

**Luminaire**

Code VTL3 15W  
Name VTL3 15W

**Measurment.**

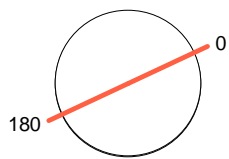
Code VTL3 15W  
Name VTL3 15W

Luminaire Flux	1741.29 lm	Luminaire Power	15.00 W	Efficacy	116.09 lm/W	Efficiency	100.07%
Lamps Flux	1740.00 lm	Maximum value	3405.60 cd/klm	Position	C=0.00 G=0.00	CG	Rotosymmetrical
Round Luminaire		Diam.	80 mm	Height	1 mm		
Round Luminous Area		Diam.	80 mm	Height	0 mm		
Horizontal Luminous Area		0.005027 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°		0.001216 m2	
Coordinate system		CG		Symmetry Type		Rotosymmetrical	
Date		27-01-2000		Maximum Gamma Angle		180	
Measurement Distance		0.00		Measurement Flux		1740.00 lm	
Operator				Source Voltage [V]			
Temperature		25.00 °C		Source current [A]			
Humidity		60.00 %		Photocell			
Notes							

**Luminaire Lamps**

Line	Code	Name	Flux [lm]	Pow. [W]	Q.ty
	TNCS_FL_S3K 15C6W	TNCS_FL_S3K 15C6W	1740.00	15.00	1
C.I.E.	94 98 100 100 100	D DIN 5040	A60		
F UTE	1.00 A	B NBN	BZ 1		

Diam=80mm

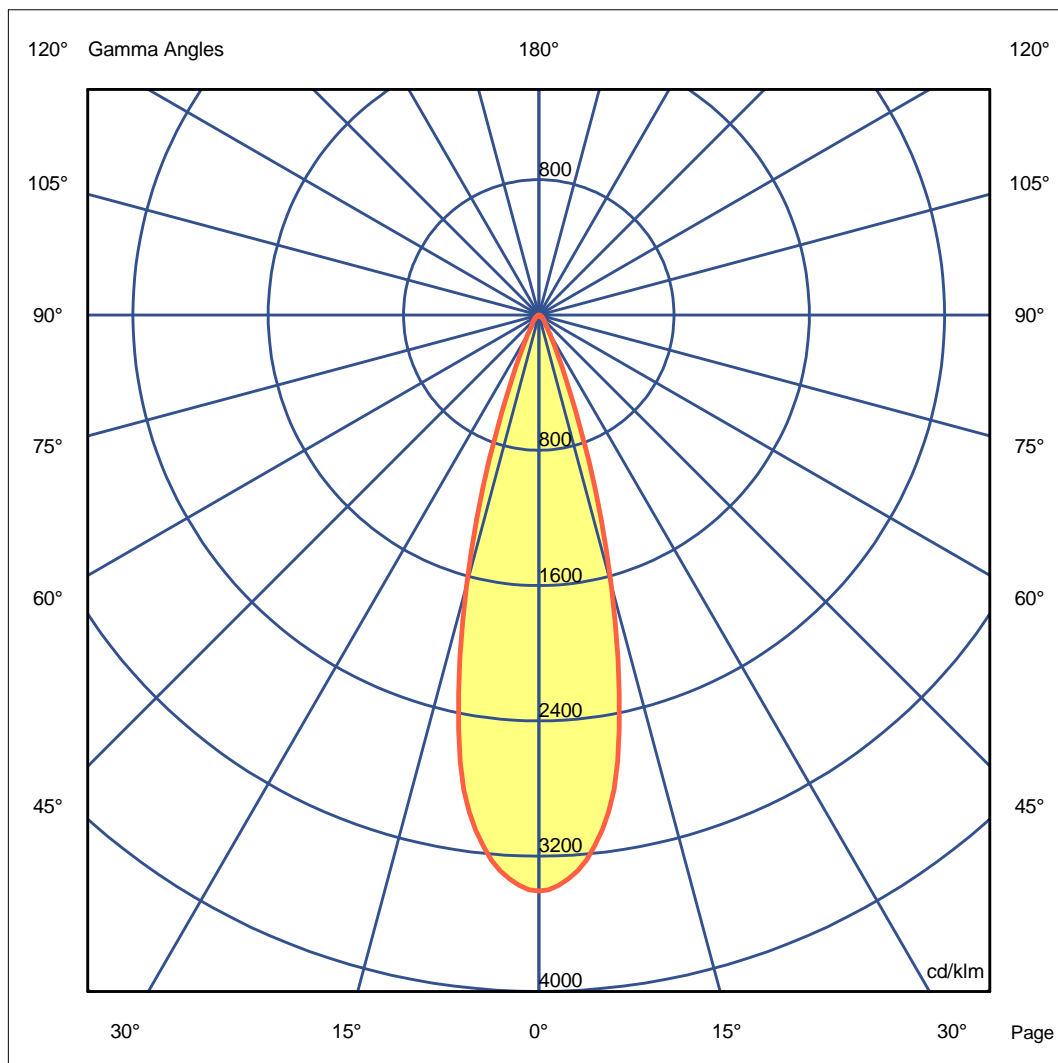


C Halfplanes

180.0 — 0.0

ULOR 0.00 %

DLOR100.07 %



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Code VTL3 15W  
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**Measurment**

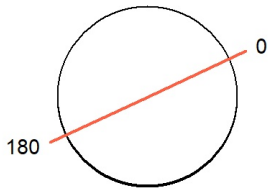
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Name VTL3 15W

Luminaire Flux	1741.29 lm	Luminaire Power	15.00 W	Efficacy	116.09 lm/W	Efficiency	100.07%
Lamps Flux	1740.00 lm	Maximum value	3405.60 cd/klm	Position	C=0.00 G=0.00	CG	Rotosymmetrical

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

C 0.00		C 0.00		C 0.00		C 0.00	
G 0.0	3405.60	G 46.0	39.40	G 92.0	0.00	G 138.0	0.00
G 1.0	3398.20	G 47.0	37.20	G 93.0	0.00	G 139.0	0.00
G 2.0	3373.30	G 48.0	35.10	G 94.0	0.00	G 140.0	0.00
G 3.0	3337.80	G 49.0	33.00	G 95.0	0.00	G 141.0	0.00
G 4.0	3293.30	G 50.0	30.90	G 96.0	0.00	G 142.0	0.00
G 5.0	3234.00	G 51.0	28.90	G 97.0	0.00	G 143.0	0.00
G 6.0	3156.70	G 52.0	26.90	G 98.0	0.00	G 144.0	0.00
G 7.0	3067.00	G 53.0	25.00	G 99.0	0.00	G 145.0	0.00
G 8.0	2965.30	G 54.0	23.20	G 100.0	0.00	G 146.0	0.00
G 9.0	2840.10	G 55.0	21.50	G 101.0	0.00	G 147.0	0.00
G 10.0	2681.60	G 56.0	19.90	G 102.0	0.00	G 148.0	0.00
G 11.0	2492.50	G 57.0	18.40	G 103.0	0.00	G 149.0	0.00
G 12.0	2287.30	G 58.0	16.90	G 104.0	0.00	G 150.0	0.00
G 13.0	2076.80	G 59.0	15.40	G 105.0	0.00	G 151.0	0.00
G 14.0	1863.30	G 60.0	14.40	G 106.0	0.00	G 152.0	0.00
G 15.0	1652.60	G 61.0	13.40	G 107.0	0.00	G 153.0	0.00
G 16.0	1450.70	G 62.0	12.60	G 108.0	0.00	G 154.0	0.00
G 17.0	1256.60	G 63.0	11.80	G 109.0	0.00	G 155.0	0.00
G 18.0	1071.50	G 64.0	11.10	G 110.0	0.00	G 156.0	0.00
G 19.0	900.70	G 65.0	10.30	G 111.0	0.00	G 157.0	0.00
G 20.0	732.00	G 66.0	9.60	G 112.0	0.00	G 158.0	0.00
G 21.0	601.50	G 67.0	9.00	G 113.0	0.00	G 159.0	0.00
G 22.0	491.20	G 68.0	8.30	G 114.0	0.00	G 160.0	0.00
G 23.0	403.00	G 69.0	7.80	G 115.0	0.00	G 161.0	0.00
G 24.0	333.00	G 70.0	7.30	G 116.0	0.00	G 162.0	0.00
G 25.0	277.20	G 71.0	6.80	G 117.0	0.00	G 163.0	0.00
G 26.0	232.70	G 72.0	6.30	G 118.0	0.00	G 164.0	0.00
G 27.0	198.80	G 73.0	5.90	G 119.0	0.00	G 165.0	0.00
G 28.0	171.80	G 74.0	5.40	G 120.0	0.00	G 166.0	0.00
G 29.0	149.60	G 75.0	4.90	G 121.0	0.00	G 167.0	0.00
G 30.0	130.80	G 76.0	4.50	G 122.0	0.00	G 168.0	0.00
G 31.0	115.30	G 77.0	4.20	G 123.0	0.00	G 169.0	0.00
G 32.0	103.00	G 78.0	3.90	G 124.0	0.00	G 170.0	0.00
G 33.0	93.20	G 79.0	3.60	G 125.0	0.00	G 171.0	0.00
G 34.0	84.90	G 80.0	3.40	G 126.0	0.00	G 172.0	0.00
G 35.0	77.80	G 81.0	3.10	G 127.0	0.00	G 173.0	0.00
G 36.0	71.70	G 82.0	2.70	G 128.0	0.00	G 174.0	0.00
G 37.0	66.40	G 83.0	2.40	G 129.0	0.00	G 175.0	0.00
G 38.0	61.90	G 84.0	2.10	G 130.0	0.00	G 176.0	0.00
G 39.0	58.00	G 85.0	1.70	G 131.0	0.00	G 177.0	0.00
G 40.0	54.70	G 86.0	1.40	G 132.0	0.00	G 178.0	0.00
G 41.0	51.50	G 87.0	1.00	G 133.0	0.00	G 179.0	0.00
G 42.0	48.60	G 88.0	0.60	G 134.0	0.00	G 180.0	0.00
G 43.0	46.20	G 89.0	0.20	G 135.0	0.00		
G 44.0	43.80	G 90.0	0.00	G 136.0	0.00		
G 45.0	41.60	G 91.0	0.00	G 137.0	0.00		

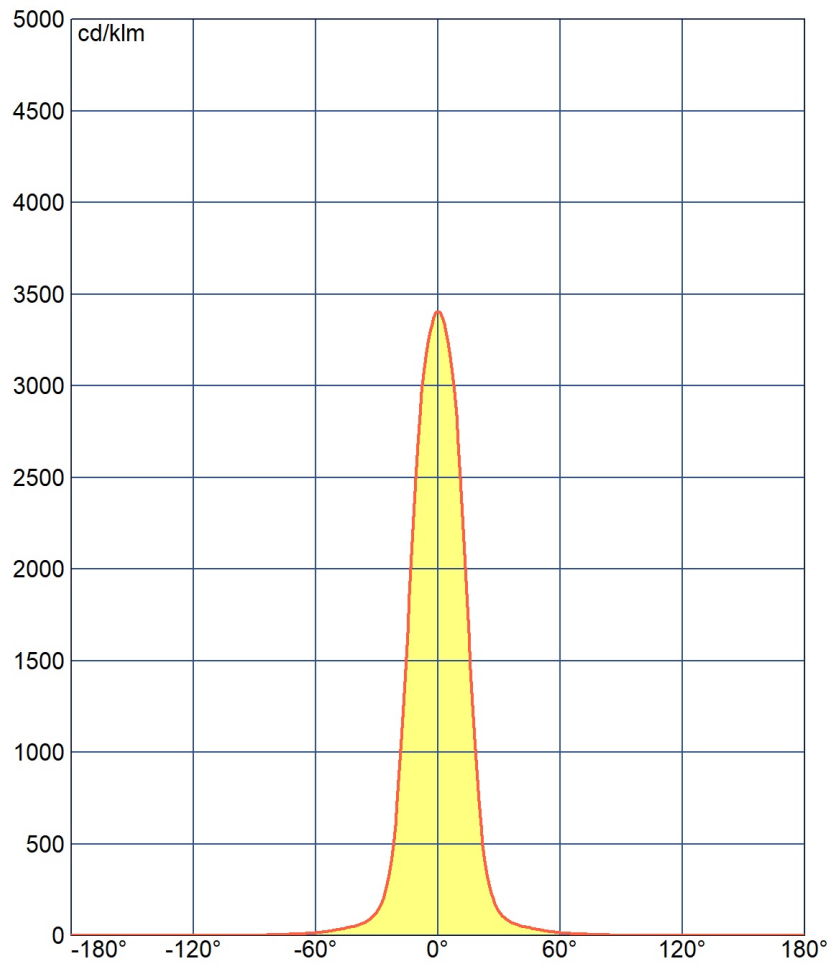
Diam=80mm



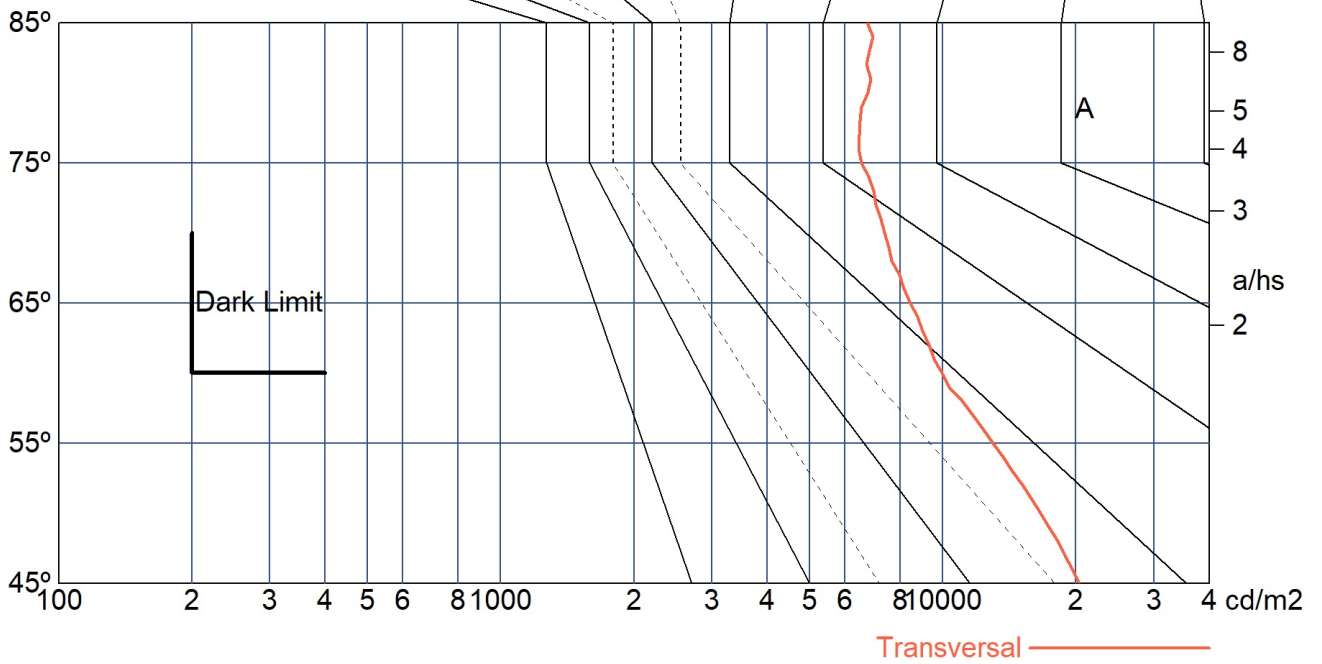
C Halfplanes

180.0 ——— 0.0

Flux 1740.00 lm  
Maximum 3405.60 cd/klm  
Position C=0.00 G=0.00  
Efficiency: 100.07%  
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	0.26	E(0°) E(C0)	14.7°	23703 10807
1.0	0.52	E(0°) E(C0)	14.7°	5926 2702
1.5	0.79	E(0°) E(C0)	14.7°	2634 1201
2.0	1.05	E(0°) E(C0)	14.7°	1481 675
2.5	1.31	E(0°) E(C0)	14.7°	948 432
3.0	1.57	E(0°) E(C0)	14.7°	658 300

Distance [m]

Cone Diameter [m]

Illuminance [lx]

— C0 - C180 (Half value angle: 29.4°)

## 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	15.2	16.0	15.5	16.1	16.3	15.2	16.0	15.5	16.1	16.3
	3H	15.8	16.4	16.1	16.7	16.9	15.8	16.4	16.1	16.7	16.9
	4H	16.0	16.6	16.3	16.9	17.1	16.0	16.6	16.3	16.9	17.1
	6H	16.2	16.8	16.6	17.1	17.4	16.2	16.8	16.6	17.1	17.4
	8H	16.3	16.9	16.7	17.2	17.5	16.3	16.9	16.7	17.2	17.5
	12H	16.4	16.9	16.8	17.2	17.5	16.4	16.9	16.8	17.2	17.5
4H	2H	15.5	16.1	15.8	16.3	16.6	15.5	16.1	15.8	16.3	16.6
	3H	16.2	16.7	16.5	17.0	17.3	16.2	16.7	16.5	17.0	17.3
	4H	16.5	17.0	16.9	17.3	17.6	16.5	17.0	16.9	17.3	17.6
	6H	16.9	17.2	17.3	17.6	18.0	16.9	17.2	17.3	17.6	18.0
	8H	17.0	17.3	17.4	17.7	18.1	17.0	17.3	17.4	17.7	18.1
	12H	17.1	17.4	17.6	17.8	18.2	17.1	17.4	17.6	17.8	18.2
8H	4H	16.6	17.0	17.1	17.4	17.8	16.6	17.0	17.1	17.4	17.8
	6H	17.1	17.3	17.5	17.8	18.2	17.1	17.3	17.5	17.8	18.2
	8H	17.3	17.5	17.8	18.0	18.4	17.3	17.5	17.8	18.0	18.4
	12H	17.5	17.7	18.0	18.2	18.6	17.5	17.7	18.0	18.2	18.6
12H	4H	16.6	16.9	17.1	17.3	17.7	16.6	16.9	17.1	17.3	17.7
	6H	17.1	17.3	17.6	17.8	18.2	17.1	17.3	17.6	17.8	18.2
	8H	17.4	17.6	17.9	18.0	18.5	17.4	17.6	17.9	18.0	18.5
Variation of the observer position for the luminaire distance S											
S = 1.0H	+0.6 / -0.7					+0.6 / -0.7					
S = 1.5H	+1.5 / -1.3					+1.5 / -1.3					
S = 2.0H	+2.7 / -1.8					+2.7 / -1.8					
Standard table	BK03					BK03					
Correction summand	-0.7					-0.7					
Corrected glare indices referring to 1740lm total luminous flux											