

filename : PP09913008-Globe.LDT  
 meas. number : 3042  
 luminaire number : PP09913008-Globe  
 date / operator : 24-10-2019



**default lamp type(s)**

no of lamps	lamp type	luminaire lumens	input wattage
1	LED MODULE	715 lm	13.2 W

**dimensions**

luminaire	luminous area
diameter : 500 mm	diameter : 498 mm
height : 140 mm	height : 0 mm

**coordinate system**

no of planes : 1	samples / plane : 37
first c-plane : 0.0 °	first gamma-angle : 0.0 °
step angle : 0.0 °	step angle : 5.0 °
last c-plane : 0.0 °	last gamma-angle : 180.0 °
symmetrics : rotational symmetry	

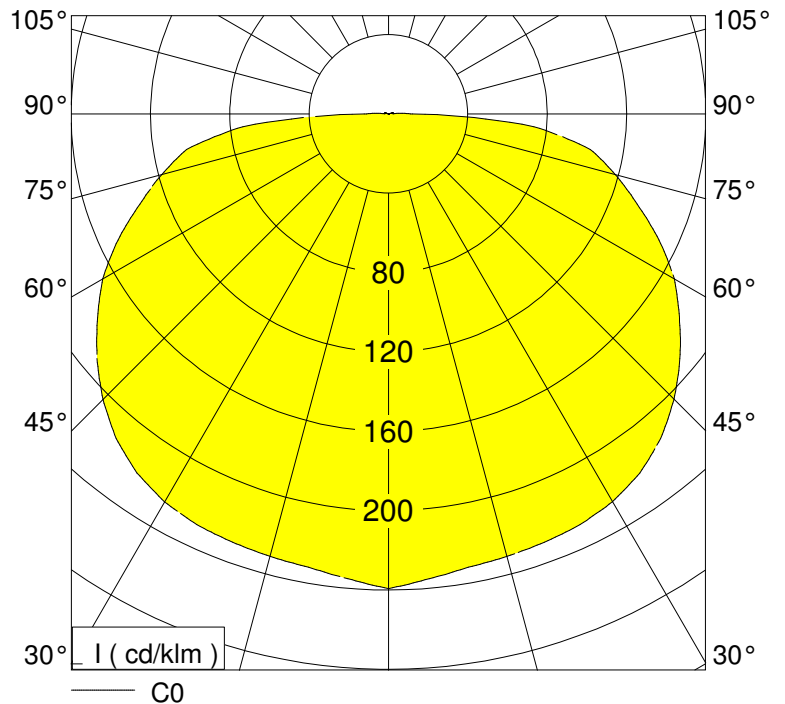
**performance**

light output ratio : 100.0 %
DFF : 99.3 %
UFF : 0.7 %

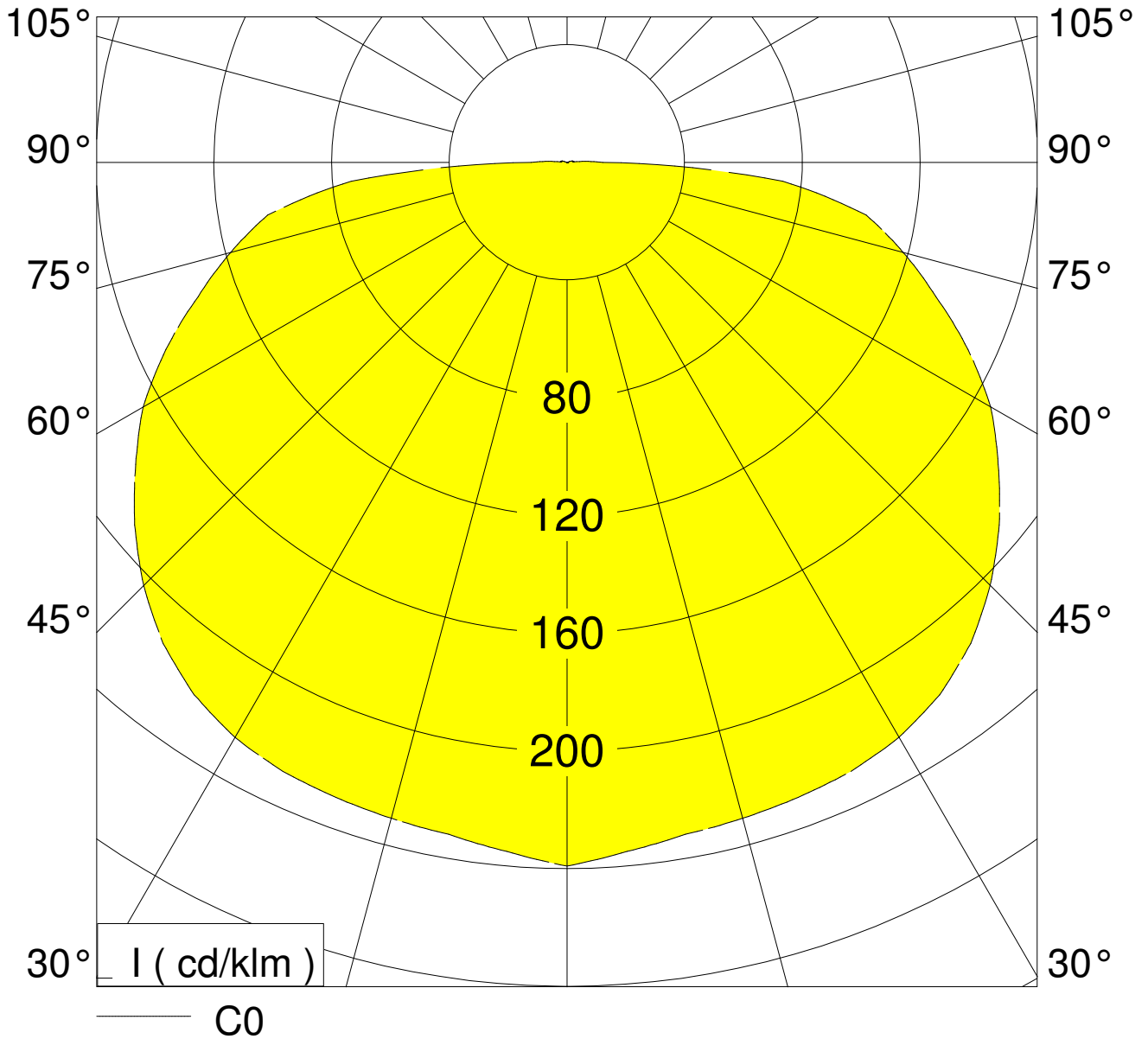
**classification**

LiTG / DIN : A30
UTE : 0.99G+0.01T 0.99H+0.01T
CIE : 35 65 87 99 100
BZ : 6 6 6 6 6 6 6 6

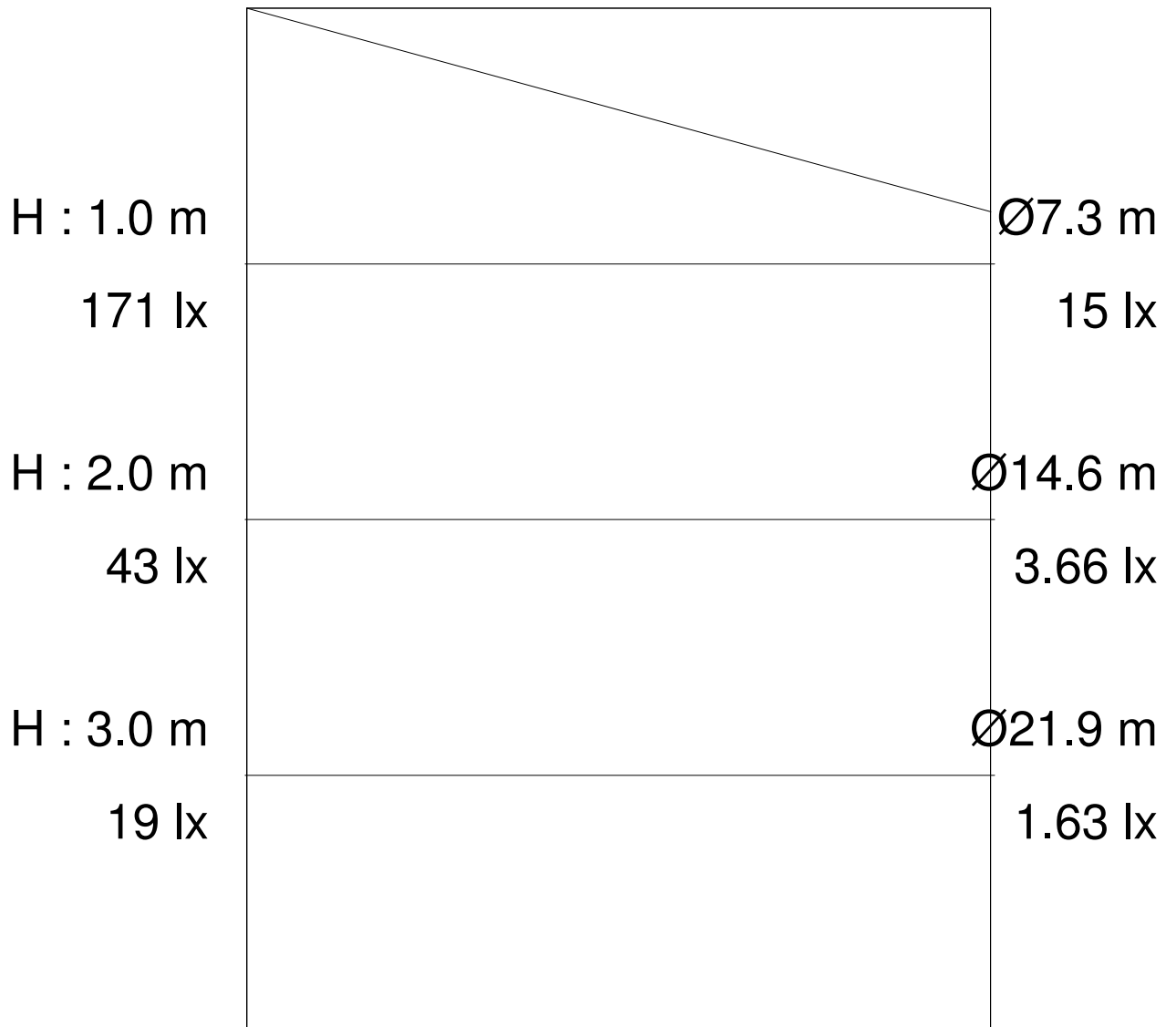
Ambient Temperature : 25 degC
Input Voltage : 240 V
Circuit Watts : 13.2W
Amps (running) : 0.056A
V.A. : 13.33VA
Power Factor : 0.99
CCT : 2780K (measured); 2700K (declared)
CRI (Ra) : 92
S/P Ratio : 1.3
Luminaire Lumens : 715LLm
Luminaire Lm/circ.Watt : 54.2 LLm/circ.Watt
Driver Details : Integral



Measurements made are in absolute units. The luminaire is treated as if it was a lamp as it is not possible to measure each LED separately - hence an LOR of 100%  
 The Light output ratio in real terms would be less than 100%. If it was possible to compare real LED lumens with the total output from the luminaire we could obtain an actual LOR  
 This also means that the total lumens emitted from the LED's would be greater than the Luminaire Lumens measured. In reality the LED lumens would approximate to this value divided by the actual Light Output.



beam angle : 2 x 74.7°



## C-Plane intensities averaged for symmetry

	C 0.0
0.0°	239.00
5.0°	234.90
10.0°	231.70
15.0°	230.60
20.0°	229.50
25.0°	228.20
30.0°	225.50
35.0°	220.70
40.0°	213.30
45.0°	203.30
50.0°	191.60
55.0°	178.80
60.0°	166.20
65.0°	150.30
70.0°	133.30
75.0°	118.30
80.0°	103.20
85.0°	73.60
90.0°	12.20
95.0°	2.30
100.0°	2.00
105.0°	1.80
110.0°	0.00
115.0°	0.00
120.0°	0.00
125.0°	0.00
130.0°	0.00
135.0°	0.00
140.0°	0.00
145.0°	0.00
150.0°	0.00
155.0°	0.00
160.0°	0.00
165.0°	0.00
170.0°	0.00
175.0°	0.00
180.0°	0.00
	cd / klm

<b>glare rating according to UGR</b>											
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-workplane	20	20	20	20	20	20	20	20	20	20	
room dimensions X            Y	viewed crosswise					viewed endwise					
2H	2H	13.5	15.2	13.8	15.4	15.6	13.5	15.2	13.8	15.4	15.6
	3H	15.1	16.3	15.4	16.5	16.7	15.1	16.3	15.4	16.5	16.7
	4H	16.4	17.6	16.7	17.8	18.0	16.4	17.6	16.7	17.8	18.0
	6H	17.8	18.9	18.0	19.1	19.3	17.8	18.9	18.0	19.1	19.3
	8H	18.5	19.6	18.8	19.8	20.0	18.5	19.6	18.8	19.8	20.0
	12H	19.2	20.3	19.5	20.5	20.7	19.2	20.3	19.5	20.5	20.7
4H	2H	13.6	14.8	13.9	15.0	15.2	13.6	14.8	13.9	15.0	15.2
	3H	16.3	17.4	16.6	17.6	17.9	16.3	17.4	16.6	17.6	17.9
	4H	17.8	18.9	18.2	19.2	19.4	17.8	18.9	18.2	19.2	19.4
	6H	19.2	20.1	19.5	20.3	20.6	19.2	20.1	19.5	20.3	20.6
	8H	20.0	20.8	20.3	21.1	21.4	20.0	20.8	20.3	21.1	21.4
	12H	20.8	21.6	21.2	21.9	22.3	20.8	21.6	21.2	21.9	22.3
8H	4H	18.3	19.1	18.6	19.4	19.7	18.3	19.1	18.6	19.4	19.7
	6H	20.3	21.0	20.7	21.4	21.7	20.3	21.0	20.7	21.4	21.7
	8H	21.3	22.0	21.7	22.4	22.7	21.3	22.0	21.7	22.4	22.7
	12H	22.1	22.7	22.5	23.1	23.5	22.1	22.7	22.5	23.1	23.5
12H	4H	18.5	19.3	18.9	19.6	20.0	18.5	19.3	18.9	19.6	20.0
	6H	20.6	21.3	21.0	21.7	22.1	20.6	21.3	21.0	21.7	22.1
	8H	21.5	22.1	21.9	22.5	22.9	21.5	22.1	21.9	22.5	22.9
variation of observer position											
S =	1.0H	+0.1/		-0.1		+0.1/		-0.1			
	1.5H	+0.2/		-0.2		+0.2/		-0.2			
	2.0H	+0.2/		-0.3		+0.2/		-0.3			
standard-table	BK11					BK11					
correction for luminaire	5.6					5.6					
correct glare indices for a total flux of 715lm											

class		glare rating for service value of illuminance (lx)								
A	A	1000	750	500	--	≤ 300				
1	B	2000	1500	1000	750	500	≤ 300			
2	D					2000	1000	500	≤ 300	
3	E						2000	1000	500	≤ 300

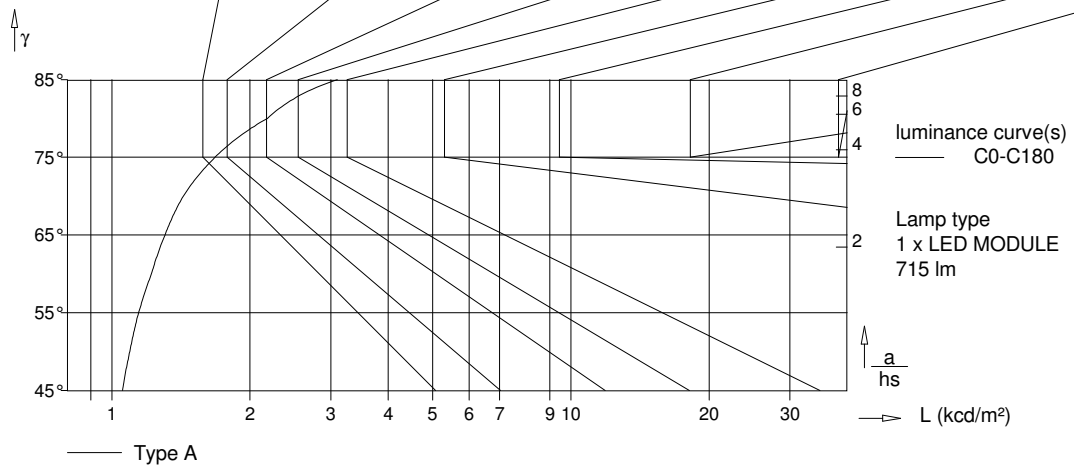


Table of Luminance

gamma	C 0	C 90	C 180	C 270
45°	1055.4	1055.4	1055.4	1055.4
50°	1094.2	1094.2	1094.2	1094.2
55°	1144.3	1144.3	1144.3	1144.3
60°	1220.2	1220.2	1220.2	1220.2
65°	1305.5	1305.5	1305.5	1305.5
70°	1430.7	1430.7	1430.7	1430.7
75°	1677.8	1677.8	1677.8	1677.8
80°	2181.6	2181.6	2181.6	2181.6
85°	3099.8	3099.8	3099.8	3099.8

all values in cd/m<sup>2</sup>

<b>utilization factors / TM5</b>											
reflection			room index								
C	W	F	0.75	1.0	1.25	1.5	2.0	2.5	3.0	4.0	5.0
70	50	20	51	59	67	72	80	85	89	94	98
70	30	20	42	50	58	64	72	78	83	89	93
70	10	20	36	44	51	57	66	72	77	84	89
50	50	20	49	57	64	69	76	81	85	90	94
50	30	20	41	49	56	62	70	76	80	86	90
50	10	20	36	43	51	56	64	70	75	82	86
30	50	20	48	55	62	66	73	78	81	86	89
30	30	20	41	48	55	60	68	73	77	82	86
30	10	20	35	42	50	55	63	69	73	79	83
0	0	0	33	40	47	52	59	65	69	74	78
BZ-class			6	6	6	6	6	6	6	6	6
SHRnom : 1.50						SHRmax : 1.669					

