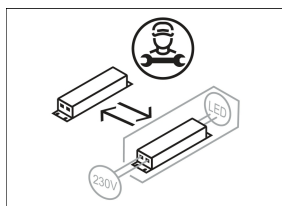
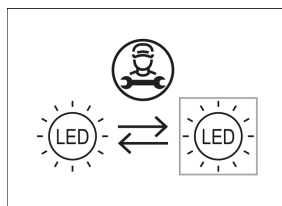


DAL-L-LK 101.840.35



Colours	Article no.	EAN
silver	660959	4043544697769



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) included (external placement)

Standard options



Special options



Lighting data / Norms

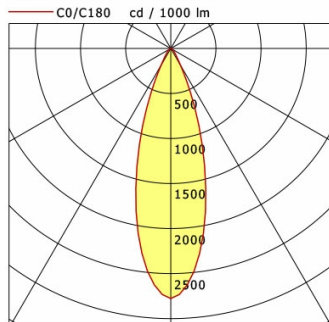
Lamps	LED Spot / CRI 80 / 4000 K
EPREL light sources	851282
Lifetime	L90 B50 50.000 h L80 B50 100.000 h L80 B20 50.000 h
System power	28.0 W
Luminaire luminous flux	max. 2320 lm
System efficiency	74.64 lm/W
Module efficiency	162.17 lm/W
UGR class	≤16
Beam angle	35°
Supply voltage	220 - 240 V / 50 - 60 Hz
Protection class	III
Type of protection	IP20

Dimensions / Weights

Outer diameter	124 mm
Height	149 mm
Recessed depth	200 mm
Diameter of light head	124 mm
Net weight	1.26 kg
Gross weight	1.33 kg

DAL-L-LK 101.840.35

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



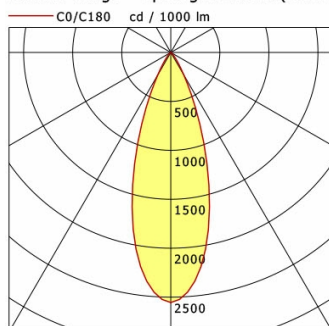
	C0	C90	C180	C270
0°	2777	2777	2777	2777
15°	1479	1479	1479	1479
30°	214	214	214	214
45°	54	54	54	54
60°	12	12	12	12
75°	1	1	1	1
90°	0	0	0	0

Offset [m]	Cone width [m]	Illuminance [lx]
3.0	1.69	644.8
6.0	3.39	161.2
9.0	5.08	71.6
12.0	6.78	40.3
15.0	8.47	25.8

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

LTS

Dallton Large - Spotlight Insert (DAL-L-RTR 23_SW-MATT, 1xLED 28W 840/4000K 1640lm 35 °)



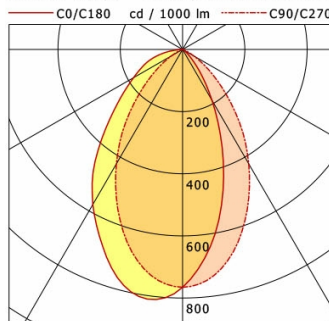
	C0	C90	C180	C270
0°	2555	2555	2555	2555
15°	1520	1520	1520	1520
30°	265	265	265	265
45°	30	30	30	30
60°	0	0	0	0
75°	0	0	0	0
90°	0	0	0	0

Offset [m]	Cone width [m]	Illuminance [lx]
3.0	1.86	465.5
6.0	3.72	116.4
9.0	5.57	51.7
12.0	7.43	29.1
15.0	9.29	18.6

η	LED
Efficiency	59 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	28 W
UGR	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	10.1
UGR C90/C270	10.1
CIE Flux Codes	98 100 100 100 100
Ra/CRI	>80

LTS

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



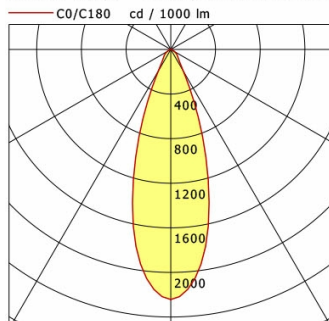
	C0	C90	C180	C270
0°	766	766	766	766
15°	494	659	773	659
30°	189	425	576	425
45°	37	189	341	189
60°	5	42	182	42
75°	1	4	91	4
90°	0	0	0	0

LDC unsuitable for cone representation.
Asymmetric 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

LTS

Dallton Large - Spotlight Insert (DAL-L-RTR 23_WS-MATT, 1xLED 28W 840/4000K 2320lm 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

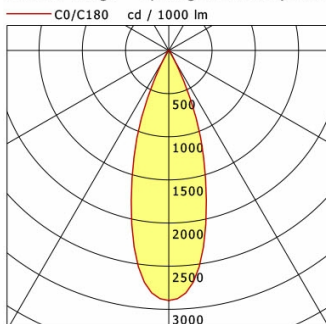
Offset [m]	Cone width [m]	Illuminance [lx]
3.0	1.83	578.2
6.0	3.66	144.5
9.0	5.48	64.2
12.0	7.31	36.1
15.0	9.14	23.1

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

LTS

DAL-L-LK 101.840.35

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



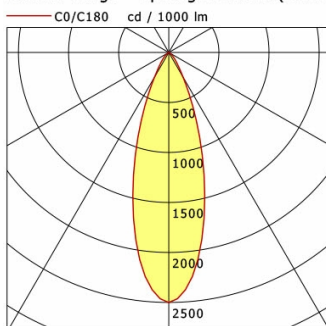
	C0	C90	C180	C270
0°	2898	2898	2898	2898
15°	1667	1667	1667	1667
30°	140	140	140	140
45°	21	21	21	21
60°	0	0	0	0
75°	0	0	0	0
90°	0	0	0	0

Offset [m]	Cone width [m]	Illuminance [lx]
3.0	1.81	660.1
6.0	3.62	165.0
9.0	5.43	73.3
12.0	7.24	41.3
15.0	9.05	26.4

η	LED
Efficiency	73 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

LTS

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



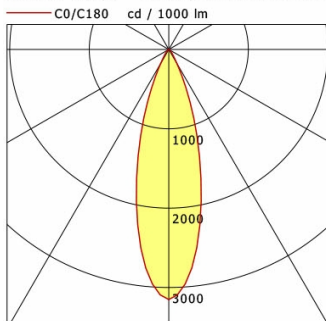
	C0	C90	C180	C270
0°	2501	2501	2501	2501
15°	1380	1380	1380	1380
30°	284	284	284	284
45°	65	65	65	65
60°	0	0	0	0
75°	0	0	0	0
90°	0	0	0	0

Offset [m]	Cone width [m]	Illuminance [lx]
3.0	1.75	636.3
6.0	3.51	159.1
9.0	5.26	70.7
12.0	7.01	39.8
15.0	8.77	25.5

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

LTS

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



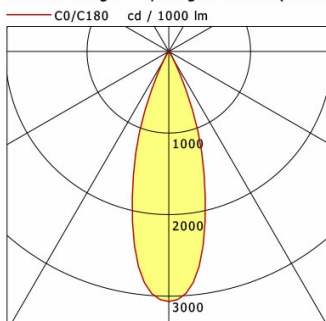
	C0	C90	C180	C270
0°	3152	3152	3152	3152
15°	1534	1534	1534	1534
30°	202	202	202	202
45°	41	41	41	41
60°	0	0	0	0
75°	0	0	0	0
90°	0	0	0	0

Offset [m]	Cone width [m]	Illuminance [lx]
3.0	1.57	773.9
6.0	3.15	193.5
9.0	4.72	86.0
12.0	6.30	48.4
15.0	7.87	31.0

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

LTS

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

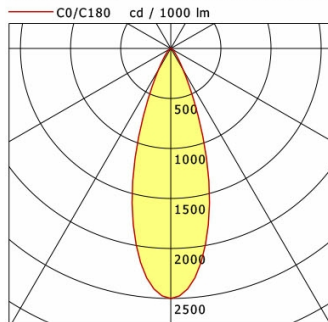
Offset [m]	Cone width [m]	Illuminance [lx]
3.0	1.75	664.2
6.0	3.51	166.0
9.0	5.26	73.8
12.0	7.01	41.5
15.0	8.77	26.6

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

LTS

DAL-L-LK 101.840.35

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



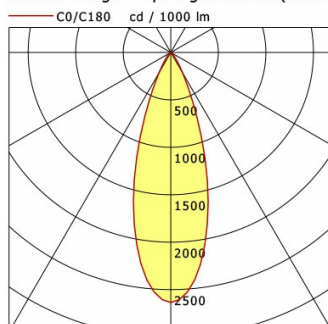
	C0	C90	C180	C270
0°	2500	2500	2500	2500
15°	1489	1489	1489	1489
30°	247	247	247	247
45°	51	51	51	51
60°	10	10	10	10
75°	0	0	0	0
90°	0	0	0	0

Offset [m]	Cone width [m]	Illuminance [lx]
3.0	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

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

LTS

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



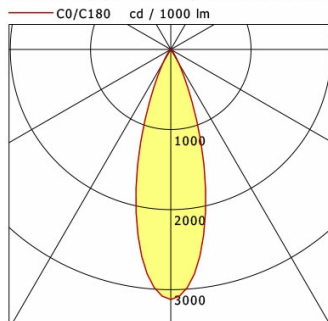
	C0	C90	C180	C270
0°	2636	2636	2636	2636
15°	1510	1510	1510	1510
30°	245	245	245	245
45°	44	44	44	44
60°	6	6	6	6
75°	0	0	0	0
90°	0	0	0	0

Offset [m]	Cone width [m]	Illuminance [lx]
3.0	1.79	518.4
6.0	3.58	129.6
9.0	5.38	57.6
12.0	7.17	32.4
15.0	8.96	20.7

η	LED
Efficiency	63 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	28 W
UGR	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	10.3
UGR C90/C270	10.3
CIE Flux Codes	96 100 100 100 100
Ra/CRI	>80

LTS

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



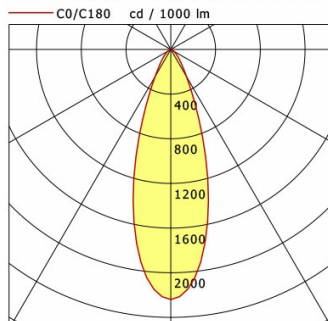
	C0	C90	C180	C270
0°	3123	3123	3123	3123
15°	1646	1646	1646	1646
30°	195	195	195	195
45°	22	22	22	22
60°	0	0	0	0
75°	0	0	0	0
90°	0	0	0	0

Offset [m]	Cone width [m]	Illuminance [lx]
3.0	1.67	503.1
6.0	3.35	125.8
9.0	5.02	55.9
12.0	6.69	31.4
15.0	8.36	20.1

η	LED
Efficiency	52 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

LTS

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



	C0	C90	C180	C270
0°	2240	2240	2240	2240
15°	1295	1295	1295	1295
30°	281	281	281	281
45°	86	86	86	86
60°	23	23	23	23
75°	1	1	1	1
90°	0	0	0	0

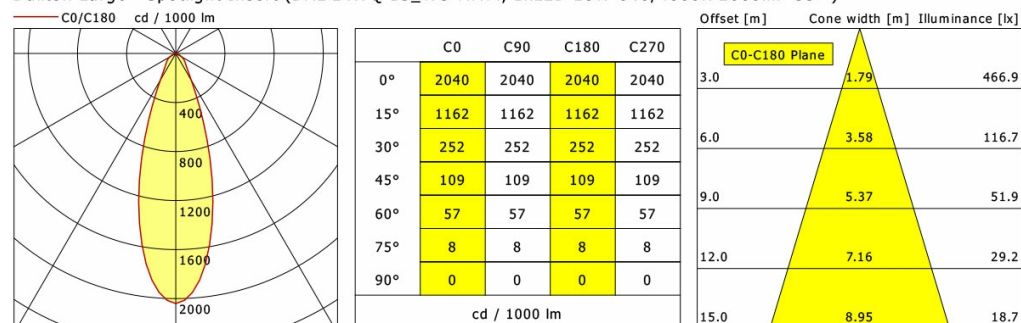
Offset [m]	Cone width [m]	Illuminance [lx]
3.0	1.81	453.0
6.0	3.62	113.2
9.0	5.43	50.3
12.0	7.25	28.3
15.0	9.06	18.1

η	LED
Efficiency	65 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	28 W
UGR	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	14.9
UGR C90/C270	14.9
CIE Flux Codes	89 99 100 100 100
Ra/CRI	>80

LTS

DAL-L-LK 101.840.35

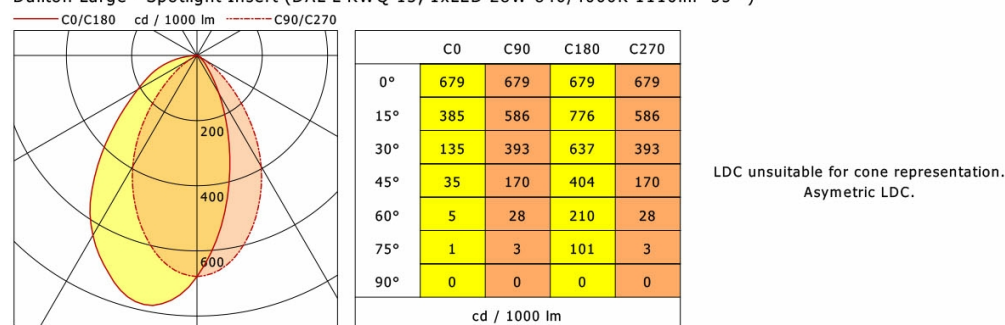
Dallton Large - Spotlight Insert (DAL-L-RTQ 13_WS-MATT, 1xLED 28W 840/4000K 2060lm 35 °)



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

LTS

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



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

LTS

Recessed Spotlights · Dallton Large System



DAL-L-LK 101.840.35

Accessories



DAL-L-ZBW 13.23
honeycomb louvre