallton Small - Spotlight Insert (DAL-S-RFR 21, 1xLED 15W 840/4000K 1160lm  $\,$  20  $^{\rm o}$ )

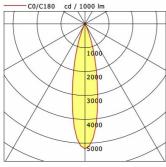


	C0	C90	C180	C270		
0°	5108	5108	5108	5108		
15°	1640 1640 1640 1640					
30°	76	76	76	76		
45°	10	10	10	10		
60°	60° 1 1 1 1					
75°	75° 1 1 1 1					
90°	0	0	0	0		
	cd / 1000 lm					



η	LED		
Efficiency	78 lm/W		
Direct/Indirect	↓ 100% / ↑ 0%		
System Power	15 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 15W 840/4000K 1100lm  $\,$  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
	co	d / 1000 I	m	

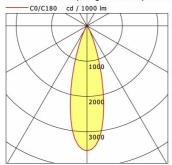
Offset [m]	Cone width [m]	Illuminance [lx]
C0-C180		
3.0	1.22	639.5
6.0	2.43	159.9
9.0	3.65	71.1
12.0	4.87	40.0
15.0	6.08	25.6

η	LED
Efficiency	74 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	15 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

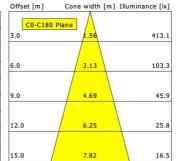
LTS

# DAL-S-LK 100.840.20/DALI

Dallton Small - Spotlight Insert (DAL-S-RTQ 11\_CH-SW, 1xLED 15W 840/4000K 1050lm 20 °)

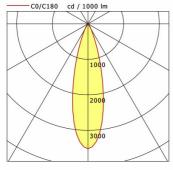


	C0	C90	C180	C270		
0°	3541	3541	3541	3541		
15°	1694	1694	1694	1694		
30°	139	139	139	139		
45°	22	22	22	22		
60°	0° 3 3 3 3					
75°	75° 0 0 0 0					
90°	0	0	0	0		
	cd / 1000 lm					

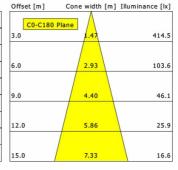


LED
70 lm/W
↓ 100% / ↑ 0%
15 W
X=4H, Y=8H
70/50/20
<10.0
<10.0
98 100 100 100 100
>80

#### Dallton Small - Spotlight Insert (DAL-S-RTQ 11\_SI-MATT, 1xLED 15W 840/4000K 1060lm 20 °)

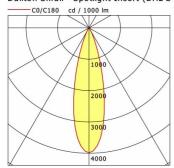


	C0	C90	C180	C270
0°	3520	3520	3520	3520
15°	1522	1522	1522	1522
30°	167	167	167	167
45°	48	48	48	48
60°	14	14	14	14
75°	1	1	1	1
90°	0	0	0	0



n Efficiency Direct/Indirect System Power	LED 71 lm/W ↓ 100% / ↑ 0% 15 W
UGR	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	12.1
UGR C90/C270	12.1
CIE Flux Codes Ra/CRI	94 99 100 100 100 >80

Dallton Small - Spotlight Insert (DAL-S-RTQ 11\_SW-MATT, 1xLED 15W 840/4000K 840lm 20 °)

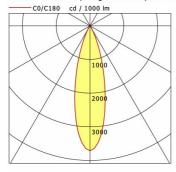


	C0	C90	C180	C270
0°	3984	3984	3984	3984
15°	1703	1703	1703	1703
30°	129	129	129	129
45°	11	11	11	11
60°	0	0	0	0
75°	0	0	0	0
90°	0	0	0	0
	cd / 1000 lm			

Offset [m]	Cone width [m] Illi	uminance [lx]
C0-C180	Plane	
3.0	1 <mark>.46</mark>	371.9
upmen.		
6.0	2.92	93.0
9.0	4.37	41.3
12.0	5.83	23.2
15.0	7.29	14.9

η	LED 56 lm/W	
Efficiency		
Direct/Indirect	↓ 100% / ↑ 0%	
System Power		
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 15W 840/4000K 1140lm 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					
75°	0	0	0	0	
90°	0	0	0	0	
cd / 1000 lm					

Offset [m]	Cone width [m]	Illuminance [lx]
C0-C18		
3.0	1.47	470.3
6.0	2.94	117.6
6.0	2.94	117.6
9.0	4.41	52.3
12.0	5.88	29.4
15.0	7.35	18.8

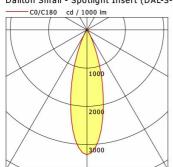
η	LED
Efficiency	76 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	15 W
UGR	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	<10.0
UGR C90/C270	<10.0
CIE Flux Codes	98 100 100 100 100
Ra/CRI	>80

LTS

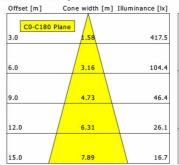
# LTS LOVE TO SHINE

# DAL-S-LK 100.840.20/DALI

Dallton Small - Spotlight Insert (DAL-S-RTR 21\_SI-MATT, 1xLED 15W 840/4000K 1150lm 20 °)

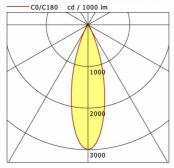


	C0	C90	C180	C270
0°	3268	3268	3268	3268
15°	1593	1593	1593	1593
30°	171	171	171	171
45°	37	37	37	37
60°	6	6	6	6
75°	0	0	0	0
90°	0	0	0	0
	cd / 1000 lm			

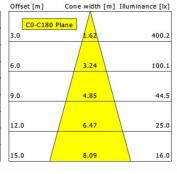


<b>n</b> Efficiency	LED 77 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	15 W
UGR	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	11.2
UGR C90/C270	11.2
CIE Flux Codes	96 100 100 100 100
Ra/CRI	>80

Dallton Small - Spotlight Insert (DAL-S-RTR 21\_WS-MATT, 1xLED 15W 840/4000K 1200lm 20 °)

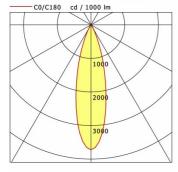


	C0	C90	C180	C270
0°	3002	3002	3002	3002
15°	1513	1513	1513	1513
30°	171	171	171	171
45°	51	51	51	51
60°	23	23	23	23
75°	4	4	4	4
90°	0	0	0	0

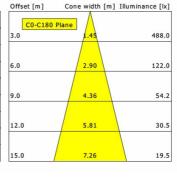


η	LED
Efficiency	80 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	15 W
UGR	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	16.3
UGR C90/C270	16.3
CIE Flux Codes	92 98 100 100 100
Ra/CRI	>80

Dallton Small - Spotlight Insert (DAL-S-RTR 21\_CH, 1xLED 15W 840/4000K 1180lm 20 °)

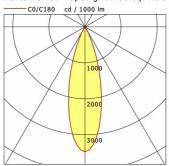


	C0	C90	C180	C270
0°	3722	3722	3722	3722
15°	1616	1616	1616	1616
30°	152	152	152	152
45°	26	26	26	26
60°	0	0	0	0
75°	0	0	0	0
90°	0	0	0	0
	cd / 1000 lm			



η	LED		
Efficiency	79 lm/W ↓ 100% / ↑ 0%		
Direct/Indirect			
System Power	15 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 15W 840/4000K 1010lm 20 °)



	C0	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
cd / 1000 lm				

Offset [m]	Cone width [m] Ill	uminance [lx]
C0-C180	Plane 1.59	390.0
3.0	1.59	390.0
6.0	3.18	97.5
9.0	4.77	43.3
12.0	6.37	24.4
15.0	7.96	15.6

η	LED
Efficiency	67 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	15 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 100.840.20/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