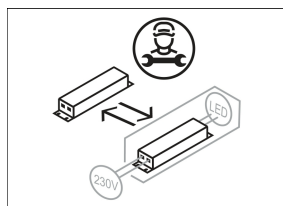
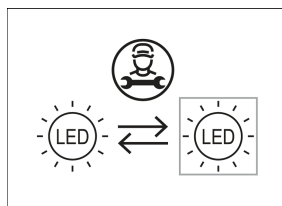


DAL-L-LK 101.840.20



Colours	Article no.	EAN
silver	660957	4043544697745



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

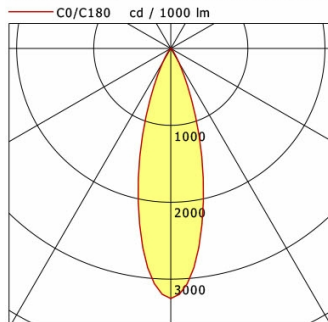
Lamps	LED Spot / CRI 80 / 4000 K
EPREL light sources	851282
Lifetime	L90 B50 50.000 h L80 B50 100.000 h L80 B20 50.000 h
System power	28.0 W
Luminaire luminous flux	max. 2460 lm
System efficiency	62.14 lm/W
Module efficiency	162.17 lm/W
UGR class	≤16
Beam angle	20°
Supply voltage	220 - 240 V / 50 - 60 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 101.840.20

Dallton Large - Spotlight Insert (DAL-L-RTR 23_SW-MATT, 1xLED 28W 840/4000K 1740lm 20 °)



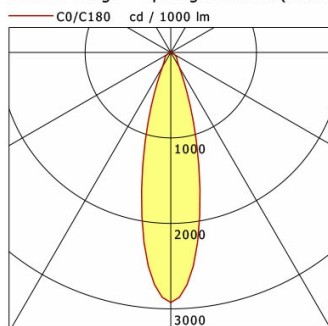
	C0	C90	C180	C270
0°	3252	3252	3252	3252
15°	1598	1598	1598	1598
30°	202	202	202	202
45°	24	24	24	24
60°	0	0	0	0
75°	0	0	0	0
90°	0	0	0	0

Offset [m]	Cone width [m]	Illuminance [lx]
3.0	1.59	628.7
6.0	3.17	157.2
9.0	4.76	69.9
12.0	6.34	39.3
15.0	7.93	25.1

η	LED
Efficiency	62 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_WS-MATT, 1xLED 28W 840/4000K 2210lm 20 °)



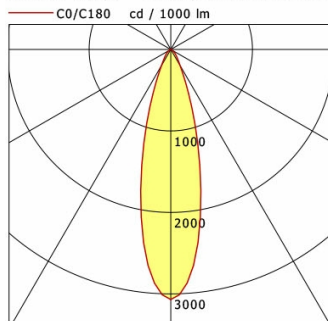
	C0	C90	C180	C270
0°	2926	2926	2926	2926
15°	1214	1214	1214	1214
30°	194	194	194	194
45°	99	99	99	99
60°	53	53	53	53
75°	8	8	8	8
90°	0	0	0	0

Offset [m]	Cone width [m]	Illuminance [lx]
3.0	1.41	718.4
6.0	2.82	179.6
9.0	4.23	79.8
12.0	5.64	44.9
15.0	7.05	28.7

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	19.3
UGR C90/C270	19.3
CIE Flux Codes	83 96 100 100 100
Ra/CRI	>80

LTS

Dallton Large - Spotlight Insert (DAL-L-RTQ 13_SI-MATT, 1xLED 28W 840/4000K 1960lm 20 °)



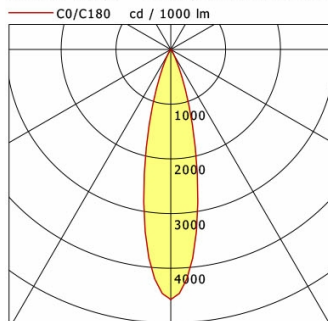
	C0	C90	C180	C270
0°	3069	3069	3069	3069
15°	1329	1329	1329	1329
30°	226	226	226	226
45°	79	79	79	79
60°	20	20	20	20
75°	1	1	1	1
90°	0	0	0	0

Offset [m]	Cone width [m]	Illuminance [lx]
3.0	1.45	668.3
6.0	2.90	167.1
9.0	4.36	74.3
12.0	5.81	41.8
15.0	7.26	26.7

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	14.4
UGR C90/C270	14.4
CIE Flux Codes	90 99 100 100 100
Ra/CRI	>80

LTS

Dallton Large - Spotlight Insert (DAL-L-RTQ 13_SW-MATT, 1xLED 28W 840/4000K 1610lm 20 °)



	C0	C90	C180	C270
0°	4571	4571	4571	4571
15°	1630	1630	1630	1630
30°	118	118	118	118
45°	17	17	17	17
60°	1	1	1	1
75°	0	0	0	0
90°	0	0	0	0

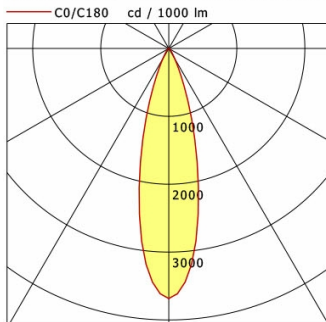
Offset [m]	Cone width [m]	Illuminance [lx]
3.0	1.29	817.8
6.0	2.59	204.4
9.0	3.88	90.9
12.0	5.18	51.1
15.0	6.47	32.7

η	LED
Efficiency	58 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	99 100 100 100 100
Ra/CRI	>80

LTS

DAL-L-LK 101.840.20

Dallton Large - Spotlight Insert (DAL-L-RTQ 13_CH-SW, 1xLED 28W 840/4000K 1930lm 20 °)



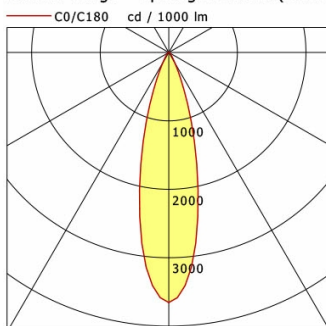
	C0	C90	C180	C270
0°	3684	3684	3684	3684
15°	1548	1548	1548	1548
30°	175	175	175	175
45°	36	36	36	36
60°	5	5	5	5
75°	0	0	0	0
90°	0	0	0	0

Offset [m]	Cone width [m]	Illuminance [lx]
3.0	1.43	790.0
6.0	2.85	197.5
9.0	4.28	87.8
12.0	5.71	49.4
15.0	7.14	31.6

η	LED
Efficiency	69 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	96 100 100 100 100
Ra/CRI	>80

LTS

Dallton Large - Spotlight Insert (DAL-L-RTQ 13_CH, 1xLED 28W 840/4000K 2220lm 20 °)



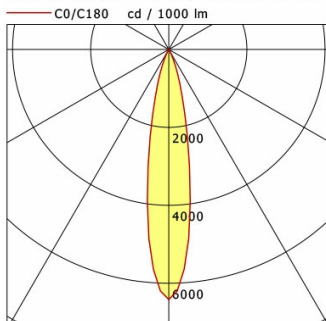
	C0	C90	C180	C270
0°	3655	3655	3655	3655
15°	1517	1517	1517	1517
30°	177	177	177	177
45°	42	42	42	42
60°	8	8	8	8
75°	0	0	0	0
90°	0	0	0	0

Offset [m]	Cone width [m]	Illuminance [lx]
3.0	1.41	901.5
6.0	2.83	225.4
9.0	4.24	100.2
12.0	5.65	56.3
15.0	7.07	36.1

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	10.3
UGR C90/C270	10.3
CIE Flux Codes	95 100 100 100 100
Ra/CRI	>80

LTS

Dallton Large - Spotlight Insert (DAL-L-RFQ 13, 1xLED 28W 840/4000K 2140lm 20 °)



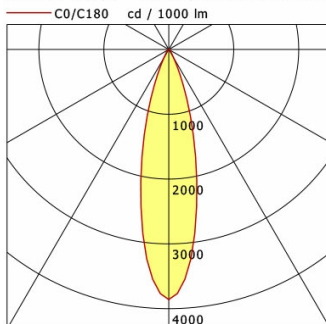
	C0	C90	C180	C270
0°	6417	6417	6417	6417
15°	1440	1440	1440	1440
30°	57	57	57	57
45°	19	19	19	19
60°	2	2	2	2
75°	0	0	0	0
90°	0	0	0	0

Offset [m]	Cone width [m]	Illuminance [lx]
3.0	1.02	1525.9
6.0	2.04	381.5
9.0	3.06	169.5
12.0	4.08	95.4
15.0	5.11	61.0

η	LED
Efficiency	77 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_SI-MATT, 1xLED 28W 840/4000K 2260lm 20 °)



	C0	C90	C180	C270
0°	3859	3859	3859	3859
15°	1533	1533	1533	1533
30°	148	148	148	148
45°	44	44	44	44
60°	10	10	10	10
75°	1	1	1	1
90°	0	0	0	0

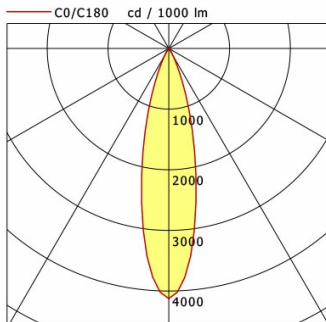
Offset [m]	Cone width [m]	Illuminance [lx]
3.0	1.36	968.9
6.0	2.72	242.2
9.0	4.08	107.7
12.0	5.45	60.6
15.0	6.81	38.8

η	LED
Efficiency	81 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	28 W
UGR	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	11.9
UGR C90/C270	11.9
CIE Flux Codes	95 99 100 100 100
Ra/CRI	>80

LTS

DAL-L-LK 101.840.20

Dallton Large - Spotlight Insert (DAL-L-RTR 23_CH-SW, 1xLED 28W 840/4000K 2370lm 20 °)



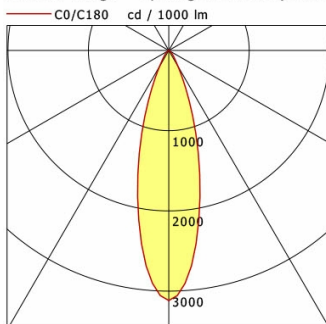
	C0	C90	C180	C270
0°	4123	4123	4123	4123
15°	1576	1576	1576	1576
30°	142	142	142	142
45°	34	34	34	34
60°	0	0	0	0
75°	0	0	0	0
90°	0	0	0	0

Offset [m]	Cone width [m]	Illuminance [lx]
3.0	1.32	1085.7
6.0	2.65	271.4
9.0	3.97	120.6
12.0	5.30	67.9
15.0	6.62	43.4

η	LED
Efficiency	85 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	97 100 100 100 100
Ra/CRI	>80

LTS

Dallton Large - Spotlight Insert (DAL-L-RTR 23_CH, 1xLED 28W 840/4000K 2440lm 20 °)



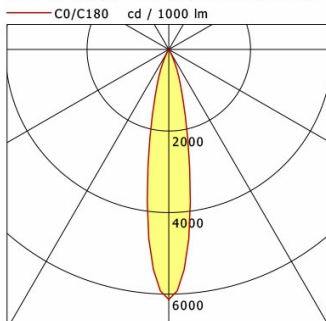
	C0	C90	C180	C270
0°	3117	3117	3117	3117
15°	1459	1459	1459	1459
30°	229	229	229	229
45°	56	56	56	56
60°	0	0	0	0
75°	0	0	0	0
90°	0	0	0	0

Offset [m]	Cone width [m]	Illuminance [lx]
3.0	1.53	845.0
6.0	3.05	211.2
9.0	4.58	93.9
12.0	6.10	52.8
15.0	7.63	33.8

η	LED
Efficiency	87 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	28 W
UGR	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	13.0
UGR C90/C270	13.0
CIE Flux Codes	95 100 100 100 100
Ra/CRI	>80

LTS

Dallton Large - Spotlight Insert (DAL-L-RFR 23, 1xLED 28W 840/4000K 2250lm 20 °)



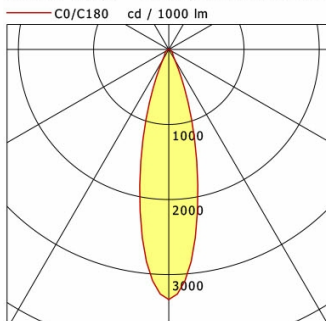
	C0	C90	C180	C270
0°	6132	6132	6132	6132
15°	1430	1430	1430	1430
30°	69	69	69	69
45°	16	16	16	16
60°	1	1	1	1
75°	0	0	0	0
90°	0	0	0	0

Offset [m]	Cone width [m]	Illuminance [lx]
3.0	1.03	1533.0
6.0	2.05	383.3
9.0	3.08	170.3
12.0	4.10	95.8
15.0	5.13	61.3

η	LED
Efficiency	81 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	99 100 100 100 100
Ra/CRI	>80

LTS

Dallton Large - Spotlight Insert (DAL-L-RTR 23_WS-MATT, 1xLED 28W 840/4000K 2460lm 20 °)



	C0	C90	C180	C270
0°	3333	3333	3333	3333
15°	1388	1388	1388	1388
30°	160	160	160	160
45°	72	72	72	72
60°	33	33	33	33
75°	6	6	6	6
90°	0	0	0	0

Offset [m]	Cone width [m]	Illuminance [lx]
3.0	1.41	910.9
6.0	2.82	227.7
9.0	4.23	101.2
12.0	5.63	56.9
15.0	7.04	36.4

η	LED
Efficiency	88 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	28 W
UGR	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	18.2
UGR C90/C270	18.2
CIE Flux Codes	88 97 100 100 100
Ra/CRI	>80

LTS

Recessed Spotlights · Dallton Large System



DAL-L-LK 101.840.20

Accessories



DAL-L-ZBW 13.23
honeycomb louvre