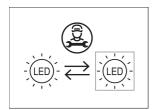
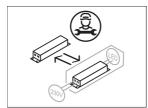


Colours	Article no.	EAN
silver	661051	4043544698681















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

L80 B50 100.000 h L80 B20 50.000 h

 System power
 22.0 W

 Luminaire luminous flux
 max. 1420 lm

 System efficiency
 53.18 lm/W

 Module efficiency
 160.65 lm/W

 UGR class
 ≤22

 Beam angle
 50°

 Supply voltage
 220 - 240 V / 50 - 60 Hz

Protection class

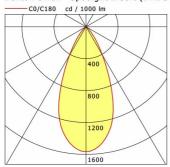
Type of protection IP20

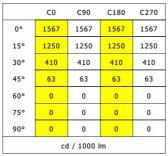
Dimensions / Weights

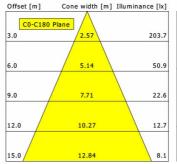
Outer diameter82 mmHeight103 mmRecessed depth135 mmDiameter of light head82 mmNet weight0.66 kgGross weight0.70 kg



Dallton Small - Spotlight Insert (DAL-S-RTR 21_SW-MATT, 1xLED 22W 840/4000K 1170lm 50 °)

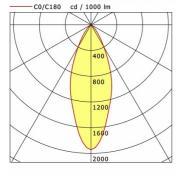




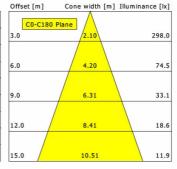


n	LED
Efficiency	53 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	22 W
UGR	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	16.1
UGR C90/C270	16.1
CIE Flux Codes	96 100 100 100 100
Ra/CRI	>80

Dallton Small - Spotlight Insert (DAL-S-RTR 21_CH, 1xLED 22W 840/4000K 1380lm 50 °)

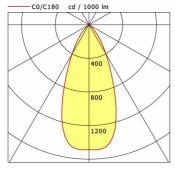


	C0	C90	C180	C270
0°	1944	1944	1944	1944
15°	1187	1187	1187	1187
30°	397	397	397	397
45°	71	71	71	71
60°	0	0	0	0
75°	0	0	0	0
90°	0	0	0	0
	co	1 / 1000	m	

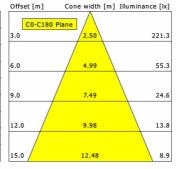


η	LED		
Efficiency	63 lm/W ↓ 100% / ↑ 0%		
Direct/Indirect			
System Power	22 W		
UGR	X=4H, Y=8H		
Reflection factors	70/50/20		
UGR C0/C180	16.9		
UGR C90/C270	16.9		
CIE Flux Codes	95 100 100 100 100		
Ra/CRI	>80		

Dallton Small - Spotlight Insert (DAL-S-RTQ 11_CH, 1xLED 22W 840/4000K 1340lm 50 °)

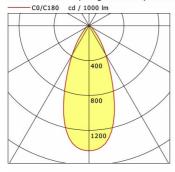


	C0	C90	C180	C270
0°	1486	1486	1486	1486
15°	1225	1225	1225	1225
30°	400	400	400	400
45°	75	75	75	75
60°	7	7	7	7
75°	0	0	0	0
90°	0	0	0	0
	cc	i / 1000 I	m	

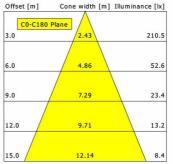


η	LED		
Efficiency	61 lm/W		
Direct/Indirect	↓ 100% / ↑ 0%		
System Power	22 W		
UGR	X=4H, Y=8H		
Reflection factors	70/50/20		
UGR C0/C180	16.1		
UGR C90/C270	16.1		
CIE Flux Codes	93 100 100 100 100		
Ra/CRI	>80		

Dallton Small - Spotlight Insert (DAL-S-RTQ 11_WS-MATT, 1xLED 22W 840/4000K 1320lm 50 °)



	C0	C90	C180	C270
0°	1435	1435	1435	1435
15°	1106	1106	1106	1106
30°	383	383	383	383
45°	88	88	88	88
60°	36	36	36	36
75°	6	6	6	6
90°	0	0	0	0

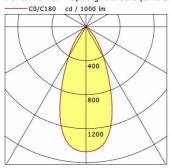


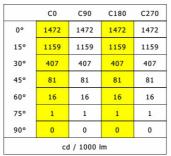
η	LED
Efficiency	60 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	22 W
UGR	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	19.0
UGR C90/C270	19.0
CIE Flux Codes	87 97 100 100 100
Ra/CRI	>80

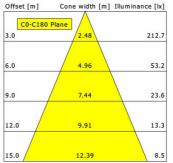
LTS



Dallton Small - Spotlight Insert (DAL-S-RTQ 11_SI-MATT, 1xLED 22W 840/4000K 1300lm 50 °)

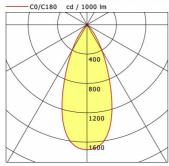




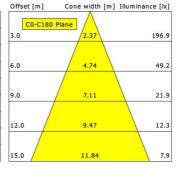


900	
η	LED
Efficiency	59 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	22 W
UGR	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	16.8
UGR C90/C270	16.8
CIE Flux Codes	91 99 100 100 100
Ra/CRI	>80

Dallton Small - Spotlight Insert (DAL-S-RTQ 11_SW-MATT, 1xLED 22W 840/4000K 1040lm 50 °)

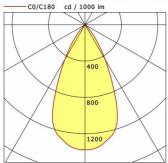


	C0	C90	C180	C270
0°	1704	1704	1704	1704
15°	1295	1295	1295	1295
30°	407	407	407	407
45°	46	46	46	46
60°	1	1	1	1
75°	0	0	0	0
90°	0	0	0	0
	co	1 / 1000 I	m	

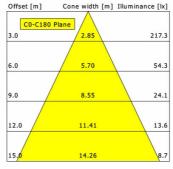


η	LEC		
Efficiency	47 lm/W		
Direct/Indirect	↓ 100% / ↑ 0%		
System Power	22 W		
UGR	X=4H, Y=8H		
Reflection factors	70/50/20 14.0		
UGR C0/C180			
UGR C90/C270	14.0		
CIE Flux Codes	97 100 100 100 100		
Ra/CRI	>80		

Dallton Small - Spotlight Insert (DAL-S-RFQ 11, 1xLED 22W 840/4000K 1420lm 50 °)

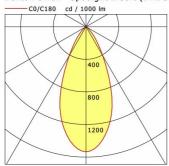


	C0	C90	C180	C270	
0°	1378	1378	1378	1378	
15°	1230	1230	1230	1230	
30°	443	443	443	443	
45°	46	46	46	46	
60°	2	2	2	2	
75°	0	0	0	0	
90°	0	0	0	0	
	cd / 1000 lm				

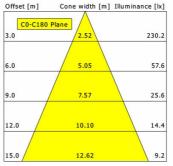


η	LEI	
Efficiency	65 lm/W	
Direct/Indirect	↓ 100% / ↑ 0%	
System Power	22 W	
UGR	X=4H, Y=8H	
Reflection factors	70/50/20 15.3	
UGR C0/C180		
UGR C90/C270	15.3	
CIE Flux Codes	97 100 100 100 100	
Ra/CRI	>80	

Dallton Small - Spotlight Insert (DAL-S-RTR 21_SI-MATT, 1xLED 22W 840/4000K 1350lm 50 °)



	C0	C90	C180	C270
0°	1535	1535	1535	1535
15°	1169	1169	1169	1169
30°	407	407	407	407
45°	83	83	83	83
60°	6	6	6	6
75°	0	0	0	0
90°	0	0	0	0

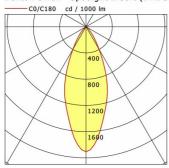


η	LED
Efficiency	61 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	22 W
UGR	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	17.6
UGR C90/C270	17.6
CIE Flux Codes	93 100 100 100 100
Ra/CRI	>80

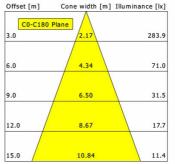
LTS



Dallton Small - Spotlight Insert (DAL-S-RTR 21_CH-SW, 1xLED 22W 840/4000K 1340lm 50 °)



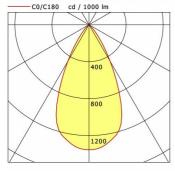
	C0	C90	C180	C270
0°	1907	1907	1907	1907
15°	1203	1203	1203	1203
30°	397	397	397	397
45°	68	68	68	68
60°	0	0	0	0
75°	0	0	0	0
90°	0	0	0	0
	cd / 1000 lm			



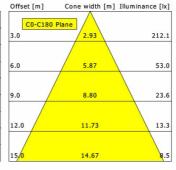
n	LED
Efficiency	61 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	22 W
UGR	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	16.7
UGR C90/C270	16.7
CIE Flux Codes	95 100 100 100 100
Ra/CRI	>80

LTS

Dallton Small - Spotlight Insert (DAL-S-RFR 21, 1xLED 22W 840/4000K 1410lm 50 °)

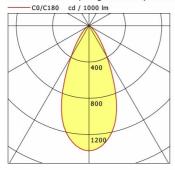


C0 1354	C90 1354	C180	C270
1354	1354		
	1337	1354	1354
1208	1208	1208	1208
458	458	458	458
49	49	49	49
0	0	0	0
0	0	0	0
0	0	0	0
	49 0 0	458 458 49 49 0 0 0 0	458 458 458 49 49 49 0 0 0 0 0 0 0

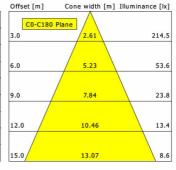


η	LEC	
Efficiency	64 lm/W ↓ 100% / ↑ 0%	
Direct/Indirect		
System Power	22 W	
UGR	X=4H, Y=8H	
Reflection factors	70/50/20	
UGR C0/C180	16.7	
UGR C90/C270	16.7	
CIE Flux Codes	97 100 100 100 100	
Ra/CRI	>80	

Dallton Small - Spotlight Insert (DAL-S-RTR 21_WS-MATT, 1xLED 22W 840/4000K 1400lm 50 °)

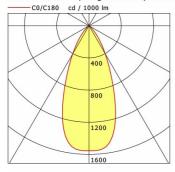


	C0	C90	C180	C270
0°	1379	1379	1379	1379
15°	1109	1109	1109	1109
30°	392	392	392	392
45°	95	95	95	95
60°	25	25	25	25
75°	5	5	5	5
90°	0	0	0	0
	cc	1 / 1000 I	m	



η	LEC	
Efficiency	64 lm/W	
Direct/Indirect	↓ 100% / ↑ 0%	
System Power	22 W	
UGR	X=4H, Y=8H	
Reflection factors	70/50/2	
UGR C0/C180	19.5	
UGR C90/C270	19.5	
CIE Flux Codes	88 98 100 100 100	
Ra/CRI	>80	

Dallton Small - Spotlight Insert (DAL-S-RTQ 11_CH-SW, 1xLED 22W 840/4000K 1260lm 50 °)



	C0	C90	C180	C270
0°	1554	1554	1554	1554
15°	1256	1256	1256	1256
30°	402	402	402	402
45°	63	63	63	63
60°	5	5	5	5
75°	0	0	0	0
90°	0	0	0	0
	cd / 1000 lm			

Offset [m]	Cone width [m]	[lluminance [lx]
C0-C180		
3.0	2.46	217.6
6.0	4.91	54.4
9.0	7.37	24.2
12.0	9.82	13.6
15.0	12.28	8.7

η	LED
Efficiency	57 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	22 W
UGR	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	15.4
UGR C90/C270	15.4
CIE Flux Codes	95 100 100 100 100
Ra/CRI	>80

LTS

Recessed Spotlights · Dallton Small System

DAL-S-LK 101.840.50

Accessories



DAL-S-ZBW 11.21 honeycomb louvre

