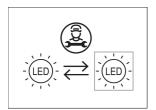
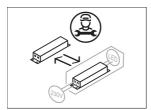
DAL-S-LK 100.830.20



Colours	Article no.	EAN
silver	661023	4043544698407















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) 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 15.0 W
Luminaire luminous flux max. 1150 lm
System efficiency 74.00 lm/W
Module efficiency 157.83 lm/W

UGR class ≤16 Beam angle 20°

Supply voltage 220 - 240 V / 50 - 60 Hz

 $\begin{array}{ccc} \textbf{Protection class} & & ||| \\ \textbf{Type of protection} & & || \textbf{P20} \\ \end{array}$

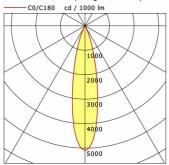
Dimensions / Weights

Outer diameter82 mmHeight103 mmRecessed depth135 mmDiameter of light head82 mmNet weight0.65 kgGross weight0.69 kg

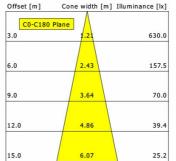
LTS LOVE TO SHINE

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Dallton Small - Spotlight Insert (DAL-S-RFR 21, 1xLED 15W 830/3000K 1110lm 20 °)



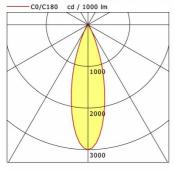
	C0	C90	C180	C270
0°	5108	5108	5108	5108
15°	1640	1640	1640	1640
30°	76	76	76	76
45°	10	10	10	10
60°	1	1	1	1
75°	1	1	1	1
90°	0	0	0	0
	cd / 1000 lm			

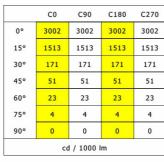


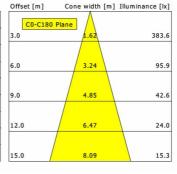
η	LED
Efficiency	74 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	15 W
UGR	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	<10.0
UGR C90/C270	<10.0
CIE Flux Codes	99 100 100 100 100
Ra/CRI	>80

LTS

Dallton Small - Spotlight Insert (DAL-S-RTR 21_WS-MATT, 1xLED 15W 830/3000K 1150lm 20 °)

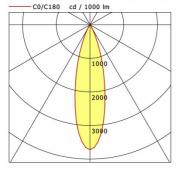




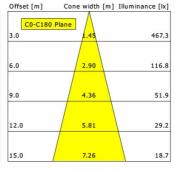


η	LEC		
Efficiency	77 lm/W		
Direct/Indirect	↓ 100% / ↑ 0%		
System Power	15 W		
UGR	X=4H, Y=8H		
Reflection factors	70/50/20		
UGR C0/C180	16.		
UGR C90/C270	16.3		
CIE Flux Codes	92 98 100 100 100		
Ra/CRI	>80		

Dallton Small - Spotlight Insert (DAL-S-RTR 21_CH, 1xLED 15W 830/3000K 1130lm 20 °)

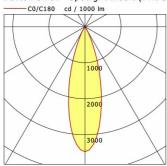


	C0	C90	C180	C270
0°	3722	3722	3722	3722
15°	1616	1616	1616	1616
30°	152	152	152	152
45°	26	26	26	26
60°	0	0	0	0
75°	0	0	0	0
90°	0	0	0	0
	co	1 / 1000 I	m	



η	LEC		
Efficiency	75 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		

Dallton Small - Spotlight Insert (DAL-S-RTR 21_SW-MATT, 1xLED 15W 830/3000K 970lm 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

Offset [m]	Cone width [m] Illu	minance [lx]
C0-C18	0 Plane	
3.0	1.59	374.5
6.0	3.18	93.6
9.0	4.77	41.6
12.0	6.37	23.4
15.0	7.96	15.0

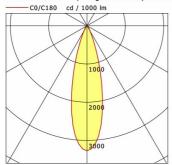
η	LED
Efficiency	65 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	15 W
UGR	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	<10.0
UGR C90/C270	<10.0
CIE Flux Codes	99 100 100 100 100
Ra/CRI	>80

LTS

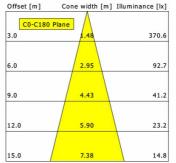


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Dallton Small - Spotlight Insert (DAL-S-RTQ 11_WS-MATT, 1xLED 15W 830/3000K 1020lm 20 °)

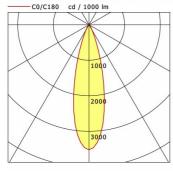


	C0	C90	C180	C270
0°	3270	3270	3270	3270
15°	1430	1430	1430	1430
30°	156	156	156	156
45°	64	64	64	64
60°	36	36	36	36
75°	5	5	5	5
90°	0	0	0	0
	cd / 1000 lm			

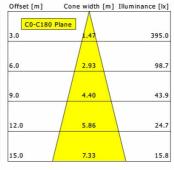


η	LED
Efficiency	68 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	15 W
UGR	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	16.7
UGR C90/C270	16.7
CIE Flux Codes	89 97 100 100 100
Ra/CRI	>80

Dallton Small - Spotlight Insert (DAL-S-RTQ 11_SI-MATT, 1xLED 15W 830/3000K 1010lm 20 °)

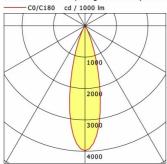


	C0	C90	C180	C270
0°	3520	3520	3520	3520
15°	1522	1522	1522	1522
30°	167	167	167	167
45°	48	48	48	48
60°	14	14	14	14
75°	1	1	1	1
90°	0	0	0	0
	co	1 / 1000	m	



η	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	11.9
UGR C90/C270	11.9
CIE Flux Codes	94 99 100 100 100
Ra/CRI	>80

Dallton Small - Spotlight Insert (DAL-S-RTQ 11_SW-MATT, 1xLED 15W 830/3000K 800lm 20 °)

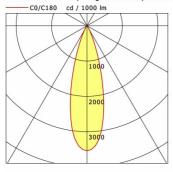


	C0	C90	C180	C270
0°	3984	3984	3984	3984
15°	1703	1703	1703	1703
30°	129	129	129	129
45°	11	11	11	11
60°	0	0	0	0
75°	0	0	0	0
90°	0	0	0	0

Offset [m]	Cone width [m] II	luminance [lx]
C0-C180	Plane	
3.0	1.46	354.2
6.0	2.92	88.5
9.0	4.37	39.4
12.0	5.83	22.1
15.0	7.29	14.2

η	LED 53 lm/W		
Efficiency			
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-RTQ 11_CH-SW, 1xLED 15W 830/3000K 1000lm 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

Offset [m]	Cone width [m] Ill	uminance [lx]
C0-C180		
3.0	1.56	393.4
6.0	3.13	98.4
9.0	4.69	43.7
12.0	6.25	24.6
15.0	7.82	15.7

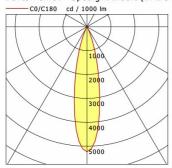
η	LED
Efficiency	67 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	15 W
UGR	X=4H, Y=8H
Reflection factors 70/50/	
UGR C0/C180	<10.0
UGR C90/C270	<10.0
CIE Flux Codes	98 100 100 100 100
Ra/CRI	>80

LTS

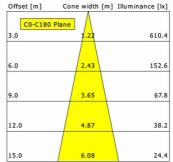


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Dallton Small - Spotlight Insert (DAL-S-RFQ 11, 1xLED 15W 830/3000K 1050lm 20 °)

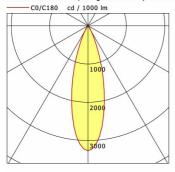


	C0	C90	C180	C270
0°	5232	5232	5232	5232
15°	1683	1683	1683	1683
30°	55	55	55	55
45°	11	11	11	11
60°	3	3	3	3
75°	1	1	1	1
90°	0	0	0	0
	cc	/ 1000 I	m	

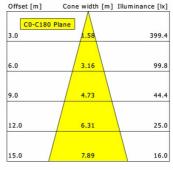


η	LED
Efficiency	70 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	15 W
UGR	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	<10.0
UGR C90/C270	<10.0
CIE Flux Codes	99 100 100 100 100
Ra/CRI	>80

Dallton Small - Spotlight Insert (DAL-S-RTR 21_SI-MATT, 1xLED 15W 830/3000K 1100lm 20 °)

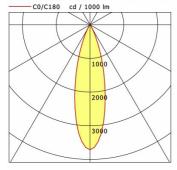


	C0	C90	C180	C270
0°	3268	3268	3268	3268
15°	1593	1593	1593	1593
30°	171	171	171	171
45°	37	37	37	37
60°	6	6	6	6
75°	0	0	0	0
90°	0	0	0	0
	co	1 / 1000	m	

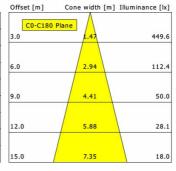


η	LE		
Efficiency	73 lm/W		
Direct/Indirect	↓ 100% / ↑ 0%		
System Power	15 V		
UGR	X=4H, Y=8H		
Reflection factors 70/50			
UGR C0/C180	11.1		
UGR C90/C270	11.1		
CIE Flux Codes	96 100 100 100 100		
Ra/CRI	>80		

Dallton Small - Spotlight Insert (DAL-S-RTR 21_CH-SW, 1xLED 15W 830/3000K 1090lm 20 °)



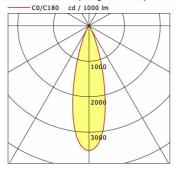
C180 C2	2	70
3713 37	37	13
1640 16	16	40
149 14	14	49
22 2	2	2
0 0	(0
0 0	(0
0 0	(0
00	0 00 lm	1000 C



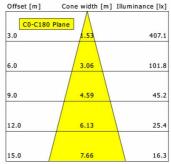
η	LED 73 lm/W ↓ 100% / ↑ 0% 15 W	
Efficiency		
Direct/Indirect		
System Power		
UGR	X=4H, Y=8H	
Reflection factors	70/50/20	
UGR C0/C180	<10.0	
UGR C90/C270	<10.0	
CIE Flux Codes	98 100 100 100 100	
Ra/CRI	>80	

ITS

Dallton Small - Spotlight Insert (DAL-S-RTQ 11_CH, 1xLED 15W 830/3000K 1040lm 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				



η	LED		
Efficiency	69 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		

LTS

Recessed Spotlights · Dallton Small System

DAL-S-LK 100.830.20

Accessories



DAL-S-ZBW 11.21 honeycomb louvre

