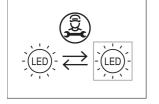
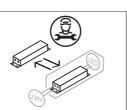


Colours	Article no.	EAN
silver	661028	4043544698452
-		







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

Lamps **EPREL light sources**

Lifetime

System power Luminaire luminous flux System efficiency Module efficiency UGR class Beam angle Supply voltage Protection class Type of protection

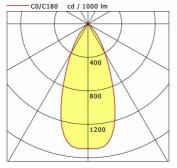
LED Spot/CRI 80/3000 K 992480 L90 B50 50.000 h L80 B50 100.000 h L80 B20 50.000 h 15.0 W max. 1000 lm 62.00 lm/W 157.83 lm/W ≤19 50° 220 - 240 V / 50 - 60 Hz Ш

Dimensions / Weights

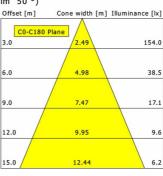
Outer diameter	82 mm
Height	103 mm
Recessed depth	135 mm
Diameter of light head	82 mm
Netweight	0.67 kg
Gross weight	0.71 kg

IP20

Dallton Small - Spotlight Insert (DAL-S-RTQ 11_CH, 1xLED 15W 830/3000K 930lm 50 °)



	C0	C90	C180	C270
0°	1490	1490	1490	1490
15°	1224	1224	1224	1224
30°	400	400	400	400
45°	75	75	75	75
60°	8	8	8	8
75°	0	0	0	0
90°	0	0	0	0
cd / 1000 lm				



C0-C180 Plane

3.0

6.0

9.0

12.0

15.0

3

6

9

1

1

3.0

6.0

9.0

12.0

15.0

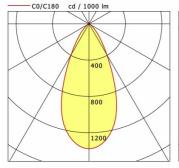
η	LED
Efficiency	62 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	15 W
UGR	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	14.9
UGR C90/C270	14.9
CIE Flux Codes	93 100 100 100 100
Ra/CRI	>80

LOVE TO SHINE

LTS

LTS

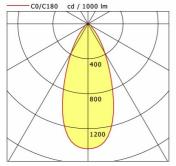
Dallton Small - Spotlight Insert (DAL-S-RTR 21_WS-MATT, 1xLED 15W 830/3000K 980Im 50 °) Offset [m]



	C0	C90	C180	C270
0°	1377	1377	1377	1377
15°	1108	1108	1108	1108
30°	392	392	392	392
45°	96	96	96	96
60°	25	25	25	25
75°	4	4	4	4
90°	0	0	0	0
cd / 1000 lm				

Cone width [m] II	luminance [lx]	45.	
Plane 2.62	150.0	n Efficiency	LED 65 lm/W
		Direct/Indirect	↓ 100% / ↑ 0%
5.24	37.5	System Power	15 W
		UGR	X=4H, Y=8H
7.86	16.7	Reflection factors	70/50/20
		UGR C0/C180	18.3
		UGR C90/C270	18.3
10.48	9.4		
		CIE Flux Codes	88 98 100 100 100
13.09	6.0	Ra/CRI	>80

Dallton Small - Spotlight Insert (DAL-S-RTQ 11_WS-MATT, 1xLED 15W 830/3000K 910Im 50 °) Offset [m] Cone width [m] Illuminance [lx]

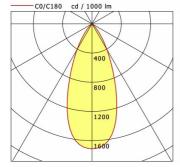


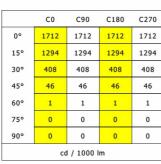
	C0	C90	C180	C270
0°	1431	1431	1431	1431
15°	1107	1107	1107	1107
30°	384	384	384	384
45°	88	88	88	88
60°	36	36	36	36
75°	6	6	6	6
90°	0	0	0	0
cd / 1000 lm				

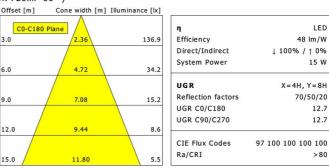
C	0-C180 Plane	\wedge	
.0		2.44	144.7
.0		4.87	36.2
.0		7.31	16.1
2.0		9.75	9.0
5.0		12.18	5.8

η	LED
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	17.6
UGR C90/C270	17.6
CIE Flux Codes	87 97 100 100 100
Ra/CRI	> 80

Dallton Small - Spotlight Insert (DAL-S-RTQ 11_SW-MATT, 1xLED 15W 830/3000K 720Im 50 °)

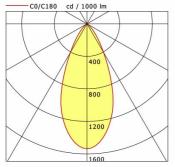




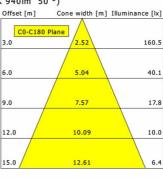


LTS

Dallton Small - Spotlight Insert (DAL-S-RTR 21_SI-MATT, 1xLED 15W 830/3000K 940Im 50 °)



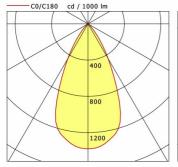
	C0	C90	C180	C270
0°	1537	1537	1537	1537
15°	1172	1172	1172	1172
30°	407	407	407	407
45°	83	83	83	83
60°	6	6	6	6
75°	0	0	0	0
90°	0	0	0	0
cd / 1000 lm				



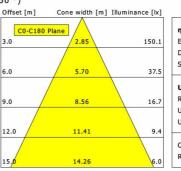
η	LED
Efficiency	63 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	15 W
UGR	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	16.3
UGR C90/C270	16.3
CIE Flux Codes	93 100 100 100 100
Ra/CRI	>80

LOVE TO SHINE

Dallton Small - Spotlight Insert (DAL-S-RFQ 11, 1xLED 15W 830/3000K 980Im 50 °)



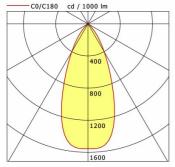
	C0	C90	C180	C270
0°	1379	1379	1379	1379
15°	1230	1230	1230	1230
30°	444	444	444	444
45°	46	46	46	46
60°	2	2	2	2
75°	0	0	0	0
90°	0	0	0	0
cd / 1000 lm				



6.4

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	14.0	
UGR C90/C270	14.0	
CIE Flux Codes	97 100 100 100 100	
Ra/CRI	>80	

Dallton Small - Spotlight Insert (DAL-S-RTQ 11_CH-SW, 1xLED 15W 830/3000K 870Im 50 °)



	C0	C90	C180	C270	
0°	1554	1554	1554	1554	
15°	1257	1257	1257	1257	
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	
	co	i / 1000 I	m		

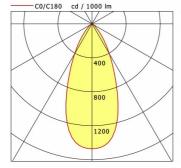
3

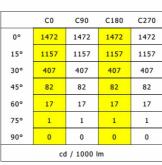
9

Offset [m] C	Cone width [m] I	lluminance [lx]	
C0-C180 Plan	1e 2.45	150.3	ŋ Effic
			Dire
5.0	4.91	37.6	Syst
			UGR
9.0	7.36	16.7	Refle
			UGR
12.0	9.81	9.4	
			CIE
15.0	12.26	6.0	Ra/C

η	LED		
Efficiency	58 lm/W		
Direct/Indirect	↓ 100% / ↑ 0%		
System Power	15 W		
UGR	X=4H, Y=8H		
Reflection factors	70/50/20		
UGR C0/C180	14.1		
UGR C90/C270	14.1		
CIE Flux Codes	95 100 100 100 100		
Ra/CRI	> 80		

Dallton Small - Spotlight Insert (DAL-S-RTQ 11_SI-MATT, 1xLED 15W 830/3000K 900Im 50 °)



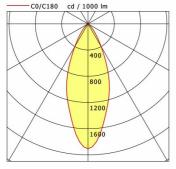


1 900mm 90)			
Offset [m]	Cone width [m]	Illuminance [lx]		
C0-C180 P	Plane		η	LED
3.0	2.47	147.2	Efficiency	60 lm/W
			Direct/Indirect	↓ 100% / ↑ 0%
1077-1-1		54 A.D. 6000	System Power	15 W
6.0	4.95	36.8		
	/		UGR	X=4H, Y=8H
9.0	7.42	16.4	Reflection factors	70/50/20
			UGR C0/C180	15.5
			UGR C90/C270	15.5
12.0	9.90	9.2		
			CIE Flux Codes	91 99 100 100 100
15.0	12.37	5.9	Ra/CRI	>80

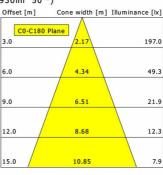
LTS



Dallton Small - Spotlight Insert (DAL-S-RTR 21_CH-SW, 1xLED 15W 830/3000K 930Im 50 °)



	C0	C90	C180	C270
0°	1907	1907	1907	1907
15°	1203	1203	1203	1203
30°	398	398	398	398
45°	68	68	68	68
60°	0	0	0	0
75°	0	0	0	0
90°	0	0	0	0
	co	1 / 1000 I	m	



C0-C180 Plane

3.0

6.0

9.0

12.0

15.0

3.0

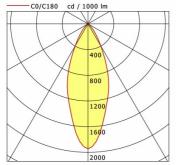
6.0

9.0

15

η	LED 62 lm/W		
Efficiency			
Direct/Indirect	↓ 100% / ↑ 0%		
System Power	15 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		

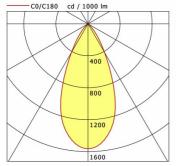
Dallton Small - Spotlight Insert (DAL-S-RTR 21_CH, 1xLED 15W 830/3000K 960Im 50 °) Offset [m]



	C0	C90	C180	C270
0°	1945	1945	1945	1945
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				

Cone width [m] Illuminanc	e [lx]		
lane 2.10 :	207.4	η Efficiency	LED 64 Im/W
4.20	51.9	Direct/Indirect System Power	↓ 100% / ↑ 0% 15 W
6.30	23.0	UGR Reflection factors UGR C0/C180 UGR C90/C270	X=4H,Y=8H 70/50/20 15.6 15.6
8.40	13.0 8.3	CIE Flux Codes Ra/CRI	20.00
		L	LTS

Dallton Small - Spotlight Insert (DAL-S-RTR 21_SW-MATT, 1xLED 15W 830/3000K 810lm 50 °) Off

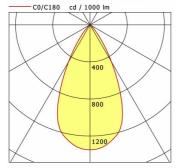


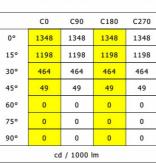
	C0	C90	C180	C270	
0°	1564	1564	1564	1564	
15°	1249	1249	1249	1249	
30°	410	410	410	410	
45°	63	63	63	63	
60°	0	0	0	0	
75°	0	0	0	0	
90°	0	0	0	0	
	co	i / 1000 I	m		

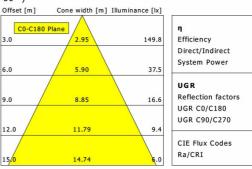
Cone width [m] Illu	iminance [lx]
) Plane 2.57	п 140.8 Еff
5.15	Dir Sy:
7.72	15.6 Re
10.29	8.8
12.86	5.6 CII Ra
	2.57 5.15 7.72 10.29

η	LEI	
Efficiency	54 lm/W	
Direct/Indirect	↓ 100% / ↑ 0%	
System Power	15 W	
UGR	X=4H, Y=8H	
Reflection factors	70/50/20	
UGR C0/C180	14.9	
UGR C90/C270	14.9	
CIE Flux Codes	96 100 100 100 100	
Ra/CRI	>80	

Dallton Small - Spotlight Insert (DAL-S-RFR 21, 1xLED 15W 830/3000K 1000lm 50 °)







LED
67 lm/W
↓ 100% / ↑ 0%
15 W
X=4H, Y=8H
70/50/20
15.6
15.6
97 100 100 100 100
>80
LT

Recessed Spotlights · Dallton Small System

DAL-S-LK 100.830.50/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

