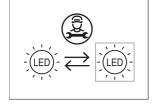
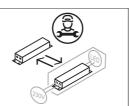


Colours	Article no.	EAN
silver	661050	4043544698674







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. 1530 lm 53.63 lm/W 160.65 lm/W ≤16 40° 220 - 240 V / 50 - 60 Hz III IP20

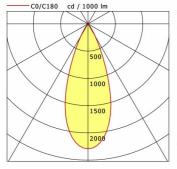
Dimensions / Weights

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

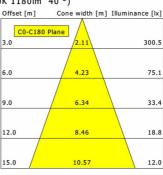
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Dallton Small - Spotlight Insert (DAL-S-RTR 21_SW-MATT, 1xLED 22W 840/4000K 1180lm 40 °)



	C0	C90	C180	C270
0°	2292	2292	2292	2292
15°	1616	1616	1616	1616
30°	262	262	262	262
45°	16	16	16	16
60°	0	0	0	0
75°	0	0	0	0
90°	0	0	0	0
	co	i / 1000 I	m	



η	LED
Efficiency	54 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	22 W
UGR	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	10.5
UGR C90/C270	10.5
CIE Flux Codes	99 100 100 100 100
Ra/CRI	>80

LED

22 W

64 lm/W

↓ 100% / ↑ 0%

X = 4H, Y = 8H

95 100 100 100 100

70/50/20

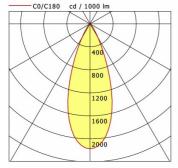
14.2

14.2

>80

LTS

Dallton Small - Spotlight Insert (DAL-S-RTR 21_SI-MATT, 1xLED 22W 840/4000K 1410Im 40 °)



C0 C90 C180 C270					
0°	2172	2172	2172	2172	
15°	1485	1485	1485	1485	
30°	276	276	276	276	
45°	45	45	45	45	
60° 7 7 7 7					
75°	0	0	0	0	
90°	0	0	0	0	
cd / 1000 lm					

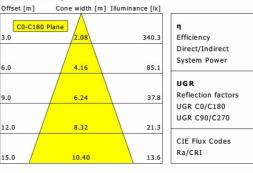
3.0

6.0

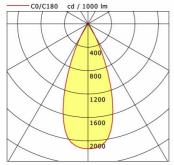
9.0

12.0

15.0



Dallton Small - Spotlight Insert (DAL-S-RFR 21, 1xLED 22W 840/4000K 1450Im 40 °)

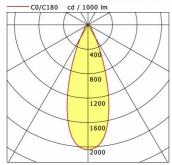


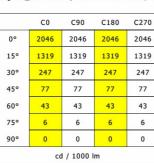
	C0	C90	C180	C270
0°	2136	2136	2136	2136
15°	1635	1635	1635	1635
30°	257	257	257	257
45°	12	12	12	12
60°	0	0	0	0
75°	0	0	0	0
90°	0	0	0	0
	cd	i / 1000 I	m	

Cone width [m] Illu	iminance [lx]
Plane	
2.25	344.1
	1
4.49	86.0
6.74	38.2
8.99	21.5
11.23	13.8
	2.25 4.49 6.74 8.99

η	LEC
Efficiency	66 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	22 W
UGR	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	10.4
UGR C90/C270	10.4
CIE Flux Codes	99 100 100 100 100
Ra/CRI	>80

Dallton Small - Spotlight Insert (DAL-S-RTQ 11_WS-MATT, 1xLED 22W 840/4000K 1360Im 40 °)

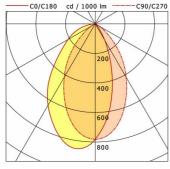




10)		
Cone width [m] Ill	uminance [lx]	
80 Plane	η	
1.96	309.2 Efficiency	
	Direct/Indire	ct
3.91	System Powe	er
	UGR	
5.87	34.4 Reflection fa	ctors
	UGR C0/C18	
7.82	19.3 UGR C90/C2	70
	CIE Flux Cod	es
9.78	12.4 Ra/CRI	
	Cone width [m] Ill 80 Plane 1.96 3.91 5.87 7.82	1.96 309.2 Efficiency 3.91 77.3 Direct/Indire 5.87 34.4 UGR 7.82 19.3 UGR C90/C2 CIE Flux Cod Ba/CRT

UGR C90/C270	19.2
Reflection factors UGR C0/C180	70/50/20 19.2
UGR	X=4H, Y=8H
System Power	22 W
Direct/Indirect	↓ 100% / ↑ 0%
Efficiency	62 lm/W
η Fficiency	

Dallton Small - Spotlight Insert (DAL-S-RWR 21, 1xLED 22W 840/4000K 860lm 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	i / 1000 I	m	

LDC unsuitable for cone representation. Asymetric LDC.

LDC unsuitab

Offset [m]

3.0

6.0

9.0

12.0

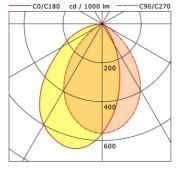
15.0

C0-C180 F

\mathcal{D}	LTS LOVE TO SHINE
η	LED

η	LED
Efficiency	39 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	22 W
UGR	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	<10.0
UGR C90/C270	23.1
CIE Flux Codes	70 91 98 100 100
Ra/CRI	>80

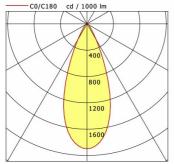
Dallton Small - Spotlight Insert (DAL-S-RWQ 11, 1xLED 22W 840/4000K 680lm 40 °)



	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				

	η	LED
	Efficiency	31 lm/W
	Direct/Indirect	↓ 100% / ↑ 0%
	System Power	22 W
le for cone representation.	UGR	X=4H, Y=8H
Asymetric LDC.	Reflection factors	70/50/20
	UGR C0/C180	<10.0
	UGR C90/C270	22.6
	CIE Flux Codes	62 89 98 100 100
	Ra/CRI	>80

Dallton Small - Spotlight Insert (DAL-S-RTR 21_WS-MATT, 1xLED 22W 840/4000K 1530lm 40 °)

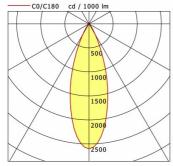


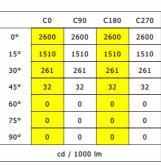
	C0	C90	C180	C270
0°	1898	1898	1898	1898
15°	1362	1362	1362	1362
30°	276	276	276	276
45°	64	64	64	64
60°	29	29	29	29
75°	5	5	5	5
90°	0	0	0	0
cd / 1000 lm				

C	0-C180 Plane		
3.0		2.17	322.6
6.0		4.35	80.6
9.0		6.52	35.8
12.0		8.70	20.2
15.0		10.87	12.9

η	LED
Efficiency	70 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	89 97 100 100 100
Ra/CRI	> 80

Dallton Small - Spotlight Insert (DAL-S-RTR 21_CH, 1xLED 22W 840/4000K 1500Im 40 °)



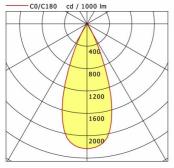


Cone width [m] Illuminance [lx]		
Plane 1.84 433.4	n Efficiency	LED 68 lm/W
3.68 108.3	Direct/Indirect System Power	↓ 100% / ↑ 0% 22 W
5.52 48.2	UGR Reflection factors	X=4H,Y=8H 70/50/20
7.36 27.1	UGR C0/C180 UGR C90/C270	12.7 12.7
9.20 17.3	CIE Flux Codes Ra/CRI	97 100 100 100 100 >80
	•	LTC

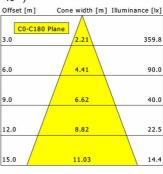
LTS



Dallton Small - Spotlight Insert (DAL-S-RFQ 11, 1xLED 22W 840/4000K 1450lm 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
	cc	/ 1000	m	



3.0

6.0

9.0

Offset [m]

3.0

6.0

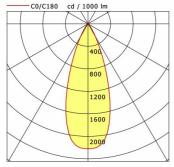
9.0

12.0

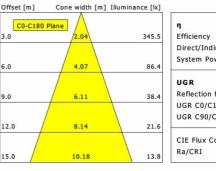
15.0

η	LED
Efficiency	66 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	22 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 22W 840/4000K 1400lm 40 °)

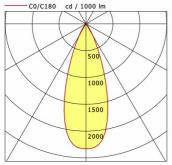


	C0	C90	C180	C270
0°	2221	2221	2221	2221
15°	1520	1520	1520	1520
30°	268	268	268	268
45°	39	39	39	39
60°	6	6	6	6
75°	0	0	0	0
90°	0	0	0	0
cd / 1000 lm				



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	12.3
UGR C90/C270	12.3
CIE Flux Codes	96 100 100 100 100
Ra/CRI	>80

Dallton Small - Spotlight Insert (DAL-S-RTQ 11_CH-SW, 1xLED 22W 840/4000K 1310Im 40 °)

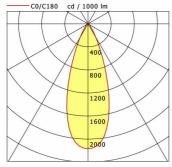


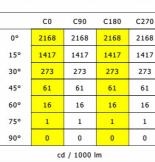
	C0	C90	C180	C270
0°	2329	2329	2329	2329
15°	1569	1569	1569	1569
30°	254	254	254	254
45°	31	31	31	31
60°	4	4	4	4
75°	0	0	0	0
90°	0	0	0	0
cd / 1000 lm				

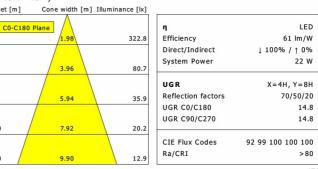
Offset [m]	Cone width [m] II	luminance [lx]
C0-C18	0 Plane 2.00	339.0
6.0	4.01	84.7
9.0	6.01	37.7
12.0	8.01	21.2
15.0	10.02	13.6

η	LED 60 lm/W				
Efficiency					
Direct/Indirect	↓ 100% / ↑ 0%				
System Power	22 W				
UGR	X=4H, Y=8H				
Reflection factors	70/50/20				
UGR C0/C180	11.0				
UGR C90/C270	11.0				
CIE Flux Codes	97 100 100 100 100				
Ra/CRI	> 80				

Dallton Small - Spotlight Insert (DAL-S-RTQ 11_SI-MATT, 1xLED 22W 840/4000K 1340Im 40 °)

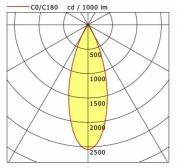






LTS

Dallton Small - Spotlight Insert (DAL-S-RTR 21_CH-SW, 1xLED 22W 840/4000K 1440Im 40 °)



	C0	C90	C180	C270			
0°	2561	2561	2561	2561			
15°	1528	1528	1528	1528			
30°	261	261	261	261			
45°	28	28	28	28			
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	
3.0	1.88	409.8
6.0	3.77	102.4
9.0	5.65	45.5
12.0	7.53	25.6
15.0	9.42	16.4

η	LED
Efficiency	66 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	22 W
UGR	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	12.2
UGR C90/C270	12.2
CIE Flux Codes	98 100 100 100 100
Ra/CRI	>80

LOVE TO SHINE

Dallton Small - Spotlight Insert (DAL-S-RTQ 11_SW-MATT, 1xLED 22W 840/4000K 1060lm 40 °)

						Offset [m]	Cone width [m] Illuminance [lx]		
		C0	C90	C180	C270	C0-C180	Plane		η	LED
	0°	2626	2626	2626	2626	3.0	1.89	309.2	Efficiency	48 lm/W
500	15°	1635	1635	1635	1635				Direct/Indirect System Power	↓ 100% / ↑ 0% 22 W
	30°	234	234	234	234	6.0	3.78	77.3		
	45°	14	14	14	14				UGR	X=4H, Y=8H
1500	60°	1	1	1	1	9.0	5.68	34.4	Reflection factors UGR C0/C180	70/50/20 <10.0
	75°	0	0	0	0				UGR C90/C270	<10.0
2000				-		12.0	7.57	19.3		
	90°	0	0	0	0				CIE Flux Codes	99 100 100 100 100
2500		co	d / 1000 I	m		15.0	9.46	12.4	Ra/CRI	>80
										ITS

Recessed Spotlights · Dallton Small System

DAL-S-LK 101.840.40/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

