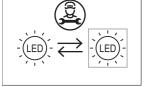
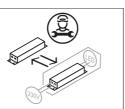


Colours	Article no.	EAN
silver	660978	4043544697950
(		





## 

#### 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
- securing with safety rope
- 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 L90 B50 50.000 h L80 B50 100.000 h L80 B20 50.000 h 43.0 W max. 3440 lm 80.00 lm/W 162.17 lm/W ≤16 35° 220 - 240 V / 50 - 60 Hz III IP20

LED Spot/CRI 80/4000 K

851282

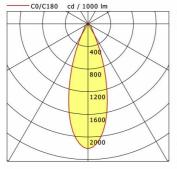
#### Dimensions / Weights

124 mm
149 mm
200 mm
124 mm
1.35 kg
1.42 kg

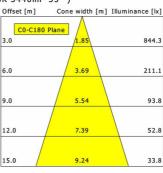
# LOVE TO SHINE

## DAL-L-LK 102.840.35/DALI

Dallton Large - Spotlight Insert (DAL-L-RTR 23\_WS-MATT, 1xLED 43W 840/4000K 3440lm 35 °)

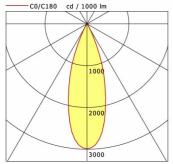


	C0	C90	C180	C270	
0°	2209	2209	2209	2209	
15°	1311	1311	1311	1311	
30°	229	229	229	229	
45°	85	85	85	85	
60°	38	38	38	38	
75°	7	7	7	7	
90°	0	0	0	0	
	co	1 / 1000 I	m		



η	LED	
Efficiency	80 lm/W ↓ 100% / ↑ 0%	
Direct/Indirect		
System Power	43 W	
UGR	X=4H, Y=8H	
Reflection factors	70/50/20	
UGR C0/C180	20.5	
UGR C90/C270	20.5	
CIE Flux Codes	86 97 100 100 100	
Ra/CRI	>80	

Dallton Large - Spotlight Insert (DAL-L-RFQ 13, 1xLED 43W 840/4000K 2920lm 35 °)



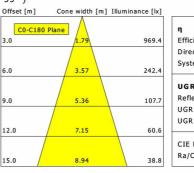
	C0	C90	C180	C270
0°	2988	2988	2988	2988
15°	1696	1696	1696	1696
30°	129	129	129	129
45°	23	23	23	23
60°	2	2	2	2
75°	1	1	1	1
90°	0	0	0	0
cd / 1000 lm				

3.0

3.0

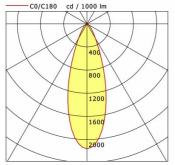
6.0

9.0



η	LED 68 Im/W ↓ 100% / ↑ 0%	
Efficiency		
Direct/Indirect		
System Power	43 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 Large - Spotlight Insert (DAL-L-RTQ 13\_SI-MATT, 1xLED 43W 840/4000K 2850Im 35 °)

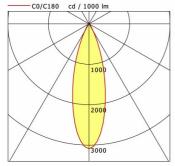


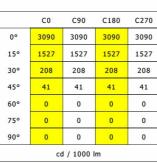
	C0	C90	C180	C270
0°	2161	2161	2161	2161
15°	1275	1275	1275	1275
30°	289	289	289	289
45°	89	89	89	89
60°	23	23	23	23
75°	1	1	1	1
90°	0	0	0	0
	co	i / 1000 I	m	

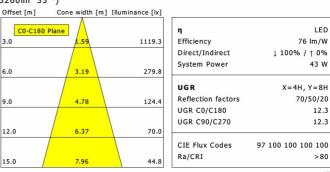
Offset [m]	Cone width [m] II	luminance [lx]
C0-C180		
3.0	1.85	684.3
6.0	3.70	171.1
9.0	5,55	76.0
12.0	7.40	42.8
15.0	9.24	27.4

η	LED 66 Im/W ↓ 100% / ↑ 0%	
Efficiency		
Direct/Indirect		
System Power	43 W	
UGR	X=4H, Y=8H	
Reflection factors	70/50/20	
UGR C0/C180	16.7	
UGR C90/C270	16.7	
CIE Flux Codes	89 99 100 100 100	
Ra/CRI	>80	

Dallton Large - Spotlight Insert (DAL-L-RTR 23\_CH-SW, 1xLED 43W 840/4000K 3260lm 35 °)

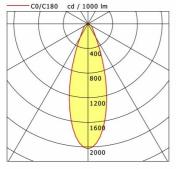








Dallton Large - Spotlight Insert (DAL-L-RTQ 13\_WS-MATT, 1xLED 43W 840/4000K 3050lm 35 °) Offse



	C0	C90	C180	C270
0°	2030	2030	2030	2030
15°	1167	1167	1167	1167
30°	255	255	255	255
45°	107	107	107	107
60°	56	56	56	56
75°	8	8	8	8
90°	0	0	0	0
cd / 1000 lm				

10 3030111	55)	
Offset [m]	Cone width [m] Illu	uminance [lx]
C0-C180	Plane	
3.0	1.81	687.9
6.0	3.61	172.0
0.0		172.0
9.0	5.42	76.4
12.0	7.23	43.0
15.0	9.03	27.5
15.0	9.03	27.5

3.0

6.0

9.0

12.0

15.0

3

6

9

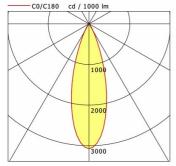
1

1

C0-C180 Plane

η	LED
Efficiency	71 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	43 W
UGR	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	20.9
UGR C90/C270	20.9
CIE Flux Codes	82 95 100 100 100
Ra/CRI	> 80

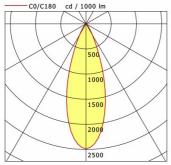
#### Dallton Large - Spotlight Insert (DAL-L-RTQ 13\_SW-MATT, 1xLED 43W 840/4000K 2170Im 35 °) Offset [m]



	C0	C90	C180	C270	
0°	3074	3074	3074	3074	
15°	1642	1642	1642	1642	
30°	201	201	201	201	
45°	20	20	20	20	
60°	0	0	0	0	
75°	0	0	0	0	
90°	0	0	0	0	
cd / 1000 lm					

Cone width [m] Illu	uminance [lx]		
) Plane 1.69	741.3	<b>n</b> Efficiency	LED 51 lm/W
3.38	185.3	Direct/Indirect System Power	↓ 100% / ↑ 0% 43 W
5.07	82.4	<b>UGR</b> Reflection factors	X=4H, Y=8H 70/50/20
6.76	46.3	UGR C0/C180 UGR C90/C270	<10.0 <10.0
8.45	29.7	CIE Flux Codes Ra/CRI	99 100 100 100 100 >80
			LTS

#### Dallton Large - Spotlight Insert (DAL-L-RTQ 13\_CH, 1xLED 43W 840/4000K 3100Im 35 °) Offset [m]

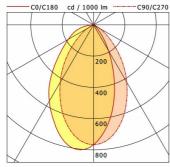


	C0	C90	C180	C270
0°	2486	2486	2486	2486
15°	1489	1489	1489	1489
30°	251	251	251	251
45°	50	50	50	50
60°	9	9	9	9
75°	0	0	0	0
90°	0	0	0	0
cd / 1000 lm				

ffset [m]	Cone width [m] I	lluminance [lx]
C0-C180		
.0	1.86	856.3
.0	3.72	214.1
.0	5.58	95.1
2.0	7,44	53.5
5.0	9.30	34.3
5.0	9.30	34.3

η	LED
Efficiency	72 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	43 W
UGR	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	13.1
UGR C90/C270	13.1
CIE Flux Codes	95 100 100 100 100
Ra/CRI	> 80

Dallton Large - Spotlight Insert (DAL-L-RWR 23, 1xLED 43W 840/4000K 1830Im 35 °)

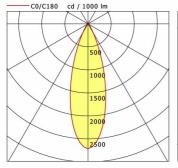


	C0	C90	C180	C270		
0°	768	768	768	768		
15°	503	659	760	659		
30°	193	424	565	424		
45°	38	190	339	190		
60°	5	42	185	42		
75°	1	4	94	4		
90°	0	0	0	0		
	cd / 1000 lm					

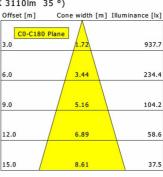
	<b>n</b> Efficiency Direct/Indirect	LED 43 lm/W ↓ 100% / ↑ 0%
	System Power	43 W
LDC unsuitable for cone representation.	UGR	X=4H, Y=8H
Asymetric LDC.	Reflection factors	70/50/20
	UGR C0/C180	12.0
	UGR C90/C270	23.3
	CIE Flux Codes Ra/CRI	70 91 98 100 100 >80

LTS

Dallton Large - Spotlight Insert (DAL-L-RTR 23\_SI-MATT, 1xLED 43W 840/4000K 3110lm 35 °)



	C0	C90	C180	C270
0°	2714	2714	2714	2714
15°	1473	1473	1473	1473
30°	223	223	223	223
45°	53	53	53	53
60°	11	11	11	11
75°	1	1	1	1
90°	0	0	0	0
cd / 1000 lm				



LED
72 lm/W
↓ 100% / ↑ 0%
43 W
X=4H, Y=8H
70/50/20
14.6
14.6

**CIE Flux Codes** 

Ra/CRI

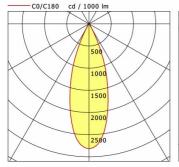
LOVE TO SHINE

94 99 100 100 100

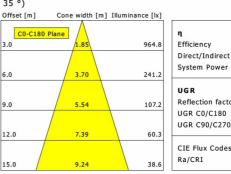
>80

LTS

Dallton Large - Spotlight Insert (DAL-L-RFR 23, 1xLED 43W 840/4000K 3080lm 35 °)

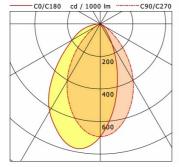


	C0	C90	C180	C270	
0°	2819	2819	2819	2819	
15°	1660	1660	1660	1660	
30°	149	149	149	149	
45°	21	21	21	21	
60°	1	1	1	1	
75°	1	1	1	1	
90°	0	0	0	0	
cd / 1000 lm					



η	LED
Efficiency	72 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	43 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 Large - Spotlight Insert (DAL-L-RWQ 13, 1xLED 43W 840/4000K 1660Im 35 °)

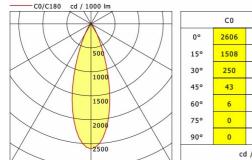


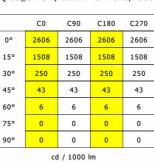
	C0	C90	C180	C270
0°	694	694	694	694
15°	402	601	768	601
30°	145	404	620	404
45°	37	177	385	177
60°	6	29	199	29
75°	1	3	95	3
90°	0	0	0	0
cd / 1000 lm				

LDC unsuitable for cone representation. Asymetric LDC.

η	LED				
Efficiency	39 lm/W				
Direct/Indirect	↓ 100% / ↑ 0%				
System Power	43 W				
UGR	X=4H, Y=8H				
Reflection factors	70/50/20				
UGR C0/C180	<10.0				
UGR C90/C270	22.3				
CIE Flux Codes	67 90 98 100 100				
Ra/CRI	>80				

Dallton Large - Spotlight Insert (DAL-L-RTQ 13\_CH-SW, 1xLED 43W 840/4000K 2640Im 35 °)





Offset

3.0

6.0

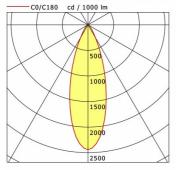
9.0

12.0

15.0

ffset [m]	Cone width [m	] Illuminance [lx]		
C0-C180	Plane		η	LED
0	1.81	764.3	Efficiency	62 lm/W
			Direct/Indirect	↓ 100% / ↑ 0%
0	3.62	191.1	System Power	43 W
			UGR	X=4H, Y=8H
0	5.42	84.9	Reflection factors	70/50/20
			UGR C0/C180	11.6
			UGR C90/C270	11.6
2.0	7.23	47.8	-	
			CIE Flux Codes	96 100 100 100 100
5.0	9.04	30.6	Ra/CRI	>80
				LTS

Dallton Large - Spotlight Insert (DAL-L-RTR 23\_CH, 1xLED 43W 840/4000K 3380Im 35 °)



	C0	C90	C180	C270		
0°	2444	2444	2444	2444		
15°	1371	1371	1371	1371		
30°	290	290	290	290		
45°	66	66	66	66		
60°	1	1	1	1		
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	1.78	917.7
6.0	3.56	229.4
9.0	5.34	102.0
12.0	7.12	57.4
15.0	8.90	36.7

η	LED
Efficiency	79 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	43 W
UGR	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	15.6
UGR C90/C270	15.6
CIE Flux Codes	95 100 100 100 100
Ra/CRI	>80

LTS

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#### Dallton Large - Spotlight Insert (DAL-L-RTR 23\_SW-MATT, 1xLED 43W 840/4000K 2480lm 35 °)

						Offset [m]	Cone width [	m] Illuminance [lx]		
		C0	C90	C180	C270	C0-C180 PI	ane		η	LED
	0°	2500	2500	2500	2500	3.0	1.88	688.8	Efficiency	58 lm/W
500	15°	1508	1508	1508	1508				Direct/Indirect System Power	↓ 100% / ↑ 0% 43 W
	30°	273	273	273	273	6.0	3.77	172.2		
	45°	31	31	31	31				UGR	X=4H, Y=8H
1500	60°	0	0	0	0	9.0	5.65	76.5	Reflection factors UGR C0/C180	70/50/20 11.7
	75°	0	0	0	0				UGR C90/C270	11.7
2006	90°	0	0	0	0	12.0	7.53	43.0	CIE Flux Codes	98 100 100 100 100
2500			1 / 1000			15.0	9.41	27.6	Ra/CRI	>80
	L							,		LTS

Recessed Spotlights · Dallton Large System

# DAL-L-LK 102.840.35/DALI

Accessories



DAL-L-ZBW 13.23 honeycomb louvre







**ZB-OR GATEWAY** Organic Response IoT Gateway Cascade Series



**ZB-OR-R SENSOR** Organic Response sensor for recessed mounting

