

# DAL-L-LK 102.830.35/DALI



## 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



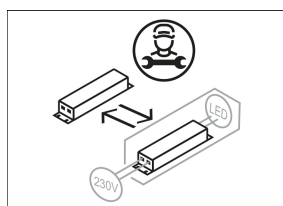
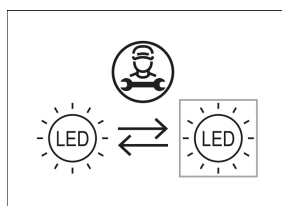
## Lighting data / Norms

<b>Lamps</b>	LED Spot / CRI 80 / 3000 K
<b>EPREL light sources</b>	851239
<b>Lifetime</b>	L90 B50 50.000 h L80 B50 100.000 h L80 B20 50.000 h
<b>System power</b>	43.0 W
<b>Luminaire luminous flux</b>	max. 3280 lm
<b>System efficiency</b>	40.69 lm/W
<b>Module efficiency</b>	158.91 lm/W
<b>UGR class</b>	≤16
<b>Beam angle</b>	35°
<b>Supply voltage</b>	220 - 240 V / 50 - 60 Hz
<b>Protection class</b>	III
<b>Type of protection</b>	IP20

## Dimensions / Weights

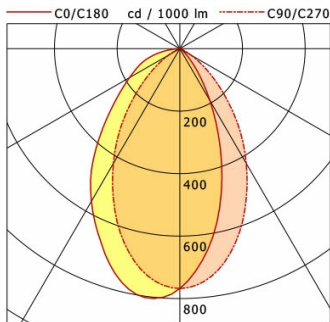
<b>Outer diameter</b>	124 mm
<b>Height</b>	149 mm
<b>Recessed depth</b>	200 mm
<b>Diameter of light head</b>	124 mm
<b>Net weight</b>	1.35 kg
<b>Gross weight</b>	1.42 kg

Colours	Article no.	EAN
silver	660972	4043544697899



# DAL-L-LK 102.830.35/DALI

Dallton Large - Spotlight Insert (DAL-L-RWR 23, 1xLED 43W 830/3000K 1750lm 35 °)



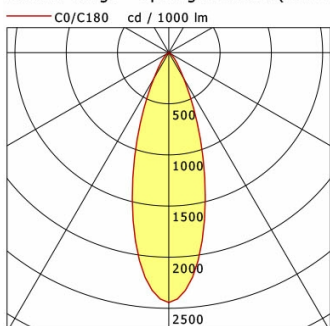
	C0	C90	C180	C270
0°	768	768	768	768
15°	503	659	760	659
30°	193	424	565	424
45°	38	190	339	190
60°	5	42	185	42
75°	1	4	94	4
90°	0	0	0	0

LDC unsuitable for cone representation.  
Asymmetric LDC.

<b>η</b>	LED
Efficiency	41 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	43 W
<b>UGR</b>	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	11.9
UGR C90/C270	23.1
CIE Flux Codes	70 91 98 100 100
Ra/CRI	>80

LTS

Dallton Large - Spotlight Insert (DAL-L-RTR 23\_CH, 1xLED 43W 830/3000K 3230lm 35 °)



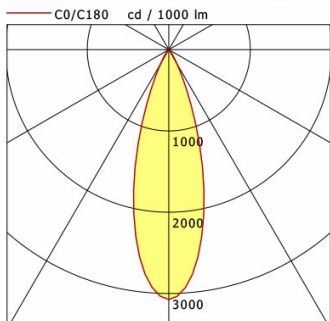
	C0	C90	C180	C270
0°	2444	2444	2444	2444
15°	1371	1371	1371	1371
30°	290	290	290	290
45°	66	66	66	66
60°	1	1	1	1
75°	0	0	0	0
90°	0	0	0	0

Offset [m]	Cone width [m]	Illuminance [lx]
3.0	1.78	877.0
6.0	3.56	219.3
9.0	5.34	97.4
12.0	7.12	54.8
15.0	8.90	35.1

<b>η</b>	LED
Efficiency	75 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	43 W
<b>UGR</b>	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

LTS

Dallton Large - Spotlight Insert (DAL-L-RTQ 13\_SW-MATT, 1xLED 43W 830/3000K 2070lm 35 °)



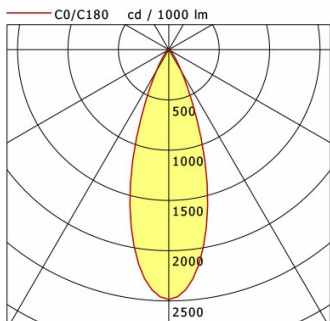
	C0	C90	C180	C270
0°	3074	3074	3074	3074
15°	1642	1642	1642	1642
30°	201	201	201	201
45°	20	20	20	20
60°	0	0	0	0
75°	0	0	0	0
90°	0	0	0	0

Offset [m]	Cone width [m]	Illuminance [lx]
3.0	1.69	707.1
6.0	3.38	176.8
9.0	5.07	78.6
12.0	6.76	44.2
15.0	8.45	28.3

<b>η</b>	LED
Efficiency	48 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	43 W
<b>UGR</b>	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	<10.0
UGR C90/C270	<10.0
CIE Flux Codes	99 100 100 100 100
Ra/CRI	>80

LTS

Dallton Large - Spotlight Insert (DAL-L-RTQ 13\_CH, 1xLED 43W 830/3000K 2960lm 35 °)



	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

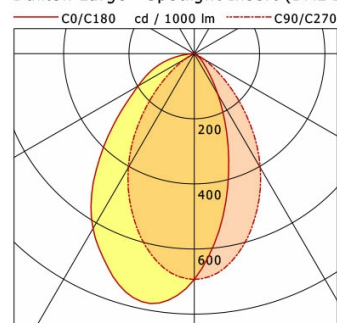
Offset [m]	Cone width [m]	Illuminance [lx]
3.0	1.86	817.6
6.0	3.72	204.4
9.0	5.58	90.8
12.0	7.44	51.1
15.0	9.30	32.7

<b>η</b>	LED
Efficiency	69 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	43 W
<b>UGR</b>	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	12.9
UGR C90/C270	12.9
CIE Flux Codes	95 100 100 100 100
Ra/CRI	>80

LTS

# DAL-L-LK 102.830.35/DALI

Dallton Large - Spotlight Insert (DAL-L-RWQ 13, 1xLED 43W 830/3000K 1590lm 35 °)



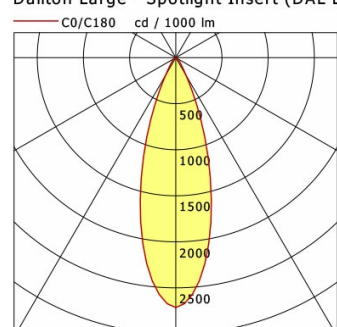
	C0	C90	C180	C270
0°	694	694	694	694
15°	402	601	768	601
30°	145	404	620	404
45°	37	177	385	177
60°	6	29	199	29
75°	1	3	95	3
90°	0	0	0	0

LDC unsuitable for cone representation.  
Asymmetric LDC.

<b>η</b>	LED
Efficiency	37 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	43 W
<b>UGR</b>	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	<10.0
UGR C90/C270	22.2
CIE Flux Codes	67 90 98 100 100
Ra/CRI	>80

LTS

Dallton Large - Spotlight Insert (DAL-L-RTR 23\_SI-MATT, 1xLED 43W 830/3000K 2970lm 35 °)



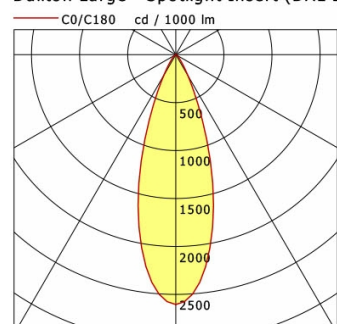
	C0	C90	C180	C270
0°	2714	2714	2714	2714
15°	1473	1473	1473	1473
30°	223	223	223	223
45°	53	53	53	53
60°	11	11	11	11
75°	1	1	1	1
90°	0	0	0	0

Offset [m]	Cone width [m]	Illuminance [lx]
3.0	1.72	895.5
6.0	3.44	223.9
9.0	5.16	99.5
12.0	6.89	56.0
15.0	8.61	35.8

<b>η</b>	LED
Efficiency	69 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	43 W
<b>UGR</b>	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	14.4
UGR C90/C270	14.4
CIE Flux Codes	94 99 100 100 100
Ra/CRI	>80

LTS

Dallton Large - Spotlight Insert (DAL-L-RTQ 13\_CH-SW, 1xLED 43W 830/3000K 2520lm 35 °)



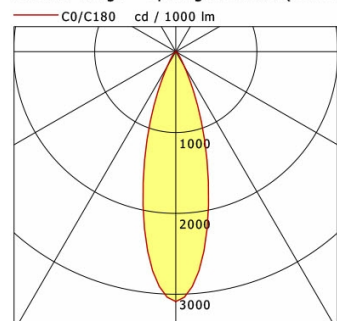
	C0	C90	C180	C270
0°	2606	2606	2606	2606
15°	1508	1508	1508	1508
30°	250	250	250	250
45°	43	43	43	43
60°	6	6	6	6
75°	0	0	0	0
90°	0	0	0	0

Offset [m]	Cone width [m]	Illuminance [lx]
3.0	1.81	729.6
6.0	3.62	182.4
9.0	5.42	81.1
12.0	7.23	45.6
15.0	9.04	29.2

<b>η</b>	LED
Efficiency	59 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	43 W
<b>UGR</b>	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	11.4
UGR C90/C270	11.4
CIE Flux Codes	96 100 100 100 100
Ra/CRI	>80

LTS

Dallton Large - Spotlight Insert (DAL-L-RTR 23\_CH-SW, 1xLED 43W 830/3000K 3110lm 35 °)



	C0	C90	C180	C270
0°	3090	3090	3090	3090
15°	1527	1527	1527	1527
30°	208	208	208	208
45°	41	41	41	41
60°	0	0	0	0
75°	0	0	0	0
90°	0	0	0	0

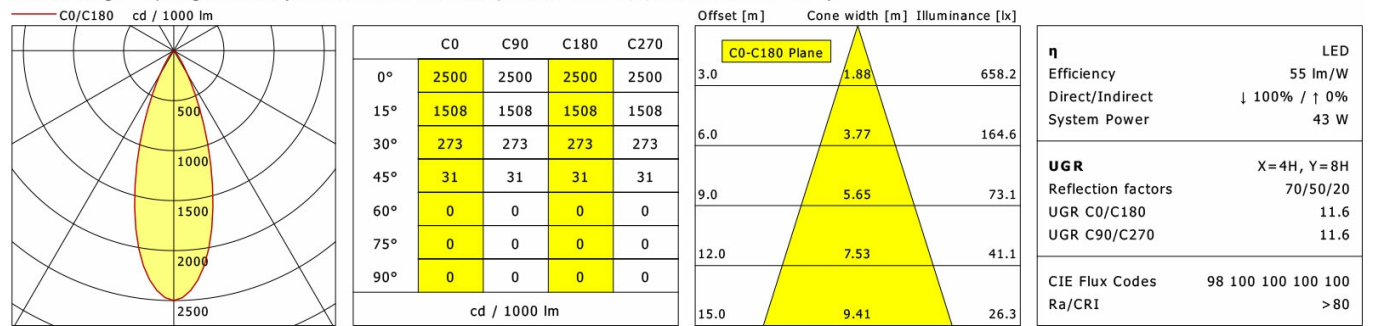
Offset [m]	Cone width [m]	Illuminance [lx]
3.0	1.59	1067.8
6.0	3.19	267.0
9.0	4.78	118.6
12.0	6.37	66.7
15.0	7.96	42.7

<b>η</b>	LED
Efficiency	72 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	43 W
<b>UGR</b>	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	12.2
UGR C90/C270	12.2
CIE Flux Codes	97 100 100 100 100
Ra/CRI	>80

LTS

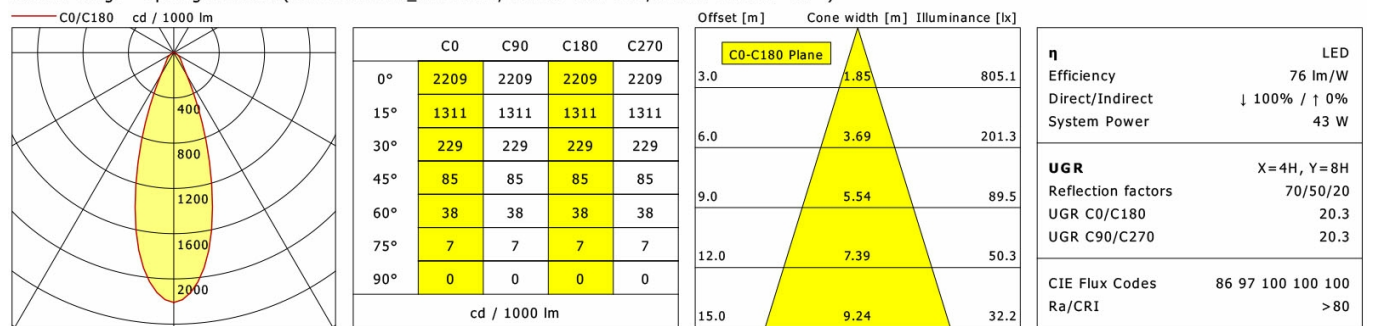
# DAL-L-LK 102.830.35/DALI

Dallton Large - Spotlight Insert (DAL-L-RTR 23\_SW-MATT, 1xLED 43W 830/3000K 2370lm 35 °)



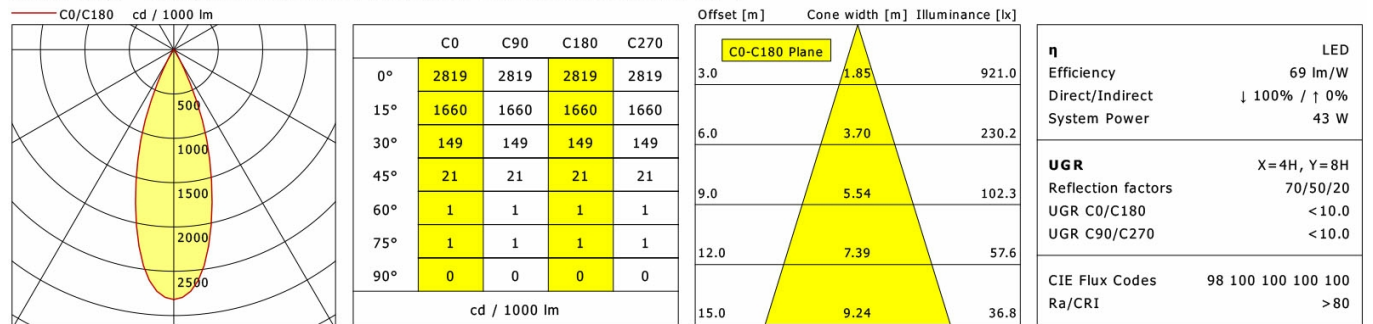
LTS

Dallton Large - Spotlight Insert (DAL-L-RTR 23\_WS-MATT, 1xLED 43W 830/3000K 3280lm 35 °)



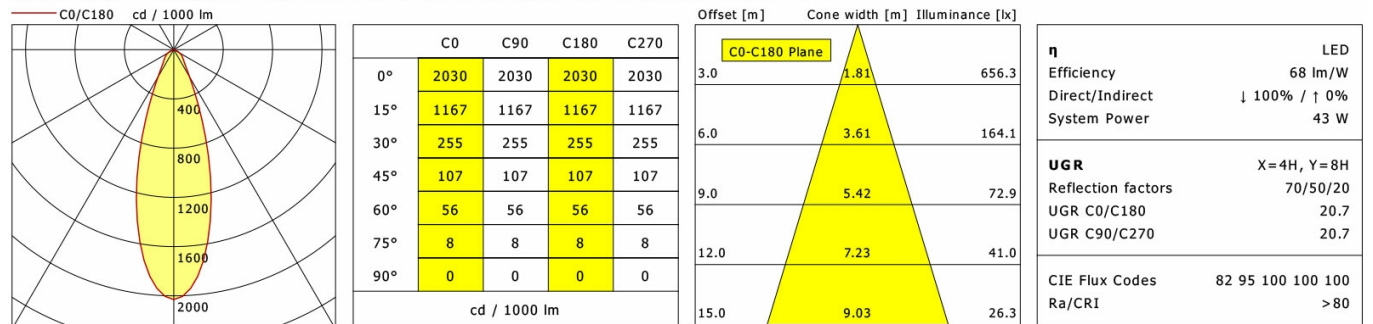
LTS

Dallton Large - Spotlight Insert (DAL-L-RFR 23, 1xLED 43W 830/3000K 2940lm 35 °)



LTS

Dallton Large - Spotlight Insert (DAL-L-RTQ 13\_WS-MATT, 1xLED 43W 830/3000K 2910lm 35 °)

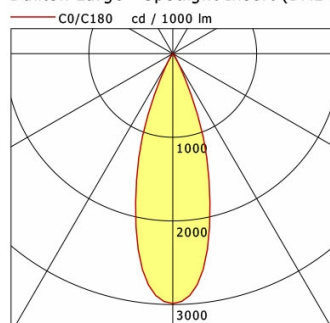


LTS



# DAL-L-LK 102.830.35/DALI

Dallton Large - Spotlight Insert (DAL-L-RFQ 13, 1xLED 43W 830/3000K 2790lm 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

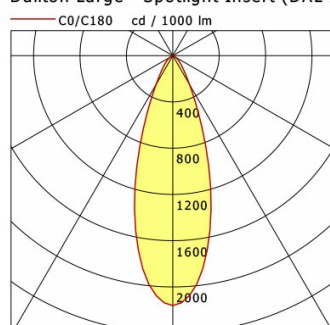
cd / 1000 lm

Offset [m]	Cone width [m]	Illuminance [lx]
3.0	1.79	926.2
6.0	3.57	231.6
9.0	5.36	102.9
12.0	7.15	57.9
15.0	8.94	37.0

<b>η</b>	LED
Efficiency	65 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	43 W
<b>UGR</b>	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

LTS

Dallton Large - Spotlight Insert (DAL-L-RTQ 13\_SI-MATT, 1xLED 43W 830/3000K 2720lm 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

cd / 1000 lm

Offset [m]	Cone width [m]	Illuminance [lx]
3.0	1.85	653.1
6.0	3.70	163.3
9.0	5.55	72.6
12.0	7.40	40.8
15.0	9.24	26.1

<b>η</b>	LED
Efficiency	63 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	43 W
<b>UGR</b>	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	16.5
UGR C90/C270	16.5
CIE Flux Codes	89 99 100 100 100
Ra/CRI	>80

LTS

Recessed Spotlights · Dallton Large System



# DAL-L-LK 102.830.35/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