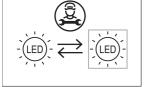
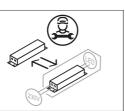
## Recessed Spotlights · Dallton Large System

## DAL-L-LK 101.840.35/DALI



Colours Article no.		EAN
silver	660960	4043544697776
(	3	
		~~~~





## 

### 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 851282 L90 B50 50.000 h L80 B50 100.000 h L80 B20 50.000 h 28.0 W max. 2320 lm 81.78 lm/W 162.17 lm/W ≤16 35° 220 - 240 V / 50 - 60 Hz III IP20

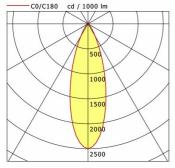
LED Spot / CRI 80 / 4000 K

## Dimensions / Weights

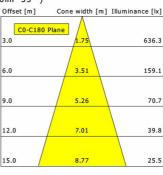
Outer diameter	124 mm
Height	149 mm
Recessed depth	200 mm
Diameter of light head	124 mm
Netweight	1.31 kg
Gross weight	1.38 kg

## DAL-L-LK 101.840.35/DALI

Dallton Large - Spotlight Insert (DAL-L-RTR 23\_CH, 1xLED 28W 840/4000K 2290lm 35 °)



	C0	C90	C180	C270
0°	2501	2501	2501	2501
15°	1380	1380	1380	1380
30°	284	284	284	284
45°	65	65	65	65
60°	0	0	0	0
75°	0	0	0	0
90°	0	0	0	0
cd / 1000 lm				



η	LED
Efficiency	82 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	28 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

LOVE TO SHINE

LTS

LED

28 W

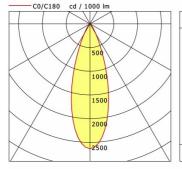
10.3

10.3

>80

LTS

Dallton Large - Spotlight Insert (DAL-L-RTQ 13\_CH-SW, 1xLED 28W 840/4000K 1770lm 35 °) Offset [m]



	C0	C90	C180	C270
0°	2636	2636	2636	2636
15°	1510	1510	1510	1510
30°	245	245	245	245
45°	44	44	44	44
60°	6	6	6	6
75°	0	0	0	0
90°	0	0	0	0
cd / 1000 lm				

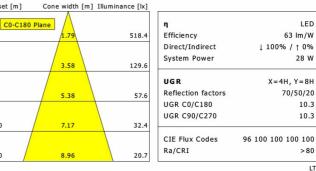
3.0

6.0

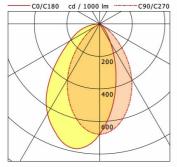
9.0

12.0

15.0



Dallton Large - Spotlight Insert (DAL-L-RWQ 13, 1xLED 28W 840/4000K 1110lm 35 °)

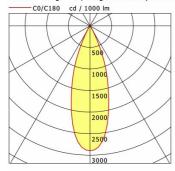


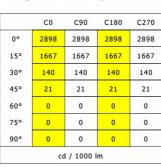
	C0	C90	C180	C270	
0°	679	679	679	679	
15°	385	586	776	586	
30°	135	393	637	393	
45°	35	170	404	170	
60°	5	28	210	28	j
75°	1	3	101	3	
90°	0	0	0	0	
cd / 1000 lm					
					Ì

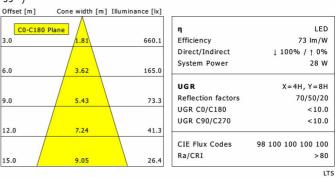
LDC unsuitable for cone representation. Asymetric LDC.

η	LED
Efficiency	40 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	28 W
UGR	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	<10.0
UGR C90/C270	21.0
CIE Flux Codes	66 89 98 100 100
Ra/CRI	>80

Dallton Large - Spotlight Insert (DAL-L-RFR 23, 1xLED 28W 840/4000K 2050lm 35 °)

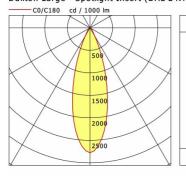




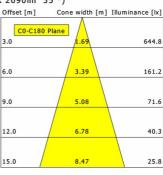


## DAL-L-LK 101.840.35/DALI

Dallton Large - Spotlight Insert (DAL-L-RTR 23\_SI-MATT, 1xLED 28W 840/4000K 2090lm 35 °)



	C0	C90	C180	C270	C0-
0°	2777	2777	2777	2777	3.0
15°	1479	1479	1479	1479	
30°	214	214	214	214	6.0
45°	54	54	54	54	
60°	12	12	12	12	9.0
75°	1	1	1	1	12.0
90°	0	0	0	0	
cd / 1000 lm					15.0

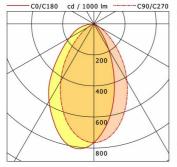


η	LED
Efficiency	75 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	28 W
UGR	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	13.3
UGR C90/C270	13.3
CIE Flux Codes	94 99 100 100 100
Ra/CRI	> 80

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Dallton Large - Spotlight Insert (DAL-L-RWR 23, 1xLED 28W 840/4000K 1230lm 35 °)

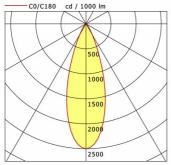


	C0	C90	C180	C270		
0°	766	766	766	766		
15°	494	659	773	659		
30°	189	425	576	425		
45°	37	189	341	189		
60°	5	42	182	42		
75°	1	4	91	4		
90°	0	0	0	0		
cd / 1000 lm						

LDC unsuitable for cone representation. Asymetric LDC.

η	LED
Efficiency	44 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	28 W
UGR	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	10.5
UGR C90/C270	21.8
CIE Flux Codes	70 91 98 100 100
Ra/CRI	>80

#### Dallton Large - Spotlight Insert (DAL-L-RTQ 13\_CH, 1xLED 28W 840/4000K 2070lm 35 °) Offset [m]



	C0	C90	C180	C270	
0°	2500	2500	2500	2500	
15°	1489	1489	1489	1489	
30°	247	247	247	247	
45°	51	51	51	51	
60°	10	10	10	10	
75°	0	0	0	0	
90°	0	0	0	0	
cd / 1000 lm					

<b>C0</b> 3.0	-C180 Plane	1.85	575.1
6.0		3.70	143.8
9.0		5.55	63.9
12.0		7.40	35.9
15.0		9.25	23.0

Offset [m]

3.0

6.0

9.0

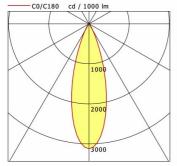
12.0

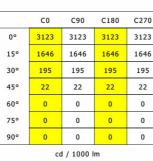
15.0

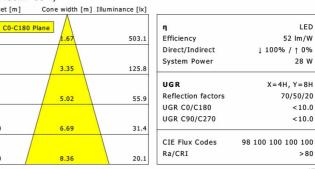
Cone width [m] Illuminance [lx]

η	LED	
Efficiency	74 lm/W	
Direct/Indirect	↓ 100% / ↑ 0%	
System Power	28 W	
UGR	X=4H, Y=8H	
Reflection factors	70/50/20	
UGR C0/C180	11.8	
UGR C90/C270	11.8	
CIE Flux Codes	94 100 100 100 100	
Ra/CRI	>80	

Dallton Large - Spotlight Insert (DAL-L-RTQ 13\_SW-MATT, 1xLED 28W 840/4000K 1450Im 35 °)





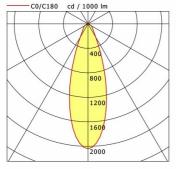


LTS

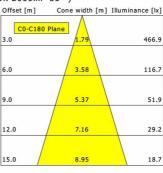
# LOVE TO SHINE

# DAL-L-LK 101.840.35/DALI

Dallton Large - Spotlight Insert (DAL-L-RTQ 13\_WS-MATT, 1xLED 28W 840/4000K 2060lm 35 °)

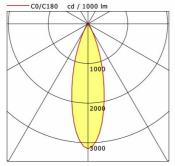


	C0	C90	C180	C270
0°	2040	2040	2040	2040
15°	1162	1162	1162	1162
30°	252	252	252	252
45°	109	109	109	109
60°	57	57	57	57
75°	8	8	8	8
90°	0	0	0	0
	co	i / 1000 I	m	



η	LED
Efficiency	74 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	28 W
UGR	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	19.6
UGR C90/C270	19.6
CIE Flux Codes	81 95 100 100 100
Ra/CRI	> 80

Dallton Large - Spotlight Insert (DAL-L-RTR 23\_CH-SW, 1xLED 28W 840/4000K 2210Im 35 °)



	C0	C90	C180	C270
0°	3152	3152	3152	3152
15°	1534	1534	1534	1534
30°	202	202	202	202
45°	41	41	41	41
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

Offset [m]

3.0

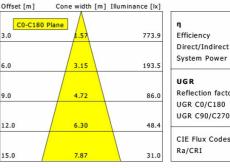
6.0

9.0

12.0

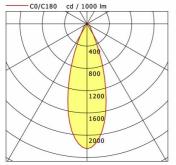
15.0

C0-C180 P



η	LED
Efficiency	79 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	28 W
UGR	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	10.9
UGR C90/C270	10.9
CIE Flux Codes	97 100 100 100 100
Ra/CRI	> 80

Dallton Large - Spotlight Insert (DAL-L-RTR 23\_WS-MATT, 1xLED 28W 840/4000K 2320Im 35 °)

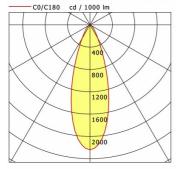


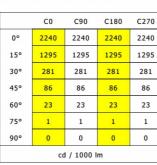
	C0	C90	C180	C270		
0°	2243	2243	2243	2243		
15°	1316	1316	1316	1316		
30°	223	223	223	223		
45°	86	86	86	86		
60°	38	38	38	38		
75°	7	7	7	7		
90°	0	0	0	0		
	co	i / 1000 I	m			

Offset [m]	Cone width [m] I	luminance [lx]
C0-C180	Plane	
3.0	1.83	578.2
6.0	3.66	144.5
9.0	5.48	64.2
12.0	7.31	36.1
15.0	9.14	23.1

η	LED
Efficiency	83 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	28 W
UGR	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	19.1
UGR C90/C270	19.1
CIE Flux Codes	86 97 100 100 100
Ra/CRI	> 80

Dallton Large - Spotlight Insert (DAL-L-RTQ 13\_SI-MATT, 1xLED 28W 840/4000K 1820Im 35 °)



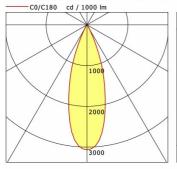


5)			
Cone width [m] Ill	uminance [lx]		
<sup>1</sup> lane 1.81	453.0	<b>n</b> Efficiency	LED 65 lm/W
		Direct/Indirect	↓ 100% / ↑ 0%
3.62	113.2	System Power	28 W
		UGR	X=4H, Y=8H
5.43	50.3	Reflection factors	70/50/20
		UGR C0/C180	14.9
7.25	28.3	UGR C90/C270	14.9
7.25	28.5	CIE Flux Codes	89 99 100 100 100
9.06	18.1	Ra/CRI	>80
		-	ITS

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# DAL-L-LK 101.840.35/DALI

Dallton Large - Spotlight Insert (DAL-L-RFQ 13, 1xLED 28W 840/4000K 1950im 35 °)



	C0	C90	C180	C270
0°	3066	3066	3066	3066
15°	1704	1704	1704	1704
30°	123	123	123	123
45°	23	23	23	23
60°	2	2	2	2
75°	0	0	0	0
90°	0	0	0	0
	cc	1 / 1000 I	m	

Offset [m]	Cone width [m] II	luminance [lx]
C0-C180		
3.0	1.75	664.2
6.0	3.51	166.0
9.0	5.26	73.8
12.0	7.01	41.5
15.0	8.77	26.6

η	LED
Efficiency	70 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	28 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-RTR 23\_SW-MATT, 1xLED 28W 840/4000K 1640Im 35 °)

						Offset [m]	Cone width [m	n] Illuminance [lx]		
		C0	C90	C180	C270	C0-C180	Plane		η	LED
	0°	2555	2555	2555	2555	3.0	1.86	465.5	Efficiency	59 lm/W
500	15°	1520	1520	1520	1520				Direct/Indirect System Power	↓ 100% / ↑ 0% 28 W
	30°	265	265	265	265	6.0	3.72	116.4	System Power	28 W
	45°	30	30	30	30				UGR	X=4H, Y=8H
1500	60°	0	0		0	9.0	5.57	51.7	Reflection factors	70/50/20
				0					UGR C0/C180 UGR C90/C270	10.1 10.1
2000	75°	0	0	0	0	12.0	7.43	29.1		
	90°	0	0	0	0				CIE Flux Codes	98 100 100 100 100
2500		co	I / 1000 I	m		15.0	9.29	18.6	Ra/CRI	>80
										LTS

Recessed Spotlights · Dallton Large System

# DAL-L-LK 101.840.35/DALI

Accessories



DAL-L-ZBW 13.23 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