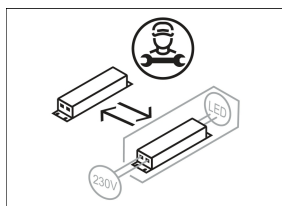
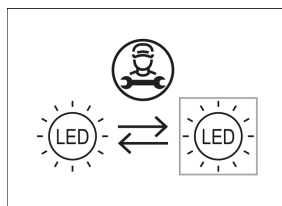


DAL-L-LK 101.830.20



Colours	Article no.	EAN
silver	660951	4043544697684



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

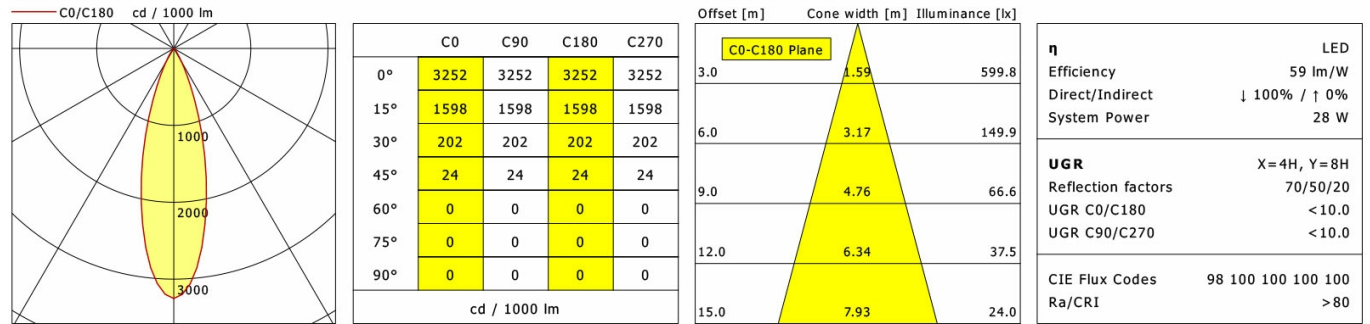
Lamps	LED Spot / CRI 80 / 3000 K
EPREL light sources	851239
Lifetime	L90 B50 50.000 h L80 B50 100.000 h L80 B20 50.000 h
System power	28.0 W
Luminaire luminous flux	max. 2350 lm
System efficiency	59.28 lm/W
Module efficiency	158.91 lm/W
UGR class	≤16
Beam angle	20°
Supply voltage	220 - 240 V / 50 - 60 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

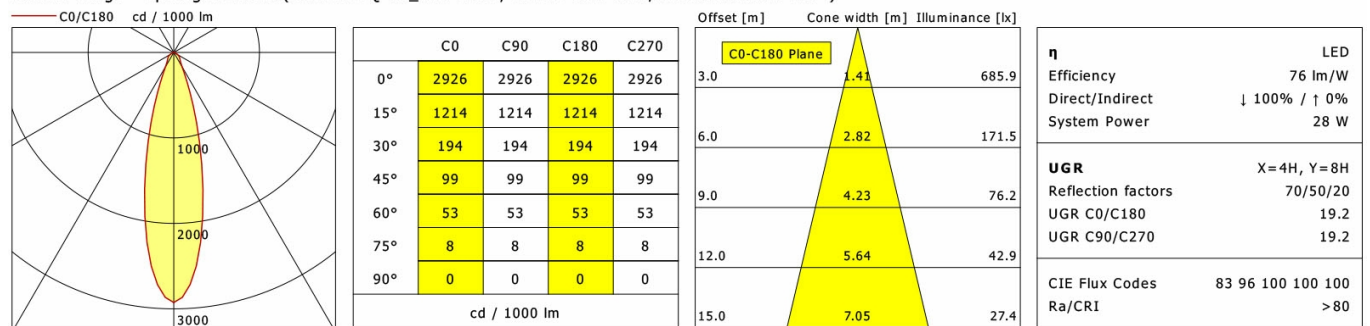
DAL-L-LK 101.830.20

Dallton Large - Spotlight Insert (DAL-L-RTR 23_SW-MATT, 1xLED 28W 830/3000K 1660lm 20 °)



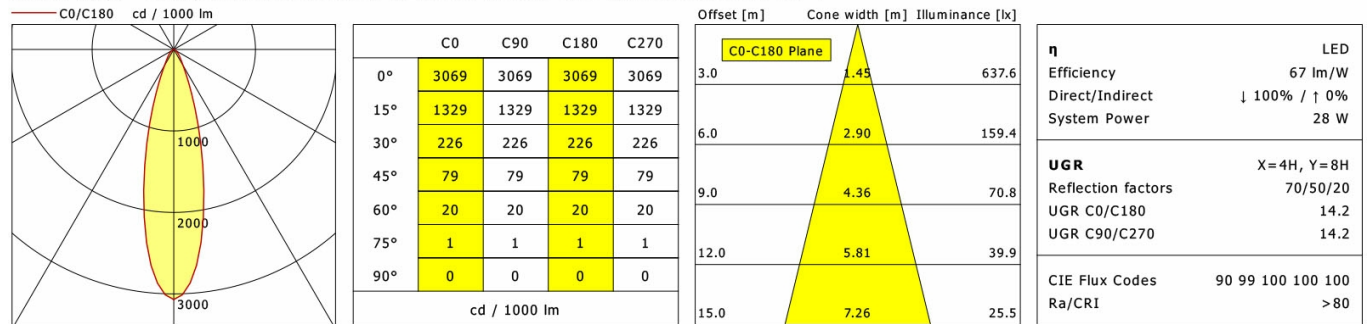
LTS

Dallton Large - Spotlight Insert (DAL-L-RTQ 13_WS-MATT, 1xLED 28W 830/3000K 2110lm 20 °)



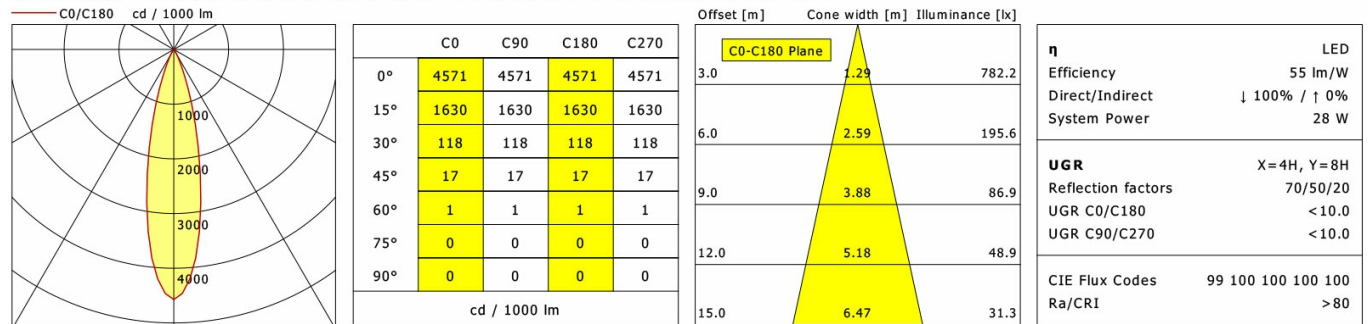
LTS

Dallton Large - Spotlight Insert (DAL-L-RTQ 13_SI-MATT, 1xLED 28W 830/3000K 1870lm 20 °)



LTS

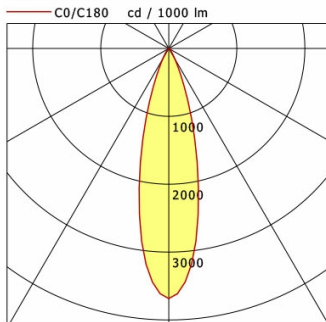
Dallton Large - Spotlight Insert (DAL-L-RTQ 13_SW-MATT, 1xLED 28W 830/3000K 1540lm 20 °)



LTS

DAL-L-LK 101.830.20

Dallton Large - Spotlight Insert (DAL-L-RTQ 13_CH-SW, 1xLED 28W 830/3000K 1840lm 20 °)



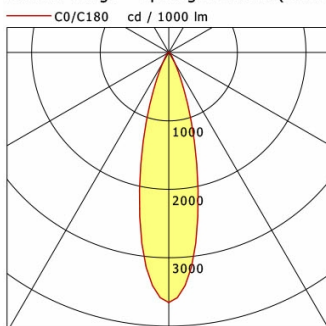
	C0	C90	C180	C270
0°	3684	3684	3684	3684
15°	1548	1548	1548	1548
30°	175	175	175	175
45°	36	36	36	36
60°	5	5	5	5
75°	0	0	0	0
90°	0	0	0	0

Offset [m]	Cone width [m]	Illuminance [lx]
3.0	1.43	753.2
6.0	2.85	188.3
9.0	4.28	83.7
12.0	5.71	47.1
15.0	7.14	30.1

η	LED
Efficiency	66 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 830/3000K 2120lm 20 °)



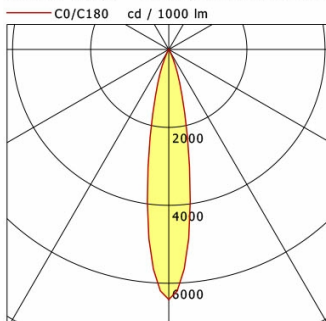
	C0	C90	C180	C270
0°	3655	3655	3655	3655
15°	1517	1517	1517	1517
30°	177	177	177	177
45°	42	42	42	42
60°	8	8	8	8
75°	0	0	0	0
90°	0	0	0	0

Offset [m]	Cone width [m]	Illuminance [lx]
3.0	1.41	860.9
6.0	2.83	215.2
9.0	4.24	95.7
12.0	5.65	53.8
15.0	7.07	34.4

η	LED
Efficiency	76 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	28 W
UGR	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	10.2
UGR C90/C270	10.2
CIE Flux Codes	95 100 100 100 100
Ra/CRI	>80

LTS

Dallton Large - Spotlight Insert (DAL-L-RFQ 13, 1xLED 28W 830/3000K 2040lm 20 °)



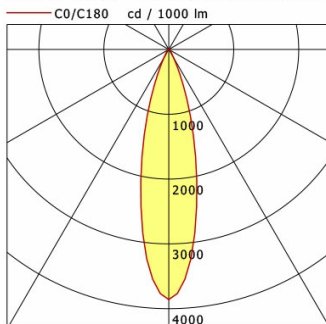
	C0	C90	C180	C270
0°	6417	6417	6417	6417
15°	1440	1440	1440	1440
30°	57	57	57	57
45°	19	19	19	19
60°	2	2	2	2
75°	0	0	0	0
90°	0	0	0	0

Offset [m]	Cone width [m]	Illuminance [lx]
3.0	1.02	1454.6
6.0	2.04	363.7
9.0	3.06	161.6
12.0	4.08	90.9
15.0	5.11	58.2

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_SI-MATT, 1xLED 28W 830/3000K 2160lm 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

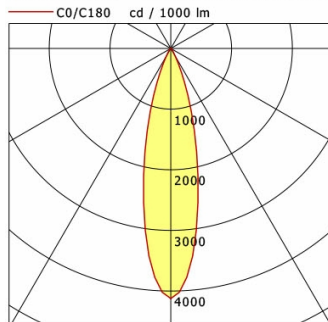
Offset [m]	Cone width [m]	Illuminance [lx]
3.0	1.36	926.1
6.0	2.72	231.5
9.0	4.08	102.9
12.0	5.45	57.9
15.0	6.81	37.0

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	11.8
UGR C90/C270	11.8
CIE Flux Codes	95 99 100 100 100
Ra/CRI	>80

LTS

DAL-L-LK 101.830.20

Dallton Large - Spotlight Insert (DAL-L-RTR 23_CH-SW, 1xLED 28W 830/3000K 2260lm 20 °)



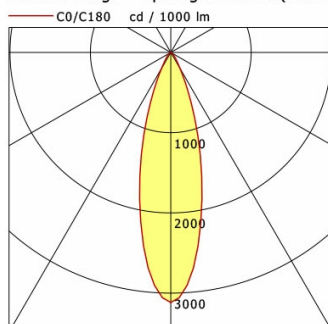
	C0	C90	C180	C270
0°	4123	4123	4123	4123
15°	1576	1576	1576	1576
30°	142	142	142	142
45°	34	34	34	34
60°	0	0	0	0
75°	0	0	0	0
90°	0	0	0	0

Offset [m]	Cone width [m]	Illuminance [lx]
3.0	1.32	1035.4
6.0	2.65	258.8
9.0	3.97	115.0
12.0	5.30	64.7
15.0	6.62	41.4

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	97 100 100 100 100
Ra/CRI	>80

LTS

Dallton Large - Spotlight Insert (DAL-L-RTR 23_CH, 1xLED 28W 830/3000K 2330lm 20 °)



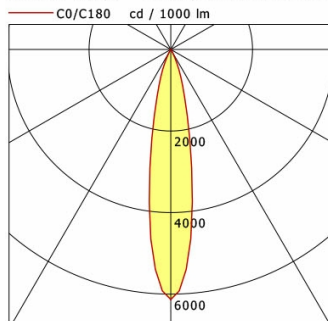
	C0	C90	C180	C270
0°	3117	3117	3117	3117
15°	1459	1459	1459	1459
30°	229	229	229	229
45°	56	56	56	56
60°	0	0	0	0
75°	0	0	0	0
90°	0	0	0	0

Offset [m]	Cone width [m]	Illuminance [lx]
3.0	1.53	806.9
6.0	3.05	201.7
9.0	4.58	89.7
12.0	6.10	50.4
15.0	7.63	32.3

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	12.8
UGR C90/C270	12.8
CIE Flux Codes	95 100 100 100 100
Ra/CRI	>80

LTS

Dallton Large - Spotlight Insert (DAL-L-RFR 23, 1xLED 28W 830/3000K 2150lm 20 °)



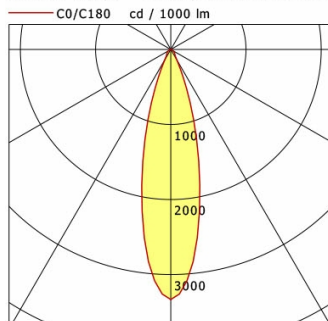
	C0	C90	C180	C270
0°	6132	6132	6132	6132
15°	1430	1430	1430	1430
30°	69	69	69	69
45°	16	16	16	16
60°	1	1	1	1
75°	0	0	0	0
90°	0	0	0	0

Offset [m]	Cone width [m]	Illuminance [lx]
3.0	1.03	1464.9
6.0	2.05	366.2
9.0	3.08	162.8
12.0	4.10	91.6
15.0	5.13	58.6

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	99 100 100 100 100
Ra/CRI	>80

LTS

Dallton Large - Spotlight Insert (DAL-L-RTR 23_WS-MATT, 1xLED 28W 830/3000K 2350lm 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	870.2
6.0	2.82	217.5
9.0	4.23	96.7
12.0	5.63	54.4
15.0	7.04	34.8

η	LED
Efficiency	84 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	28 W
UGR	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	18.0
UGR C90/C270	18.0
CIE Flux Codes	88 97 100 100 100
Ra/CRI	>80

LTS

Recessed Spotlights · Dallton Large System



DAL-L-LK 101.830.20

Accessories



DAL-L-ZBW 13.23
honeycomb louvre