

**Luminaire**

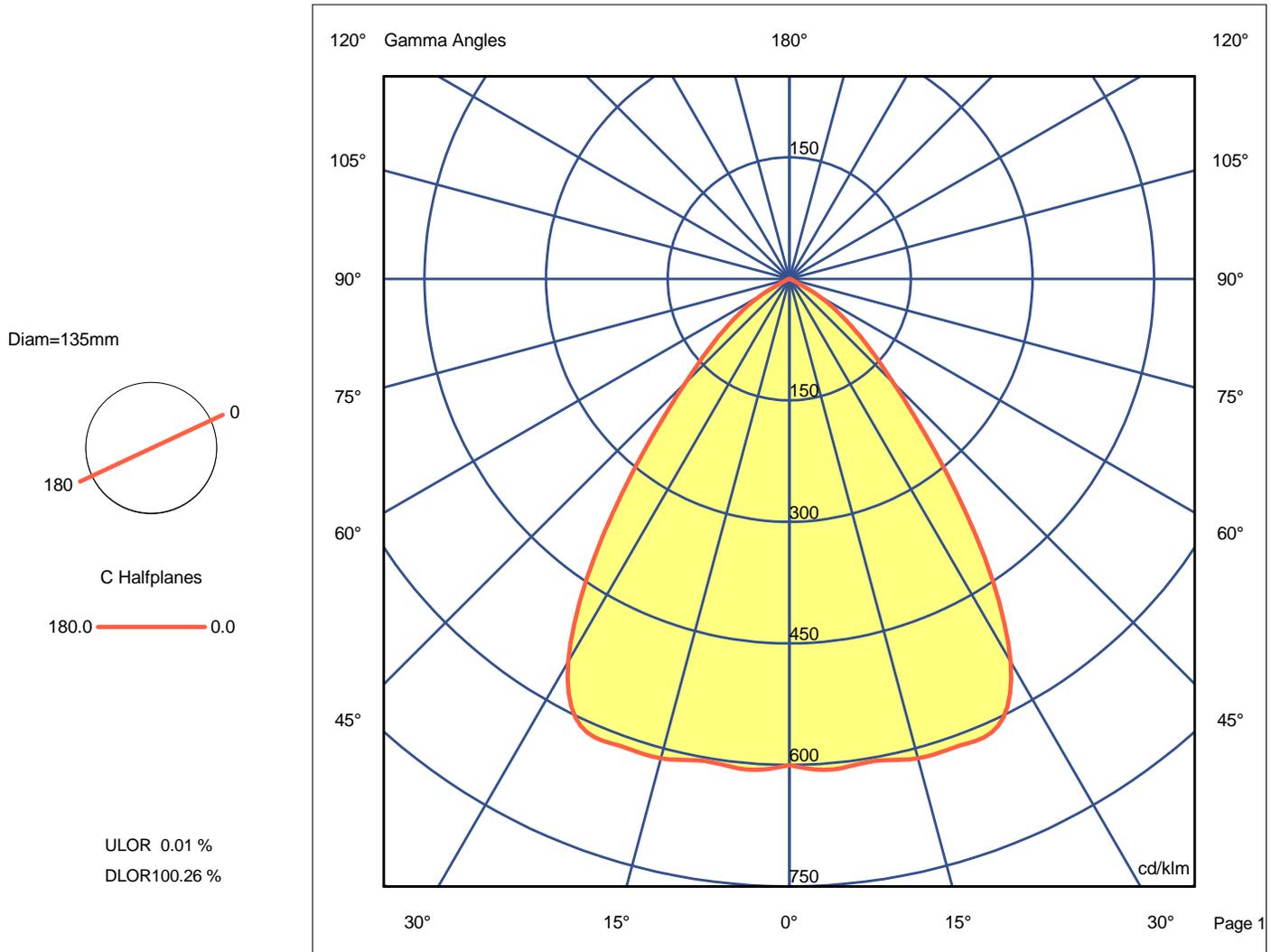
Code VDL1B 12W  
Name VDL1B 12W

**Measurement**

Code VDL1B 12W  
Name VDL1B 12W

Luminaire Flux	1413.72 lm	Luminaire Power	12.30 W	Efficacy	114.94 lm/W	Efficiency	100.26%
Lamps Flux	1410.00 lm	Maximum value	613.20 cd/klm	Position	C=0.00 G=20.00	CG	Rotosymmetrical
Round Luminaire		Diam.	135 mm	Height	1 mm		
Round Luminous Area		Diam.	135 mm	Height	0 mm		
Horizontal Luminous Area		0.014314 m2		Emitting area on Plane 180°		0.000000 m2	
Emitting area on Plane 0°		0.000000 m2		Emitting area on Plane 270°		0.000000 m2	
Emitting area on Plane 90°		0.000000 m2		Glare area at 76°		0.003463 m2	
Coordinate system		CG		Symmetry Type		Rotosymmetrical	
Date		27-01-2000		Maximum Gamma Angle		180	
Measurement Distance		0.00		Measurement Flux		1410.00 lm	
Operator				Source Voltage [V]			
Temperature		25.00 °C		Source current [A]			
Humidity		60.00 %		Photocell			
Notes							

Line		Code		Luminaire Lamps		Flux [lm]	Pow. [W]	Q.ty
		CHAL_1410 12C3W		Name CHAL_1410 12C3W		1410.00	12.30	1
C.I.E.	79 98 100 100 100			D DIN 5040		A60		
F UTE	1.00 B			B NBN		BZ 1		



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**Measurment**

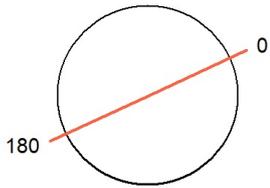
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Lamps Flux	1410.00 lm	Maximum value	613.20 cd/klm	Position	C=0.00 G=20.00	CG	Rotosymmetrical

**Luminous Intensity Table cd/klm Table 1/1**

C 0.00	
G 0.0	600.10
G 5.0	607.80
G 10.0	604.20
G 15.0	612.60
G 20.0	613.20
G 25.0	609.00
G 30.0	545.50
G 35.0	419.70
G 40.0	282.10
G 45.0	182.30
G 50.0	122.00
G 55.0	77.20
G 60.0	42.10
G 65.0	8.70
G 70.0	4.30
G 75.0	3.00
G 80.0	1.60
G 85.0	0.80
G 90.0	0.20
G 95.0	0.00
G100.0	0.00
G105.0	0.00
G110.0	0.00
G115.0	0.00
G120.0	0.00
G125.0	0.00
G130.0	0.00
G135.0	0.00
G140.0	0.00
G145.0	0.00
G150.0	0.00
G155.0	0.00
G160.0	0.00
G165.0	0.00
G170.0	0.00
G175.0	0.00
G180.0	0.00

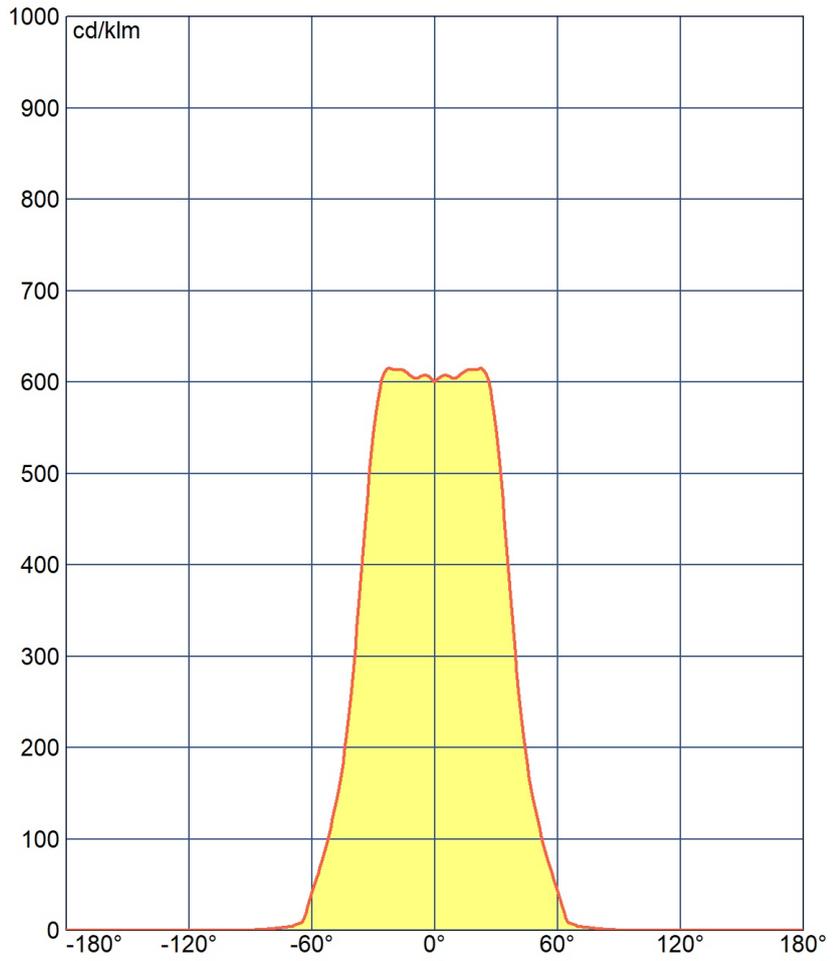
Diam=135mm



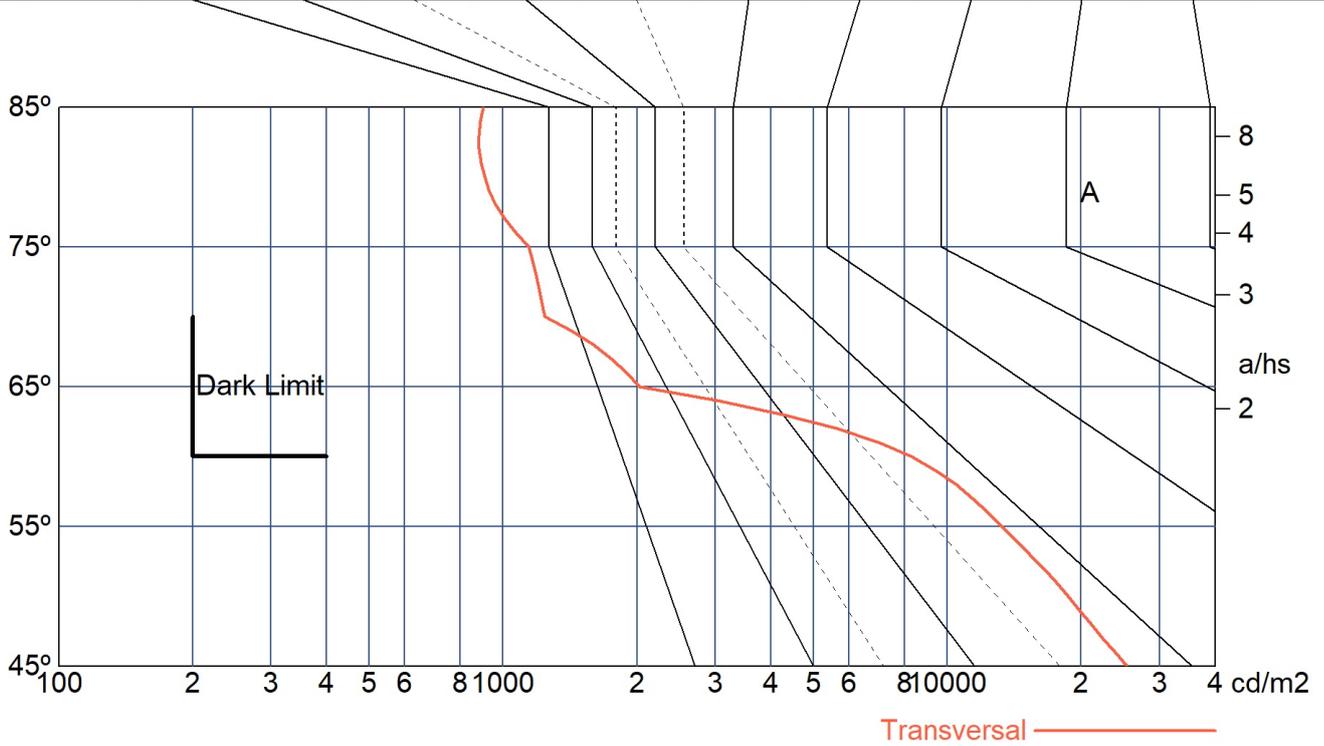
C Halfplanes

180.0 ——— 0.0

Flux 1410.00 lm  
Maximum 613.20 cd/klm  
Position C=0.00 G=20.00  
Efficiency: 100.26%  
Date: 27-01-2000  
Rotosymmetrical



Flush mounted or longitudinal view												
		Illumination(lx)										
A	A	2000	1000	750	500		<300					1.15
B	1		2000	1500	1000	750	500	<300				1.5
C					2000		1000	500	<300			1.85
D	2						2000	1000	500	<300		2.2
E	3							2000	1000	500	<300	2.55



0.5	0.81	E(0°) E(C0)	39.1°	3385 809
1.0	1.63	E(0°) E(C0)	39.1°	846 202
1.5	2.44	E(0°) E(C0)	39.1°	376 90
2.0	3.25	E(0°) E(C0)	39.1°	212 51
2.5	4.06	E(0°) E(C0)	39.1°	135 32
3.0	4.88	E(0°) E(C0)	39.1°	94 22

Distance [m]

Cone Diameter [m]

Illuminance [lx]

— C0 - C180 (Half value angle: 78.2°)

## Glare Evaluation According to UGR

$\rho$ Ceiling	70	70	50	50	30	70	70	50	50	30	
$\rho$ Walls	50	30	50	30	30	50	30	50	30	30	
$\rho$ 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	20.7	21.6	21.0	21.8	22.0	20.7	21.6	21.0	21.8	22.0
	3H	20.6	21.4	20.9	21.6	21.9	20.6	21.4	20.9	21.6	21.9
	4H	20.5	21.3	20.8	21.5	21.8	20.5	21.3	20.8	21.5	21.8
	6H	20.5	21.1	20.8	21.4	21.7	20.5	21.1	20.8	21.4	21.7
	8H	20.4	21.1	20.8	21.4	21.7	20.4	21.1	20.8	21.4	21.7
	12H	20.4	21.0	20.7	21.3	21.6	20.4	21.0	20.7	21.3	21.6
4H	2H	20.6	21.4	20.9	21.6	21.9	20.6	21.4	20.9	21.6	21.9
	3H	20.5	21.1	20.9	21.4	21.8	20.5	21.1	20.9	21.4	21.8
	4H	20.5	21.0	20.8	21.3	21.7	20.5	21.0	20.8	21.3	21.7
	6H	20.4	20.8	20.8	21.2	21.6	20.4	20.8	20.8	21.2	21.6
	8H	20.4	20.8	20.8	21.2	21.6	20.4	20.8	20.8	21.2	21.6
	12H	20.3	20.7	20.8	21.1	21.5	20.3	20.7	20.8	21.1	21.5
8H	4H	20.4	20.8	20.8	21.1	21.5	20.4	20.8	20.8	21.1	21.5
	6H	20.3	20.6	20.7	21.0	21.5	20.3	20.6	20.7	21.0	21.5
	8H	20.2	20.5	20.7	21.0	21.4	20.2	20.5	20.7	21.0	21.4
	12H	20.2	20.4	20.7	20.9	21.4	20.2	20.4	20.7	20.9	21.4
12H	4H	20.3	20.7	20.8	21.1	21.5	20.3	20.7	20.8	21.1	21.5
	6H	20.2	20.5	20.7	21.0	21.4	20.2	20.5	20.7	21.0	21.4
	8H	20.2	20.4	20.7	20.9	21.4	20.2	20.4	20.7	20.9	21.4

Variation of the observer position for the luminaire distance S

S = 1.0H	+1.8 / -2.7	+1.8 / -2.7
S = 1.5H	+3.7 / -7.7	+3.7 / -7.7
S = 2.0H	+5.7 / -12.3	+5.7 / -12.3
Standard table	BK00	BK00
Correction summand	2.2	2.2

Corrected glare indices referring to 1410lm total luminous flux