

# DAL-S-LK 100.840.40/DALI



Colours	Article no.	EAN
silver	661032	4043544698490



## 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

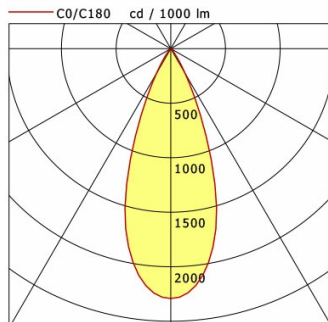
Lamps	LED Spot / CRI 80 / 4000 K
Lifetime	L90 B50 50.000 h L80 B50 100.000 h L80 B20 50.000 h
System power	15.0 W
Luminaire luminous flux	max. 1120 lm
System efficiency	57.33 lm/W
Module efficiency	160.65 lm/W
UGR class	≤16
Beam angle	40°
Supply voltage	220 - 240 V / 50 - 60 Hz
Protection class	III
Type of protection	IP20

## Dimensions / Weights

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

# DAL-S-LK 100.840.40/DALI

Dallton Small - Spotlight Insert (DAL-S-RTR 21\_SW-MATT, 1xLED 15W 840/4000K 860lm 40 °)



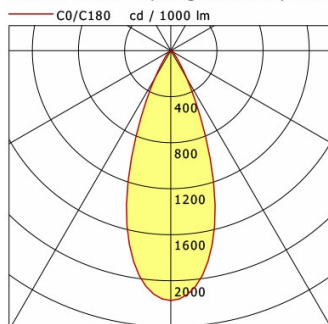
	C0	C90	C180	C270
0°	2292	2292	2292	2292
15°	1616	1616	1616	1616
30°	262	262	262	262
45°	16	16	16	16
60°	0	0	0	0
75°	0	0	0	0
90°	0	0	0	0

Offset [m]	Cone width [m]	Illuminance [lx]
3.0	2.11	219.0
6.0	4.23	54.7
9.0	6.34	24.3
12.0	8.46	13.7
15.0	10.57	8.8

<b>η</b>	LED
Efficiency	57 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	15 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 Small - Spotlight Insert (DAL-S-RTR 21\_SI-MATT, 1xLED 15W 840/4000K 1020lm 40 °)



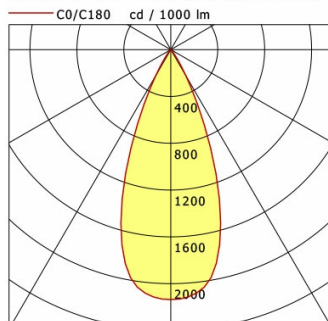
	C0	C90	C180	C270
0°	2172	2172	2172	2172
15°	1485	1485	1485	1485
30°	276	276	276	276
45°	45	45	45	45
60°	7	7	7	7
75°	0	0	0	0
90°	0	0	0	0

Offset [m]	Cone width [m]	Illuminance [lx]
3.0	2.08	246.2
6.0	4.16	61.5
9.0	6.24	27.4
12.0	8.32	15.4
15.0	10.40	9.8

<b>η</b>	LED
Efficiency	68 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	15 W
<b>UGR</b>	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

LTS

Dallton Small - Spotlight Insert (DAL-S-RFR 21, 1xLED 15W 840/4000K 1120lm 40 °)



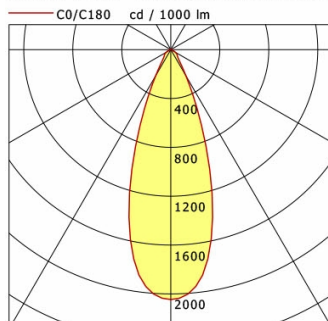
	C0	C90	C180	C270
0°	2136	2136	2136	2136
15°	1635	1635	1635	1635
30°	257	257	257	257
45°	12	12	12	12
60°	0	0	0	0
75°	0	0	0	0
90°	0	0	0	0

Offset [m]	Cone width [m]	Illuminance [lx]
3.0	2.25	265.8
6.0	4.49	66.4
9.0	6.74	29.5
12.0	8.99	16.6
15.0	11.23	10.6

<b>η</b>	LED
Efficiency	75 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	15 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 Small - Spotlight Insert (DAL-S-RTQ 11\_WS-MATT, 1xLED 15W 840/4000K 980lm 40 °)



	C0	C90	C180	C270
0°	2046	2046	2046	2046
15°	1319	1319	1319	1319
30°	247	247	247	247
45°	77	77	77	77
60°	43	43	43	43
75°	6	6	6	6
90°	0	0	0	0

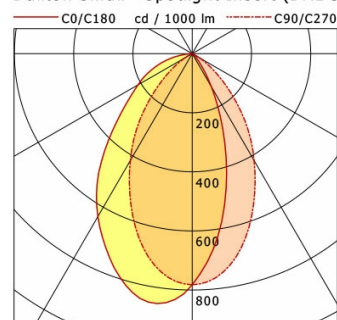
Offset [m]	Cone width [m]	Illuminance [lx]
3.0	1.96	222.8
6.0	3.91	55.7
9.0	5.87	24.8
12.0	7.82	13.9
15.0	9.78	8.9

<b>η</b>	LED
Efficiency	65 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	15 W
<b>UGR</b>	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	18.1
UGR C90/C270	18.1
CIE Flux Codes	86 96 100 100 100
Ra/CRI	>80

LTS

# DAL-S-LK 100.840.40/DALI

Dallton Small - Spotlight Insert (DAL-S-RWR 21, 1xLED 15W 840/4000K 640lm 40 °)



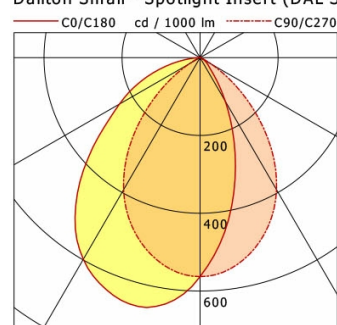
	C0	C90	C180	C270
0°	782	782	782	782
15°	447	665	825	665
30°	129	417	637	417
45°	17	179	389	179
60°	3	30	211	30
75°	1	2	95	2
90°	0	0	0	0

LDC unsuitable for cone representation.  
Asymmetric LDC.

<b>η</b>	LED
Efficiency	43 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	15 W
<b>UGR</b>	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	<10.0
UGR C90/C270	22.1
CIE Flux Codes	70 91 98 100 100
Ra/CRI	>80

LTS

Dallton Small - Spotlight Insert (DAL-S-RWQ 11, 1xLED 15W 840/4000K 500lm 40 °)



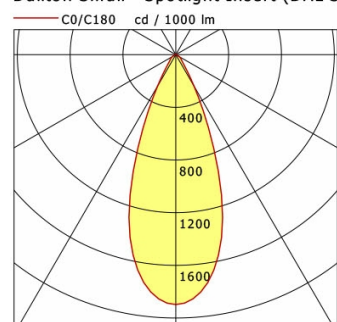
	C0	C90	C180	C270
0°	563	563	563	563
15°	341	516	659	516
30°	129	392	598	392
45°	32	202	429	202
60°	11	35	239	35
75°	3	3	99	3
90°	0	0	0	0

LDC unsuitable for cone representation.  
Asymmetric LDC.

<b>η</b>	LED
Efficiency	33 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	15 W
<b>UGR</b>	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	<10.0
UGR C90/C270	21.5
CIE Flux Codes	62 89 98 100 100
Ra/CRI	>80

LTS

Dallton Small - Spotlight Insert (DAL-S-RTR 21\_WS-MATT, 1xLED 15W 840/4000K 1110lm 40 °)



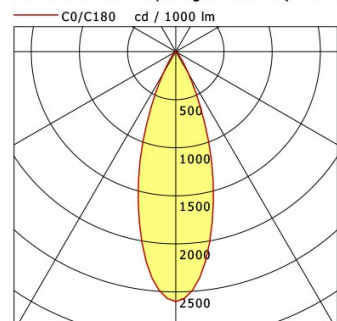
	C0	C90	C180	C270
0°	1898	1898	1898	1898
15°	1362	1362	1362	1362
30°	276	276	276	276
45°	64	64	64	64
60°	29	29	29	29
75°	5	5	5	5
90°	0	0	0	0

Offset [m]	Cone width [m]	Illuminance [lx]
3.0	2.17	234.0
6.0	4.35	58.5
9.0	6.52	26.0
12.0	8.70	14.6
15.0	10.87	9.4

<b>η</b>	LED
Efficiency	74 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	15 W
<b>UGR</b>	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	17.9
UGR C90/C270	17.9
CIE Flux Codes	89 97 100 100 100
Ra/CRI	>80

LTS

Dallton Small - Spotlight Insert (DAL-S-RTR 21\_CH, 1xLED 15W 840/4000K 1090lm 40 °)



	C0	C90	C180	C270
0°	2600	2600	2600	2600
15°	1510	1510	1510	1510
30°	261	261	261	261
45°	32	32	32	32
60°	0	0	0	0
75°	0	0	0	0
90°	0	0	0	0

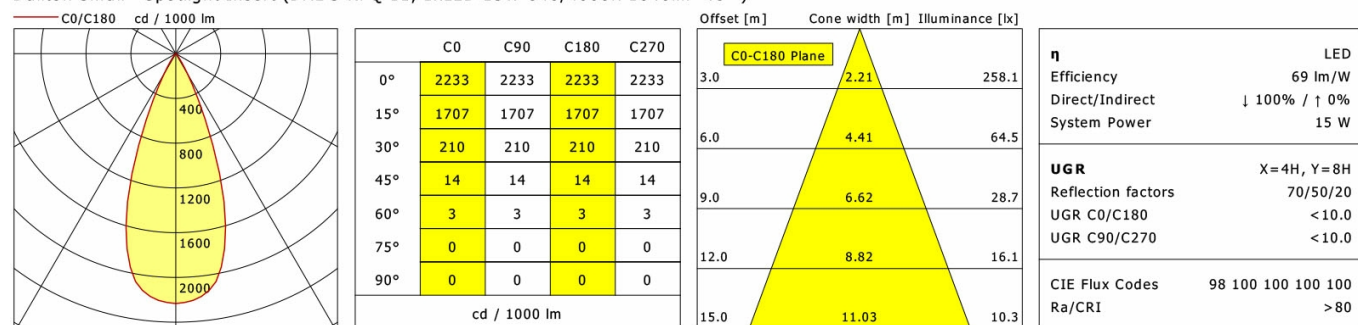
Offset [m]	Cone width [m]	Illuminance [lx]
3.0	1.84	314.9
6.0	3.68	78.7
9.0	5.52	35.0
12.0	7.36	19.7
15.0	9.20	12.6

<b>η</b>	LED
Efficiency	73 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	15 W
<b>UGR</b>	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	11.6
UGR C90/C270	11.6
CIE Flux Codes	97 100 100 100 100
Ra/CRI	>80

LTS

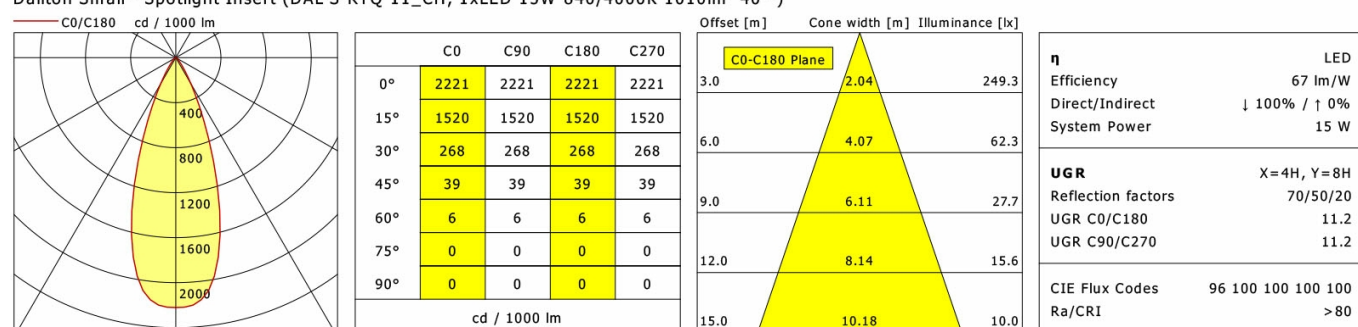
# DAL-S-LK 100.840.40/DALI

Dallton Small - Spotlight Insert (DAL-S-RFQ 11, 1xLED 15W 840/4000K 1040lm 40 °)



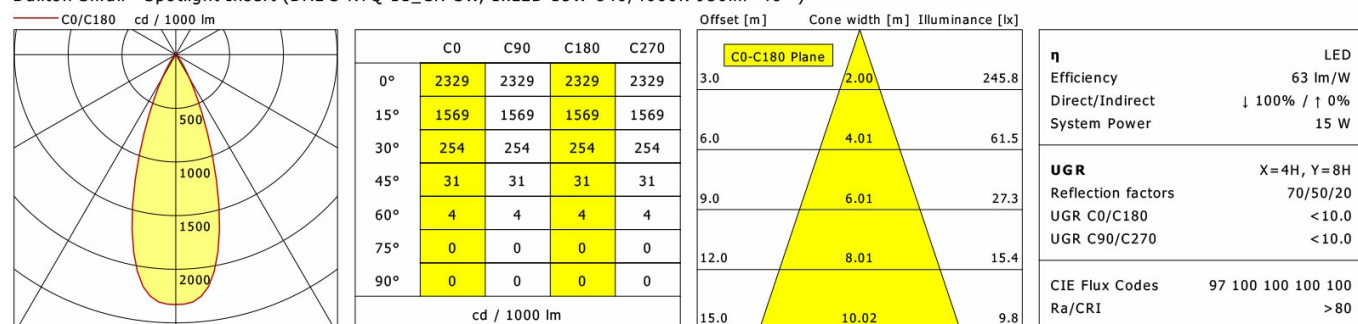
LTS

Dallton Small - Spotlight Insert (DAL-S-RTQ 11\_CH, 1xLED 15W 840/4000K 1010lm 40 °)



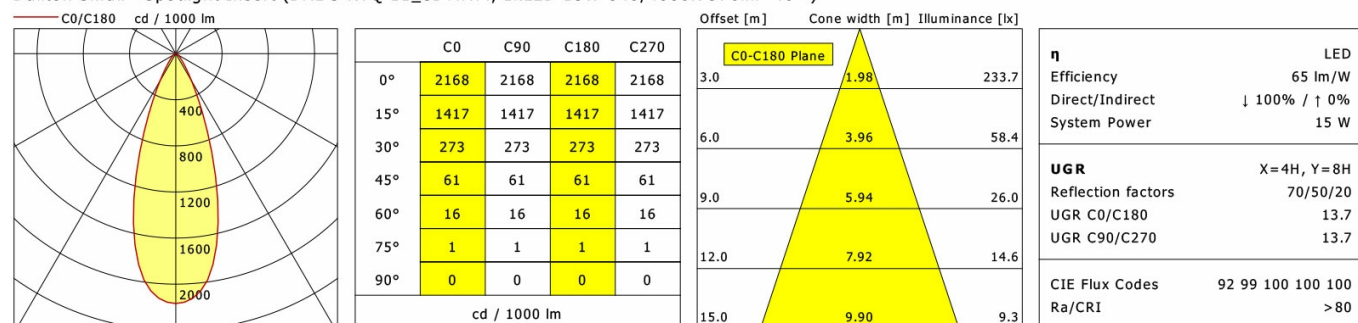
LTS

Dallton Small - Spotlight Insert (DAL-S-RTQ 11\_CH-SW, 1xLED 15W 840/4000K 950lm 40 °)



LTS

Dallton Small - Spotlight Insert (DAL-S-RTQ 11\_SI-MATT, 1xLED 15W 840/4000K 970lm 40 °)

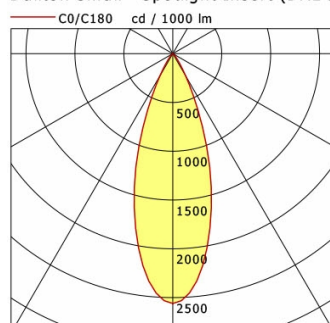


LTS



# DAL-S-LK 100.840.40/DALI

Dallton Small - Spotlight Insert (DAL-S-RTR 21\_CH-SW, 1xLED 15W 840/4000K 1050lm 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

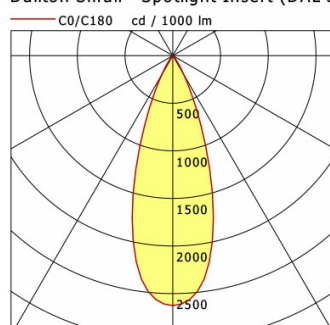
Offset [m]	Cone width [m]	Illuminance [lx]
3.0	1.88	298.8
6.0	3.77	74.7
9.0	5.65	33.2
12.0	7.53	18.7
15.0	9.42	12.0

C0-C180 Plane

<b>η</b>	LED
Efficiency	70 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	15 W
<b>UGR</b>	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	11.1
UGR C90/C270	11.1
CIE Flux Codes	98 100 100 100 100
Ra/CRI	>80

LTS

Dallton Small - Spotlight Insert (DAL-S-RTQ 11\_SW-MATT, 1xLED 15W 840/4000K 770lm 40 °)



	C0	C90	C180	C270
0°	2626	2626	2626	2626
15°	1635	1635	1635	1635
30°	234	234	234	234
45°	14	14	14	14
60°	1	1	1	1
75°	0	0	0	0
90°	0	0	0	0

cd / 1000 lm

Offset [m]	Cone width [m]	Illuminance [lx]
3.0	1.89	224.6
6.0	3.78	56.2
9.0	5.68	25.0
12.0	7.57	14.0
15.0	9.46	9.0

C0-C180 Plane

<b>η</b>	LED
Efficiency	51 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	15 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

Recessed Spotlights · Dallton Small System



# DAL-S-LK 100.840.40/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