



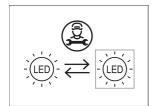


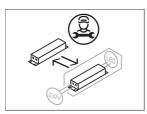






Colours	Article no.	EAN
silver	661026	4043544698438





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

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 power15.0 WLuminaire luminous fluxmax. 1070 lmSystem efficiency54.66 lm/WModule efficiency157.83 lm/WUGR class≤16Beam angle 40°

 Beam angle
 40°

 Supply voltage
 220 - 240 V / 50 - 60 Hz

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

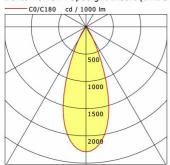
Dimensions / Weights

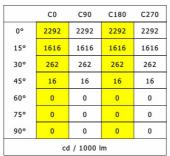
Outer diameter82 mmHeight103 mmRecessed depth135 mmDiameter of light head82 mmNet weight0.67 kgGross weight0.71 kg

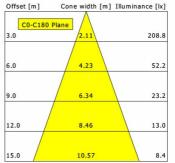
LTS LOVE TO SHINE

DAL-S-LK 100.830.40/DALI

Dallton Small - Spotlight Insert (DAL-S-RTR 21_SW-MATT, 1xLED 15W 830/3000K 820lm 40 °)



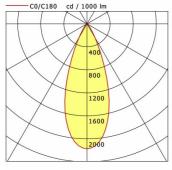


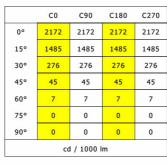


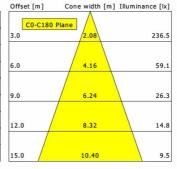
η	LED
Efficiency	55 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	15 W
UGR	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	<10.0
UGR C90/C270	<10.0
CIE Flux Codes	99 100 100 100 100
Ra/CRI	>80

LTS

Dallton Small - Spotlight Insert (DAL-S-RTR 21_SI-MATT, 1xLED 15W 830/3000K 980lm 40 °)

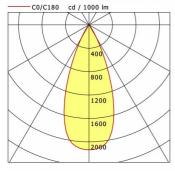




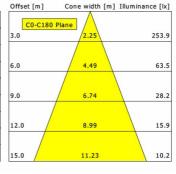


η	LEC
Efficiency	65 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	15 W
UGR	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	13.0
UGR C90/C270	13.0
CIE Flux Codes	95 100 100 100 100
Ra/CRI	>80

Dallton Small - Spotlight Insert (DAL-S-RFR 21, 1xLED 15W 830/3000K 1070lm 40 °)

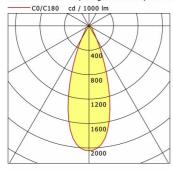


	C0	C90	C180	C270
0°	2136	2136	2136	2136
15°	1635	1635	1635	1635
30°	257	257	257	257
45°	12	12	12	12
60°	0	0	0	0
75°	0	0	0	0
90°	0	0	0	0
	co	i / 1000 I	m	



η	LED		
Efficiency	71 lm/V		
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_WS-MATT, 1xLED 15W 830/3000K 940lm 40 °)

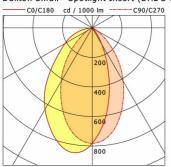


	C0	C90	C180	C270
0°	2046	2046	2046	2046
15°	1319	1319	1319	1319
30°	247	247	247	247
45°	77	77	77	77
60°	43	43	43	43
75°	6	6	6	6
90°	0	0	0	0
	cd / 1000 lm			

Offset [m]	Cone width [m] Illu	ıminance [lx]
C0-C180	Plane	
3.0	1.96	213.7
6.0	3.91	53.4
9.0	5.87	23.7
12.0	7.82	13.4
15.0	9.78	8.5

η	LED	
Efficiency	63 lm/W	
Direct/Indirect	↓ 100% / ↑ 0%	
System Power	15 W	
UGR	X=4H, Y=8H	
Reflection factors	70/50/20	
UGR C0/C180	17.9	
UGR C90/C270	17.9	
CIE Flux Codes	86 96 100 100 100	
Ra/CRI	>80	

Dallton Small - Spotlight Insert (DAL-S-RWR 21, 1xLED 15W 830/3000K 610lm 40 °)



	C0	C90	C180	C270
0°	782	782	782	782
15°	447	665	825	665
30°	129	417	637	417
45°	17	179	389	179
60°	3	30	211	30
75°	1	2	95	2
90°	0	0	0	0
	cc	1 / 1000	m	

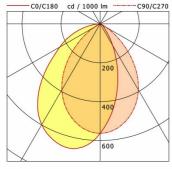
LDC unsuitable for cone representation.
Asymetric LDC.



η	LED
Efficiency	41 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	21.9
CIE Flux Codes	70 91 98 100 100
Ra/CRI	>80

LTS

Dallton Small - Spotlight Insert (DAL-S-RWQ 11, 1xLED 15W 830/3000K 480lm 40 $^{\circ}$)



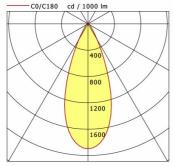
	C0	C90	C180	C270
0°	563	563	563	563
15°	341	516	659	516
30°	129	392	598	392
45°	32	202	429	202
60°	11	35	239	35
75°	3	3	99	3
90°	0	0	0	0
	cd / 1000 lm			

LDC unsuitable for cone representation.
Asymetric LDC.

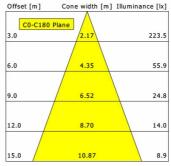
32 lm/W ↓ 100% / ↑ 0%
↓ 100% / ↑ 0%
15 W
X=4H, Y=8H
70/50/20
<10.0
21.4
62 89 98 100 100
>80

TS

Dallton Small - Spotlight Insert (DAL-S-RTR 21_WS-MATT, 1xLED 15W 830/3000K 1060lm $\,$ 40 °)



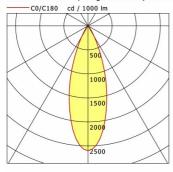
	C0	C90	C180	C270
0°	1898	1898	1898	1898
15°	1362	1362	1362	1362
30°	276	276	276	276
45°	64	64	64	64
60°	29	29	29	29
75°	5	5	5	5
90°	0	0	0	0
	cd	i / 1000 I	m	



η	LED	
Efficiency	71 lm/W	
Direct/Indirect	ect ↓ 100% / ↑ 0	
System Power	15 W	
UGR	X=4H, Y=8H	
Reflection factors	70/50/20	
UGR C0/C180	17.7	
UGR C90/C270	17.7	
CIE Flux Codes	89 97 100 100 100	
Ra/CRI	>80	

ITS

Dallton Small - Spotlight Insert (DAL-S-RTR 21_CH, 1xLED 15W 830/3000K 1040lm 40 °)



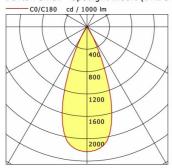
	C0	C90	C180	C270
0°	2600	2600	2600	2600
15°	1510	1510	1510	1510
30°	261	261	261	261
45°	32	32	32	32
60°	0	0	0	0
75°	0	0	0	0
90°	0	0	0	0
	co	i / 1000 I	m	

Offset [m]	Cone width [m] Illi	uminance [lx]
C0-C180	Plane	
3.0	1.84	300.5
		997
6.0	3.68	75.1
9.0	5.52	33.4
12.0	7.36	18.8
15.0	9.20	12.0

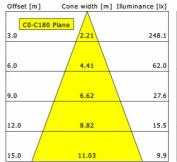
η	LED
Efficiency	69 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	15 W
UGR	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	11.4
UGR C90/C270	11.4
CIE Flux Codes	97 100 100 100 100
Ra/CRI	>80



Dallton Small - Spotlight Insert (DAL-S-RFQ 11, 1xLED 15W 830/3000K 1000lm 40°)

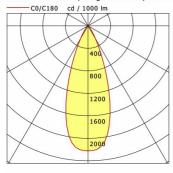


	C0	C90	C180	C270
0°	2233	2233	2233	2233
15°	1707	1707	1707	1707
30°	210	210	210	210
45°	14	14	14	14
60°	3	3	3	3
75°	0	0	0	0
90°	0	0	0	0

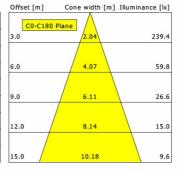


η	LED
Efficiency	67 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	15 W
UGR	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	<10.0
UGR C90/C270	<10.0
CIE Flux Codes	98 100 100 100 100
Ra/CRI	>80

Dallton Small - Spotlight Insert (DAL-S-RTQ 11_CH, 1xLED 15W 830/3000K 970lm 40 °)

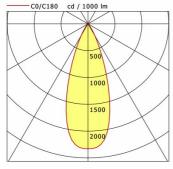


		C0	C90	C180	C270
Г	0°	2221	2221	2221	2221
	15°	1520	1520	1520	1520
	30°	268	268	268	268
	45°	39	39	39	39
	60°	6	6	6	6
	75°	0	0	0	0
	90°	0	0	0	0
		cc	1 / 1000 I	m	
L		CC	1 / 1000 1	m	

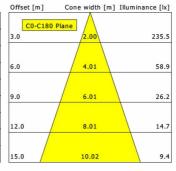


η	LE		
Efficiency	65 lm/W		
Direct/Indirect	↓ 100% / ↑ 0%		
System Power	15 W		
UGR	X=4H, Y=8H		
Reflection factors	70/50/20		
UGR C0/C180	11.1		
UGR C90/C270	11.1		
CIE Flux Codes	96 100 100 100 100		
Ra/CRI	>80		

Dallton Small - Spotlight Insert (DAL-S-RTQ 11_CH-SW, 1xLED 15W 830/3000K 910lm 40 °)

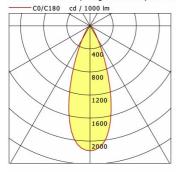


	C0	C90	C180	C270
0°	2329	2329	2329	2329
15°	1569	1569	1569	1569
30°	254	254	254	254
45°	31	31	31	31
60°	4	4	4	4
75°	0	0	0	0
90°	0	0	0	0
	co	i / 1000 I	m	



η	LEC		
Efficiency	61 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		

Dallton Small - Spotlight Insert (DAL-S-RTQ 11_SI-MATT, 1xLED 15W 830/3000K 930lm 40 °)



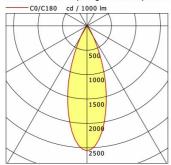
	C0	C90	C180	C270	
0°	2168	2168	2168	2168	
15°	1417	1417	1417	1417	
30°	273	273	273	273	
45°	61	61	61	61	
60°	16	16	16	16	
75°	1	1	1	1	
90°	0	0	0	0	
	cd / 1000 lm				

Offset [m]	Cone width [m] Illu	ıminance [lx]
C0-C180	Plane 1.98	224.0
3.0	/1.98	224.0
6.0	3.96	56.0
9.0	5.94	24.9
12.0	7.92	14.0
15.0	9.90	9.0

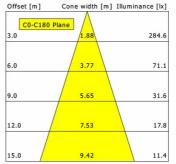
η	LED	
Efficiency	62 lm/W	
Direct/Indirect	↓ 100% / ↑ 0%	
System Power	15 W	
UGR	X=4H, Y=8H	
Reflection factors	70/50/20	
UGR C0/C180	13.5	
UGR C90/C270	13.5	
CIE Flux Codes	92 99 100 100 100	
Ra/CRI	>80	



Dallton Small - Spotlight Insert (DAL-S-RTR 21_CH-SW, 1xLED 15W 830/3000K 1000lm 40 °)



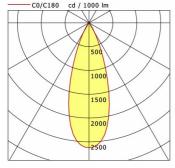
561 528 261 28	2561 1528 261 28	2561 1528 261 28	2561 1528 261 28
261	261	261	261
28	28	28	28
		1	20
0	0	0	0
0	0	0	0
0	0	0	0
	0		0 0 0

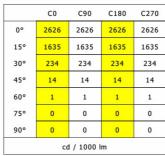


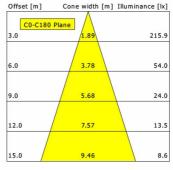
LED
67 lm/W
↓ 100% / ↑ 0%
15 W
X=4H, Y=8H
70/50/20
11.0
11.0
98 100 100 100 100
>80

LTS

Dallton Small - Spotlight Insert (DAL-S-RTQ 11_SW-MATT, 1xLED 15W 830/3000K 740lm 40 °)







η	LED	
Efficiency	49 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	99 100 100 100 100	
Ra/CRI	>80	

Recessed Spotlights · Dallton Small System

DAL-S-LK 100.830.40/DALI

Accessories





DAL-S-ZBW 11.21 honeycomb louvre



ZB-OR DONGLEOrganic Response IR dongle kit



ZB-OR GATEWAYOrganic Response IoT Gateway Cascade Series



ZB-OR-R SENSOROrganic Response sensor for recessed mounting