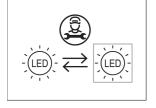
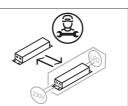


Colours Article no. EAN	
silver 661052 404	3544698698







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

3000 K

Special options



Lighting data / Norms

Lamps

Lifetime

System power Luminaire luminous flux System efficiency Module efficiency UGR class Beam angle Supply voltage Protection class Type of protection LED Spot / CRI 80 / 4000 K L90 B50 50.000 h L80 B50 100.000 h 22.0 W max. 1420 lm 60.90 lm/W 160.65 lm/W ≤22 50° 220 - 240 V / 50 - 60 Hz III IP20

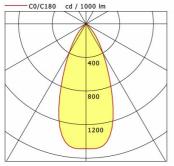
Dimensions / Weights

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

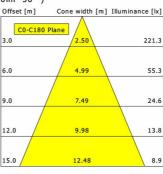
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Dallton Small - Spotlight Insert (DAL-S-RTQ 11_CH, 1xLED 22W 840/4000K 1340Im 50 °)



	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
cd / 1000 lm				



3.0

6.0

9.0

3.0

6.0

9.0

12.0

15.0

Offset [m]

3.0

6.0

9.0

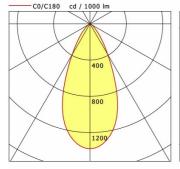
12.0

15.0

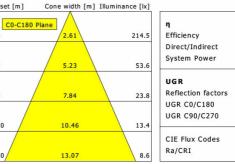
C0-C1

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-RTR 21_WS-MATT, 1xLED 22W 840/4000K 1400Im 50 °) Offset [m]

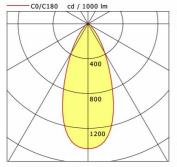


	C0	C90	C180	C270
0°	1379	1379	1379	1379
15°	1109	1109	1109	1109
30°	392	392	392	392
45°	95	95	95	95
60°	25	25	25	25
75°	5	5	5	5
90°	0	0	0	0
cd / 1000 lm				



η	LED		
Efficiency	64 lm/W		
Direct/Indirect	↓ 100% / ↑ 0%		
System Power	22 W		
UGR	X=4H, Y=8H		
Reflection factors	70/50/20		
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_WS-MATT, 1xLED 22W 840/4000K 1320Im 50 °) Offset [m]

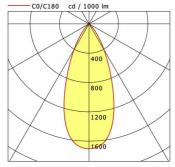


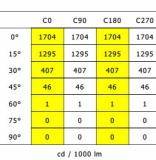
	C0	C90	C180	C270	
0°	1435	1435	1435	1435	
15°	1106	1106	1106	1106	
30°	383	383	383	383	
45°	88	88	88	88	
60°	36	36	36	36	
75°	6	6	6	6	
90°	0	0	0	0	
cd / 1000 lm					

Offset [m]	Cone width [m] Illu	uminance [lx]
C0-C180	Plane 2.43	210.5
6.0	4.86	52.6
9.0	7.29	23.4
12.0	9.71	13.2
15.0	12.14	8.4

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

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

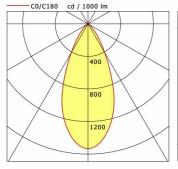




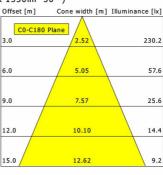
Co	one width [m] Illuminance [lx]		
.80 Plane	2.37	196.9	n Efficiency	LED 47 lm/W
			Direct/Indirect	↓ 100% / ↑ 0%
	4.74	49.2	System Power	22 W
			UGR	X=4H, Y=8H
	7.11	21.9	Reflection factors	70/50/20
			UGR C0/C180	14.0
	9.47	12.3	UGR C90/C270	14.0
			CIE Flux Codes	97 100 100 100 100
	11.84	7.9	Ra/CRI	>80



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

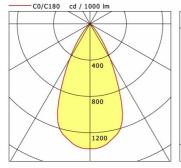


	C0	C90	C180	C270
0°	1535	1535	1535	1535
15°	1169	1169	1169	1169
30°	407	407	407	407
45°	83	83	83	83
60°	6	6	6	6
75°	0	0	0	0
90°	0	0	0	0
cd / 1000 lm				

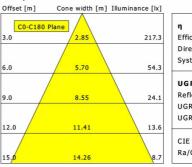


n	LED	
Efficiency	61 lm/W	
Direct/Indirect	↓ 100% / ↑ 0%	
System Power	22 V	
UGR	X=4H, Y=8H	
Reflection factors	70/50/20	
UGR C0/C180	17.6	
UGR C90/C270	17.	
CIE Flux Codes	93 100 100 100 100	
Ra/CRI	> 80	

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

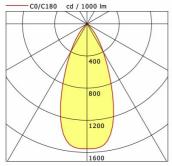


	C0	C90	C180	C270
0°	1378	1378	1378	1378
15°	1230	1230	1230	1230
30°	443	443	443	443
45°	46	46	46	46
60°	2	2	2	2
75°	0	0	0	0
90°	0	0	0	0
cd / 1000 lm				

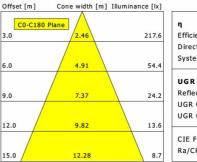


η	LEI	
Efficiency	65 lm/W	
Direct/Indirect	↓ 100% / ↑ 0%	
System Power	22 W	
UGR	X=4H, Y=8H	
Reflection factors	70/50/20	
UGR C0/C180	15.3	
UGR C90/C270	15.3	
CIE Flux Codes	97 100 100 100 100	
Ra/CRI	> 80	

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

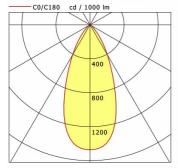


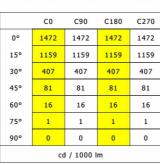
	C0	C90	C180	C270
0°	1554	1554	1554	1554
15°	1256	1256	1256	1256
30°	402	402	402	402
45°	63	63	63	63
60°	5	5	5	5
75°	0	0	0	0
90°	0	0	0	0
	cd	/ 1000	m	



η	LE	
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	

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



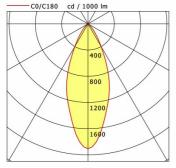


(15001111 5				
Offset [m]	Cone width [m] I	lluminance [lx]		
C0-C180 F	Plane		η	LED
3.0	2.48	212.7	Efficiency	59 lm/W
			Direct/Indirect	↓ 100% / ↑ 0%
			System Power	22 W
6.0	4.96	53.2		
			UGR	X=4H, Y=8H
9.0	7.44	23.6	Reflection factors	70/50/20
			UGR C0/C180	16.8
			UGR C90/C270	16.8
12.0	9.91	13.3		-02000
			CIE Flux Codes	91 99 100 100 100
15.0	12.39	8.5	Ra/CRI	>80
				17

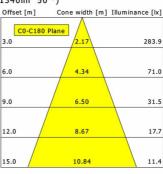
LTS



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

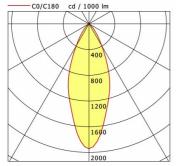


	C0	C90	C180	C270		
0°	1907	1907	1907	1907		
15°	1203	1203	1203	1203		
30°	397	397	397	397		
45°	68	68	68	68		
60°	0	0	0	0		
75°	0	0	0	0		
90°	0	0	0	0		
	co	i / 1000 I	m			



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	16.7	
UGR C90/C270	16.7	
CIE Flux Codes	95 100 100 100 100	
Ra/CRI	>80	

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



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
cd / 1000 lm				

3.0

6.0

9.0

12.0

15.0

3.0

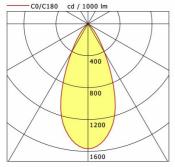
6.0

9.0

fset [m]	Cone width [m]	[lluminance [lx]		
C0-C180 F	Plane 2.10	298.0	n Efficiency	
)	4.20	74.5	Direct/Indirect System Power	
,		/1.5	UGR	
)	6.31	33.1	Reflection factors	
.0	8,41	18.6	UGR C0/C180 UGR C90/C270	
.0	0.41	10.0	CIE Flux Codes	9
.0	10.51	11.9	Ra/CRI	

η	LED
Efficiency	63 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
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-RTR 21_SW-MATT, 1xLED 22W 840/4000K 1170Im 50 °) Offset [m]

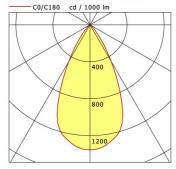


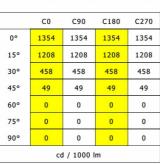
	C0	C90	C180	C270
0°	1567	1567	1567	1567
15°	1250	1250	1250	1250
30°	410	410	410	410
45°	63	63	63	63
60°	0	0	0	0
75°	0	0	0	0
90°	0	0	0	0
	co	i / 1000 I	m	

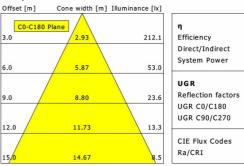
Offset [m]	Cone width [m] Illu	uminance [lx]
C0-C18	0 Plane 2.57	203.7
6.0	5.14	50.9
9.0	7.71	22.6
12.0	10.27	12.7
15.0	12.84	8.1

η	LEC	
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-RFR 21, 1xLED 22W 840/4000K 1410lm 50 °)







n Efficiency Direct/Indirect System Power	LED 64 Im/W ↓ 100% / † 0% 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		

Recessed Spotlights · Dallton Small System

DAL-S-LK 101.840.50/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

S

LOVE TO SHINE

