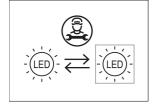


Article no.	EAN
661047	4043544698643







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) included (external placement)

Standard options



Special options



Lighting data / Norms

Lamps

Lifetime

System power Luminaire luminous flux System efficiency Module efficiency UGR class Beam angle Supply voltage Protection class Type of protection LED Spot / CRI 80 / 4000 K L90 B50 50.000 h L80 B50 100.000 h L80 B20 50.000 h 22.0 W max. 1650 lm 70.90 lm/W 160.65 lm/W ≤16 20° 220 - 240 V / 50 - 60 Hz III IP20

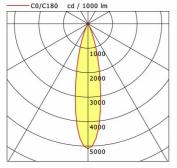
Dimensions / Weights

Outer diameter82 mmHeight103 mmRecessed depth135 mmDiameter of light head82 mmNet weight0.66 kgGross weight0.70 kg

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Dallton Small - Spotlight Insert (DAL-S-RFR 21, 1xLED 22W 840/4000K 1560lm 20 °)



	C0	C90	C180	C270
0°	5108	5108	5108	5108
15°	1640	1640	1640	1640
30°	76	76	76	76
45°	10	10	10	10
60°	1	1	1	1
75°	1	1	1	1
90°	0	0	0	0
cd / 1000 lm				

Offset [m]	Cone width [m]	Illuminance [lx]
C0-C180 Pl	ane	
3.0	1.21	885.4
6.0	2.43	221.3
9.0	3.64	98.4
12.0	4.86	55.3
15.0	6.07	35.4

3.0

6.0

9.0

12.0

15.0

3

6

9

Offset [m]

3.0

6.0

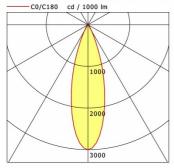
9.0

12.0

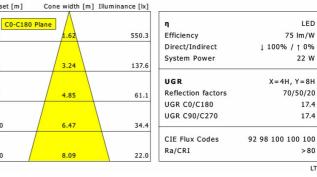
15.0

η	LED
Efficiency	71 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	22 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

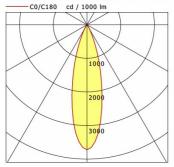
Dallton Small - Spotlight Insert (DAL-S-RTR 21_WS-MATT, 1xLED 22W 840/4000K 1650Im 20 °) Offset [m]



	C0	C90	C180	C270
0°	3002	3002	3002	3002
15°	1513	1513	1513	1513
30°	171	171	171	171
45°	51	51	51	51
60°	23	23	23	23
75°	4	4	4	4
90°	0	0	0	0
cd / 1000 lm				



Dallton Small - Spotlight Insert (DAL-S-RTR 21_CH, 1xLED 22W 840/4000K 1620Im 20 °) Offset [m]

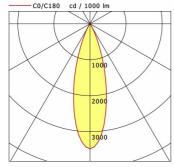


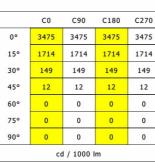
	C0	C90	C180	C270
0°	3722	3722	3722	3722
15°	1616	1616	1616	1616
30°	152	152	152	152
45°	26	26	26	26
60°	0	0	0	0
75°	0	0	0	0
90°	0	0	0	0
cd / 1000 lm				

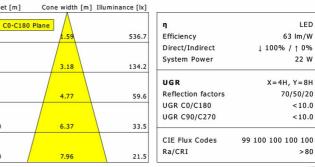
Offset [m]	Cone width [m] I	(lluminance [lx]
C0-C180 F	Plane	
3.0	1.45	669.9
		1675
5.0	2.90	167.5
9.0	4.36	74.4
12.0	5.81	41.9
15.0	7.26	26.8

η	LED
Efficiency	74 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	22 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

Dallton Small - Spotlight Insert (DAL-S-RTR 21_SW-MATT, 1xLED 22W 840/4000K 1390Im 20 °)





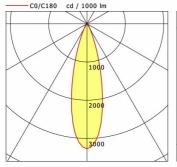


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Dallton Small - Spotlight Insert (DAL-S-RTQ 11_WS-MATT, 1xLED 22W 840/4000K 1490Im 20 °)



	C0	C90	C180	C270
0°	3270	3270	3270	3270
15°	1430	1430	1430	1430
30°	156	156	156	156
45°	64	64	64	64
60°	36	36	36	36
75°	5	5	5	5
90°	0	0	0	0
cd / 1000 lm				

JK 1490lm	20°)	
Offset [m]	Cone width [m] Illu	uminance [lx]
C0-C18	0 Plane	F 41 4
3.0	1.48	541.4
6.0	2.95	135.3
9.0	4.43	60.2
12.0	5.90	33.8
15.0	7.38	21.7

3.0

6.0

9.0

12.0

15.0

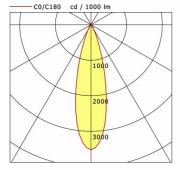
3.0

6.0

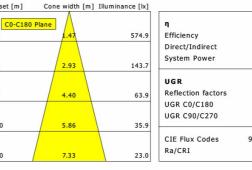
9.0

η	LEI		
Efficiency	68 lm/W		
Direct/Indirect	↓ 100% / ↑ 0%		
System Power	22 W		
UGR	X=4H, Y=8H		
Reflection factors	70/50/20		
UGR C0/C180	18.1		
UGR C90/C270	18.1		
CIE Flux Codes	89 97 100 100 100		
Ra/CRI	> 80		

Dallton Small - Spotlight Insert (DAL-S-RTQ 11_SI-MATT, 1xLED 22W 840/4000K 1470Im 20 °) Offset [m]

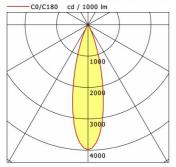


	C0	C90	C180	C270
0°	3520	3520	3520	3520
15°	1522	1522	1522	1522
30°	167	167	167	167
45°	48	48	48	48
60°	14	14	14	14
75°	1	1	1	1
90°	0	0	0	0
cd / 1000 lm				

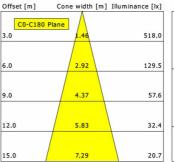


η	LED 67 Im/W ↓ 100% / ↑ 0%	
Efficiency		
Direct/Indirect		
System Power	22 W	
UGR	X=4H, Y=8H	
Reflection factors	70/50/20	
UGR C0/C180	13.2	
UGR C90/C270	13.2	
CIE Flux Codes	94 99 100 100 100	
Ra/CRI	>80	

Dallton Small - Spotlight Insert (DAL-S-RTQ 11_SW-MATT, 1xLED 22W 840/4000K 1170Im 20 °)

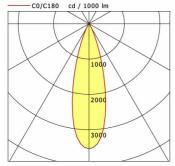


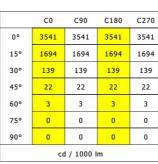
	C0	C90	C180	C270
0°	3984	3984	3984	3984
15°	1703	1703	1703	1703
30°	129	129	129	129
45°	11	11	11	11
60°	0	0	0	0
75°	0	0	0	0
90°	0	0	0	0
	co	i / 1000 I	m	

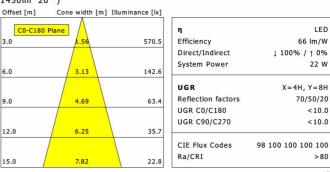


η	LE	
Efficiency	53 lm/W	
Direct/Indirect	↓ 100% / ↑ 0%	
System Power	22 W	
UGR	X=4H, Y=8H	
Reflection factors 70/5		
UGR C0/C180	<10.0	
UGR C90/C270	<10.0	
CIE Flux Codes	99 100 100 100 100	
Ra/CRI	> 80	

Dallton Small - Spotlight Insert (DAL-S-RTQ 11_CH-SW, 1xLED 22W 840/4000K 1450Im 20 °)

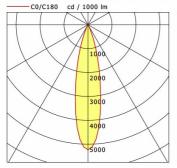








Dallton Small - Spotlight Insert (DAL-S-RFQ 11, 1xLED 22W 840/4000K 1530lm 20 °)



	C0	C90	C180	C270
0°	5232	5232	5232	5232
15°	1683	1683	1683	1683
30°	55	55	55	55
45°	11	11	11	11
60°	3	3	3	3
75°	1	1	1	1
90°	0	0	0	0
	co	i / 1000 I	m	

Offset [m]	Cone width [m] I	lluminance [lx]
C0-C180	Plane 1.22	889.5
6.0	2.43	222.4
9.0	3.65	98.8
12.0	4.87	55.6
15.0	6.08	35.6

3.0

6.0

9.0

Offset [m]

3.0

6.0

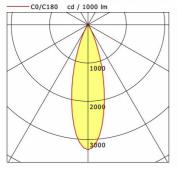
9.0

12.0

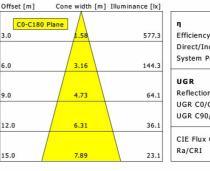
15.0

η	LED
Efficiency	70 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	22 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

Dallton Small - Spotlight Insert (DAL-S-RTR 21_SI-MATT, 1xLED 22W 840/4000K 1590lm 20 °)

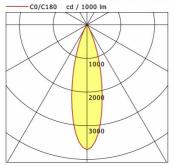


	C0	C90	C180	C270
0°	3268	3268	3268	3268
15°	1593	1593	1593	1593
30°	171	171	171	171
45°	37	37	37	37
60°	6	6	6	6
75°	0	0	0	0
90°	0	0	0	0
	cc	i / 1000 I	m	



η	LE	
Efficiency	72 lm/W	
Direct/Indirect	↓ 100% / ↑ 0%	
System Power	22 W	
UGR	X=4H, Y=8H	
Reflection factors	70/50/20	
UGR C0/C180	12.4	
UGR C90/C270	12.4	
CIE Flux Codes	96 100 100 100 100	
Ra/CRI	> 80	

Dallton Small - Spotlight Insert (DAL-S-RTR 21_CH-SW, 1xLED 22W 840/4000K 1570Im 20 °)

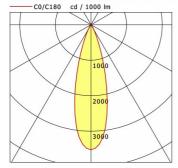


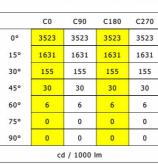
	C0	C90	C180	C270
0°	3713	3713	3713	3713
15°	1640	1640	1640	1640
30°	149	149	149	149
45°	22	22	22	22
60°	0	0	0	0
75°	0	0	0	0
90°	0	0	0	0
	co	/ 1000	m	

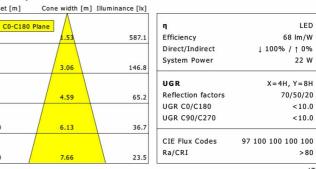
570111 20	,		
Offset [m]	Cone width [m]	Illuminance [lx]	
C0-C180 P			
3.0	1.47	647.6	
	2.94	161.9	
5.0	2.94	161.9	╞
9.0	4.41	72.0	
12.0	5.88	40.5	
12.10	5.00	10.5	I
15.0	7.35	25.9	

η	LED
Efficiency	72 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	22 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

Dallton Small - Spotlight Insert (DAL-S-RTQ 11_CH, 1xLED 22W 840/4000K 1500Im 20 °)







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Recessed Spotlights · Dallton Small System



DAL-S-LK 101.840.20

Accessories



DAL-S-ZBW 11.21 honeycomb louvre