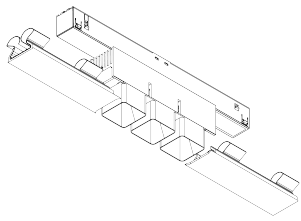
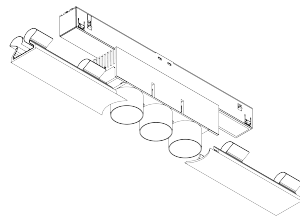


IN-SET

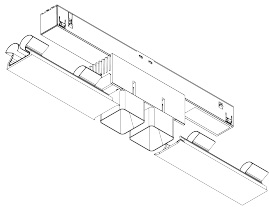
3x1, 2x1 models with cover set



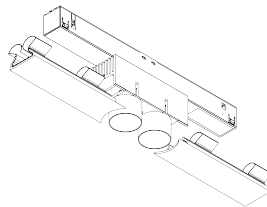
9.T.3141



9.T.3101

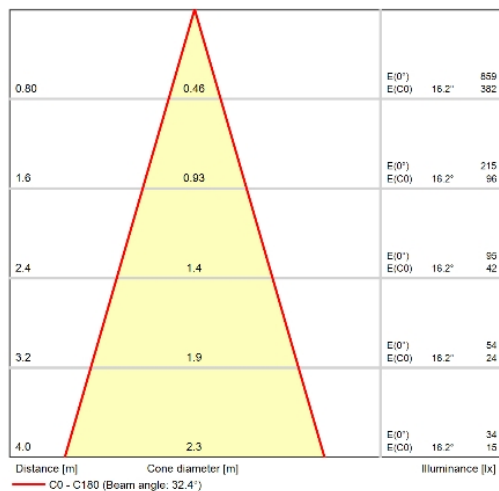


9.T.2141

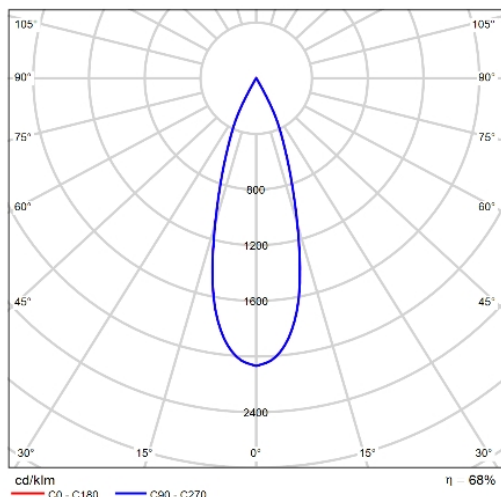


9.T.2101

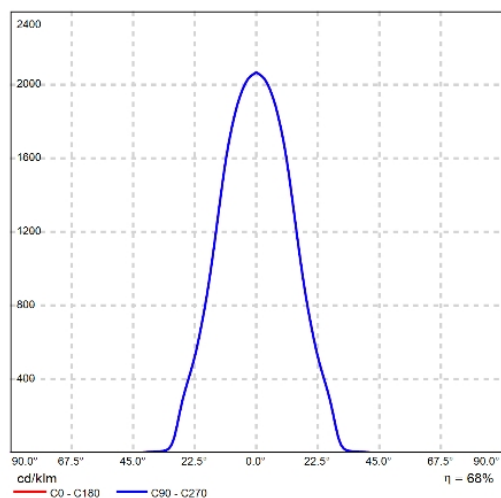
CONE DIAGRAM



POLAR LDC



LINEAR LDC



DESCRIPTION

IN-SET 3x1, 2x1 recessed square downlight with cover set, narrow beam TIR-lenses 15°

FIXTURE

housing finish	BL black anodised
visor + base finish	BL black anodised GO gold anodised GM gun metal anodised BR bronze anodised

IP Rating IP44

ELECTRICAL FEATURES

9.T.2141	9T.3141
9.T.2101	9.T.3101

Power D DALI (driver included)

Current **V4** constant voltage 48v **V4** constant voltage 48v

LIGHT SOURCE (data at 3000°K)

Power (700 mA)	3,95 W	5,93 W
Power (1000 mA)	5,78 W	8,67 W
Source Flux (700 mA)	424 lm	636 lm
Source Flux (1000 mA)	576 lm	864 lm
Luminaire Flux (700 mA)	276,36 lm	427,21 lm
Luminaire Flux (1000 mA)	375,80 lm	581,38 lm
Source Efficacy (700 mA)	107,34 lm/W	107,25 lm/W
Source Efficacy (1000 mA)	99,65 lm/W	99,65 lm/W
Luminaire Efficacy (700 mA)	69,96 lm/W	72,04 lm/W
Luminaire Efficacy (1000 mA)	65,02 lm/W	67,06 lm/W
Optical Efficiency (700 mA)	%65,18	%67,17
Optical Efficiency (1000 mA)	%65,24	%67,29

LED Temperature 7A 2700°K
3A 3000°K
8A 4000°K

CRI 97

R09 90

UGR < 6 2x1, 3x1 rounded
< 16 2x1, 3x1 squary

OPTICS

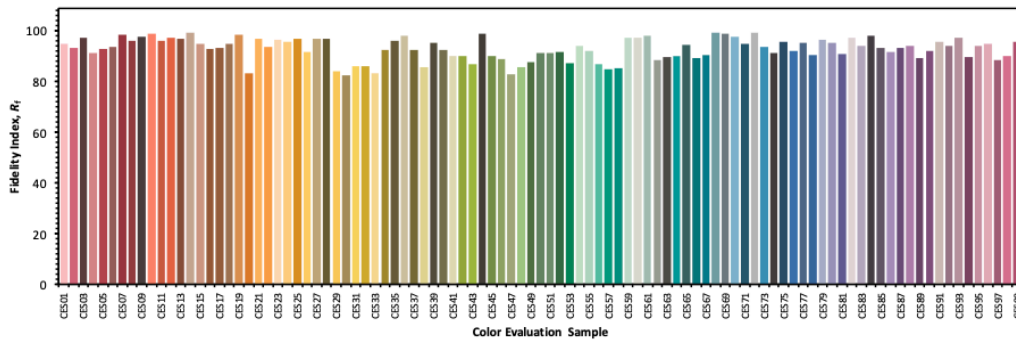
Beam Angle 1 15 degree beam

UGR VALUES

Glare evaluation according to UGR											
ρ Ceiling		70	70	50	50	30	70	70	50	50	30
ρ Walls		50	30	50	30	30	50	30	50	30	30
ρ Floor		20	20	20	20	20	20	20	20	20	20
Room size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	10.9	11.6	11.1	11.8	12.0	-1.9	-1.1	-1.6	-0.9	-0.7
	3H	10.7	11.4	11.0	11.6	11.9	-2.0	-1.3	-1.7	-1.1	-0.9
	4H	10.7	11.3	11.0	11.6	11.8	-2.1	-1.4	-1.8	-1.2	-0.9
	6H	10.6	11.2	10.9	11.5	11.7	-2.2	-1.6	-1.8	-1.3	-1.0
	8H	10.5	11.1	10.9	11.4	11.7	-2.2	-1.6	-1.9	-1.3	-1.0
	12H	10.5	11.1	10.8	11.4	11.7	-2.2	-1.7	-1.9	-1.4	-1.1
4H	2H	10.7	11.3	11.0	11.6	11.8	-2.1	-1.4	-1.8	-1.2	-0.9
	3H	10.5	11.1	10.8	11.4	11.7	-2.2	-1.7	-1.9	-1.4	-1.1
	4H	10.4	10.9	10.8	11.2	11.6	-2.3	-1.8	-1.9	-1.5	-1.1
	6H	10.3	10.8	10.7	11.1	11.5	-2.4	-2.0	-2.0	-1.6	-1.2
	8H	10.3	10.7	10.7	11.1	11.5	-2.5	-2.1	-2.0	-1.7	-1.3
	12H	10.2	10.6	10.7	11.0	11.4	-2.5	-2.1	-2.1	-1.7	-1.3
8H	4H	10.3	10.7	10.7	11.1	11.5	-2.5	-2.1	-2.0	-1.7	-1.3
	6H	10.2	10.5	10.7	10.9	11.4	-2.5	-2.2	-2.1	-1.8	-1.4
	8H	10.2	10.4	10.6	10.9	11.3	-2.6	-2.3	-2.1	-1.9	-1.4
	12H	10.1	10.3	10.6	10.8	11.3	-2.6	-2.4	-2.1	-1.9	-1.4
12H	4H	10.2	10.6	10.7	11.0	11.4	-2.5	-2.1	-2.1	-1.7	-1.3
	6H	10.2	10.4	10.6	10.9	11.3	-2.6	-2.3	-2.1	-1.9	-1.4
	8H	10.1	10.3	10.6	10.8	11.3	-2.6	-2.4	-2.1	-1.9	-1.4
Variation of the observer position for the luminaire distances S											
S = 1.0H		+6.6 / -16.2					+3.2 / -5.1				
S = 1.5H		+9.4 / -91.0					+5.9 / -78.2				
S = 2.0H		+11.4 / -89.0					+7.9 / -76.2				
Standard table		BK00					BK00				
Correction summand		-9.2					-22.0				
Corrected glare indices referring to 1344lm Total luminous flux											

*Black54 reserves the right of discontinuing or replacing products inside this database

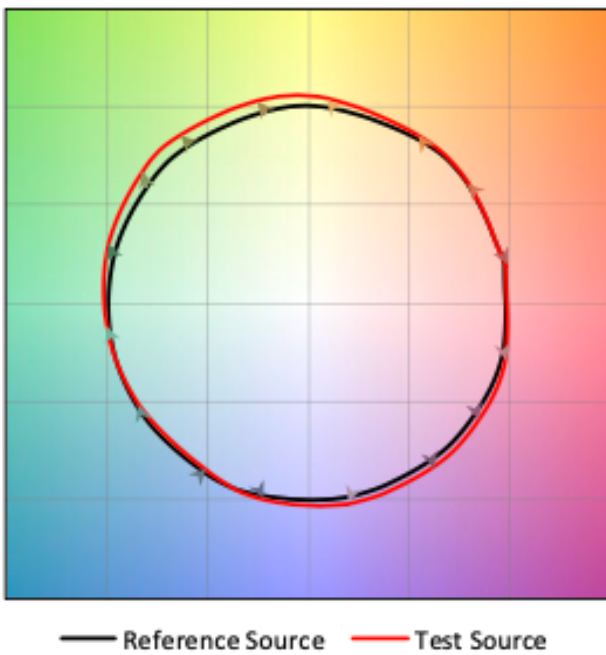
COLOR FIDELITY BY SAMPLE



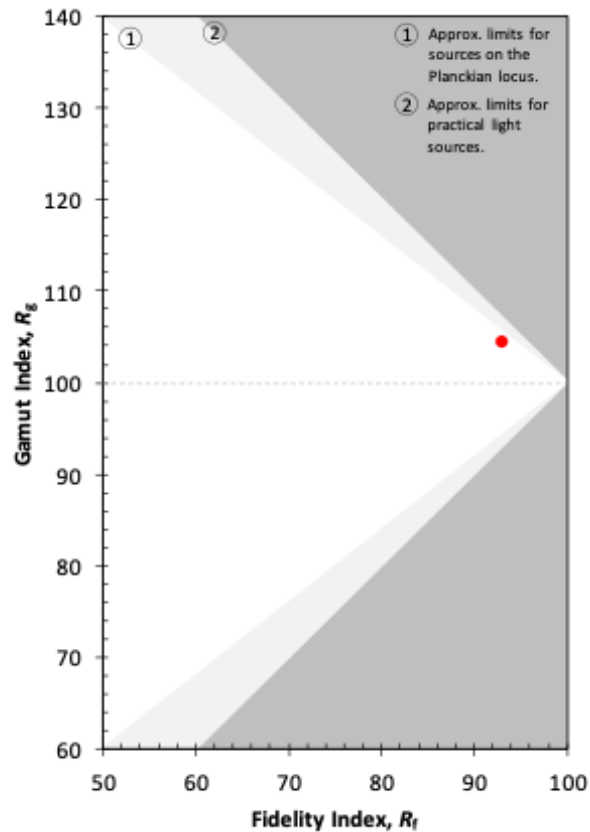
u'	0,2604
v'	0,5270
x	0,4569
y	0,4110
Δuv	0,0004
R9	90

Rg@2700K	99
Rf@2700K	91

COLOR VECTOR GRAPHIC



FIDELITY INDEX

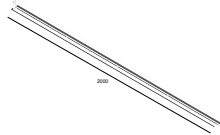
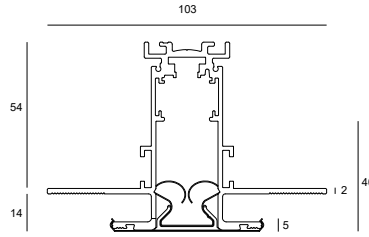
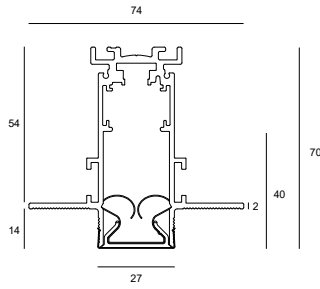


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PRODUCT CODES FOR ORDER INFORMATION

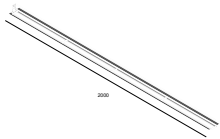
	model	beam angle	housing finish	visor/base finish	LED temperature	power	current
	314 IN-SET 3x1 squary with cover set 310 IN-SET 3x1 rounded with cover set 214 IN-SET 2x1 Squary with cover set 210 IN-SET 2x1 rounded with cover set	1 15° beam	BL black anodised	BL black anodised GO gold anodised GM gun metal anodised BR bronze anodised	7A 2700°K 3A 3000°K 8A 4000°K	D DALI (driver included)	V4 constant voltage 48v
9 T .			.				

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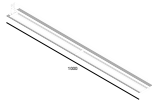
7T.2020.BLO

recessed track for dry ceilings 2 meter (48V + dali)



7T.1020.BLO

recessed track for gypsum ceilings 2 meter (48V + dali)



7T.1010.BLO

recessed track for gypsum ceilings 1 meter (48V + dali)



7T.0100.BLO

set of endocarps (2p)



7T.0110.BLO

electrical feeder



7T.0120.BLO

electrical coupler



7T.0130.BLO

mechanical coupler (2p)



7T.0140.BLO

hanging set for track (2p)



7T.9900

cutting tool for shortening conductors

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