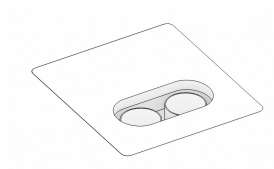
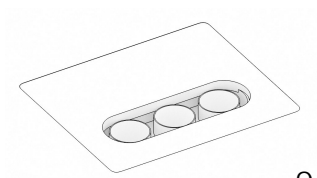


UP-SET

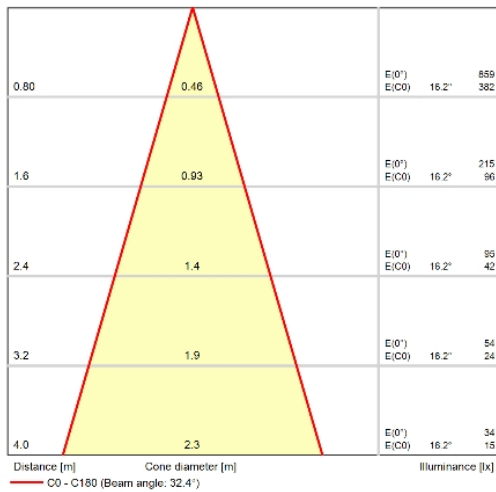
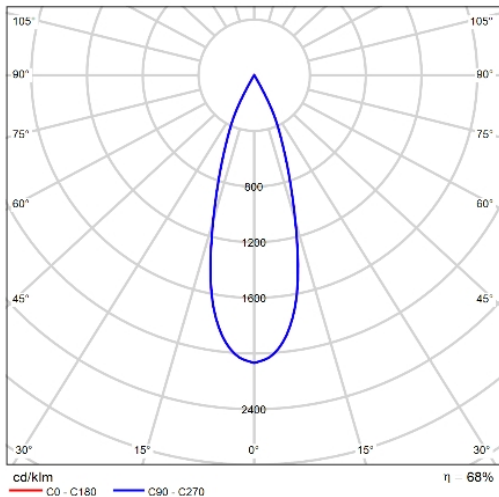
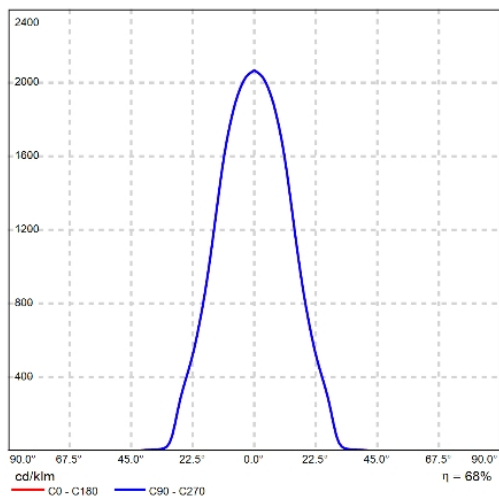
2x1, 3x1



9.U.1021



9.U.1031

CONE (calculation for single LED source)**POLAR LDC** (calculation for single LED source)**LINEAR LDC** (calculation for single LED source)**DESCRIPTION**

UP-SET 2x1, 3x1 recessed inground fixture.

FIXTURE

housing finish	vG glass grey metallic
	vN glass nickel metallic
	vB glass brass metallic
	vT glass terra cotta metallic
IP rating	IP67 (only indoor application)

ELECTRICAL FEATURES

	9.U.1021	9.U.1031
Power	E dimmable (driver excluded)	
Current	V2 constant voltage 24v	V2 constant voltage 24v

LIGHT SOURCE (data at 3000°K)

LED Quantity	2	3
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	89,8
UGR	< 6

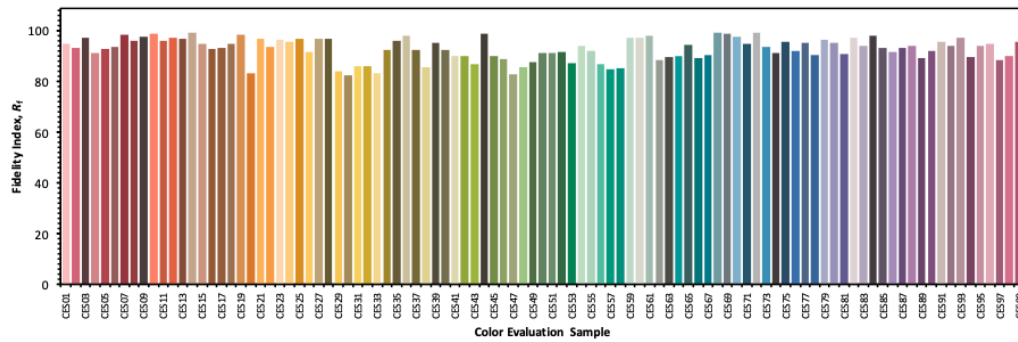
OPTICS

Beam Angle	1 15 degree
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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											

COLOR FIDELITY BY SAMPLE



u' 0,2604

v' 0,5270

x 0,4569

y 0,4110

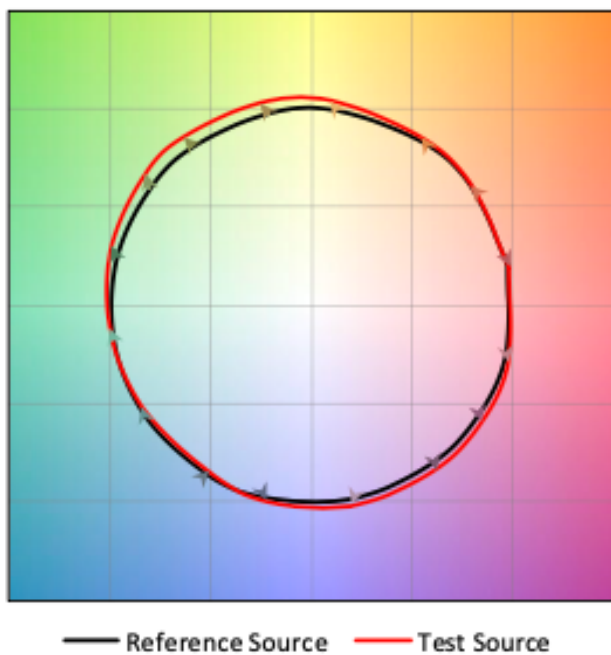
Δuv 0,0004

R9 89,8

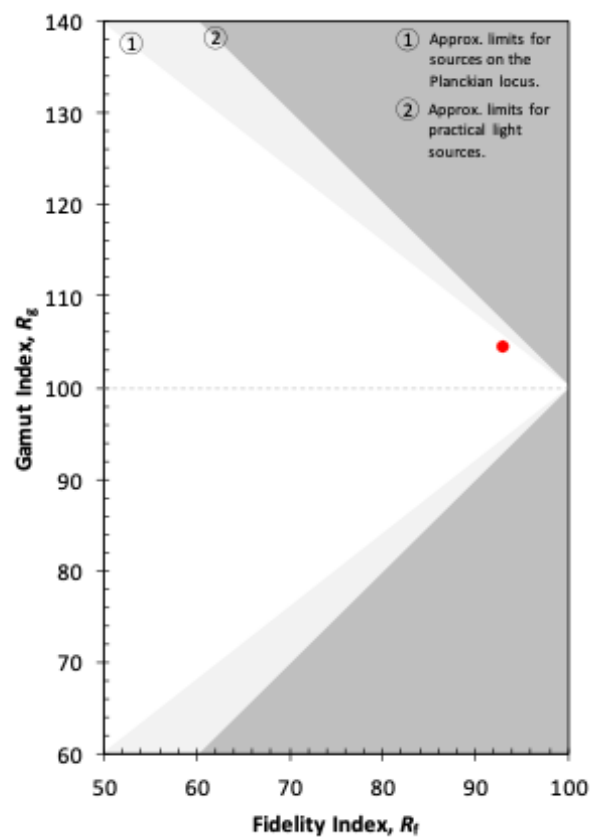
Rg@2700K 99

Rf@2700K 91

COLOR VECTOR GRAPHIC



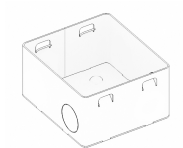
FIDELITY INDEX



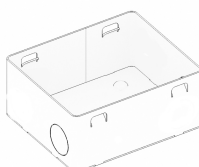
PRODUCT CODES FOR ORDER INFORMATION

			model	beam angle	housing finish	visor/base finish	LED temperature	power	current
			102 UP-SET 2x1 103 UP-SET 3x1	1 15° beam	-	vG glass grey metallic vN glass nickel metallic vB glass brass metallic vT glass terra cotta metallic	7A 2700°K 3A 3000°K 8A 4000°K	E dimmable (driver excluded)	V2 constant voltage 24v
9	.	U	.		.				

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

**7.U.102**

installation housing 90 x 100 x 52 mm

**7.U.103**

installation housing 120 x 100 x 52 mm