

filename : Cloister LedLite CC.LDT  
 meas. number : 10964-1226  
 luminaire number : Cloister LedLite CC  
 date / operator : 2014 09 08 10:24:17

**default lamp type(s)**

no of lamps	lamp type	luminaire lumens	input wattage
1	LED	2606 lm	26 W

**dimensions**

luminaire		luminous area	
diameter	: 435 mm	diameter	: 395 mm
height	: 90 mm	height	: 45 mm

**coordinate system**

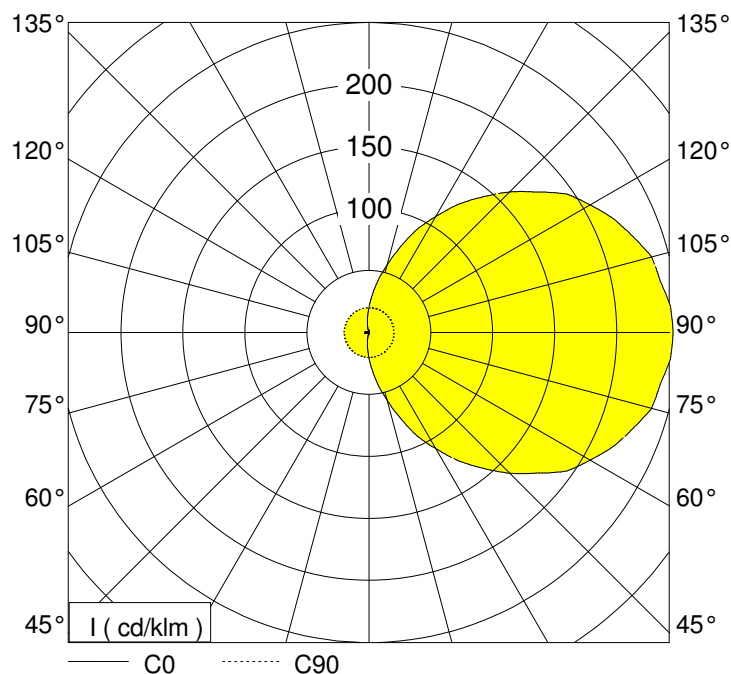
no of planes	: 24	samples / plane	: 37
first c-plane	: 0.0 °	first gamma-angle	: 0.0 °
step angle	: 15.0 °	step angle	: 5.0 °
last c-plane	: 345.0 °	last gamma-angle	: 180.0 °
symmetrics	: asymmetric		

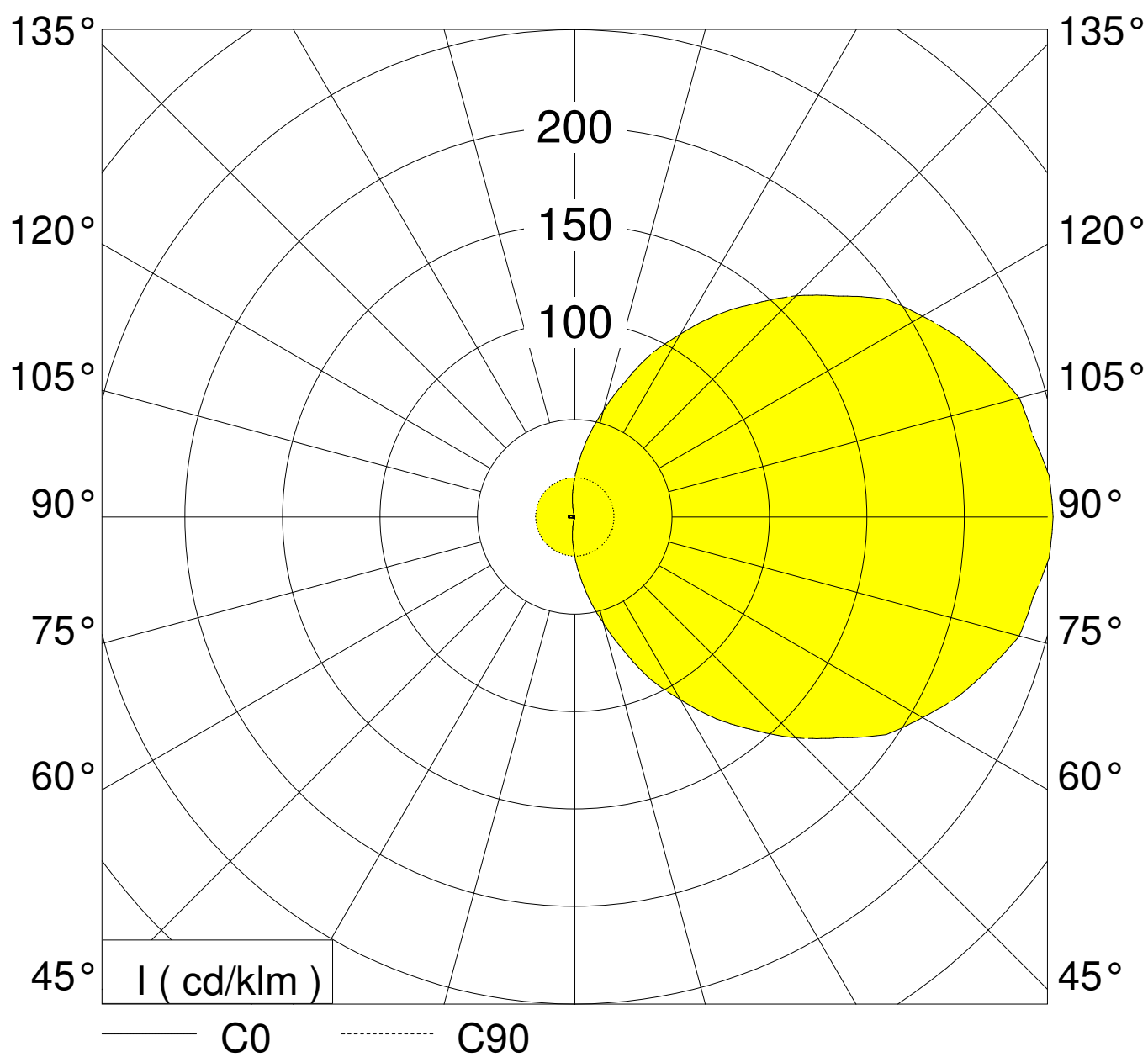
**performance**

light output ratio	: 75.1 %
DFF	: 50.0 %
UFF	: 50.0 %

**classification**

LiTG / DIN	: C11
UTE	: 0.38J+0.38T
CIE	: 15 39 68 50 75
BZ	: 10 10 10 10 10 10 10 10 10





	C 0.0	C 15.0	C 30.0	C 45.0	C 60.0	C 75.0	C 90.0	C 105.0
0.0°	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10
5.0°	30.10	29.70	28.60	26.90	24.60	22.40	20.10	18.10
10.0°	42.60	41.70	39.30	35.30	30.10	24.80	20.10	16.20
15.0°	56.10	54.70	50.70	44.10	36.50	27.60	20.10	14.20
20.0°	72.50	70.00	62.80	53.50	42.20	30.30	20.10	12.60
25.0°	91.90	88.20	77.90	63.30	48.70	33.40	20.10	10.90
30.0°	108.10	104.40	94.00	75.10	54.70	36.50	20.10	9.30
35.0°	126.40	121.60	107.40	87.50	61.10	39.00	20.10	8.20
40.0°	142.70	137.60	122.20	98.30	68.00	41.50	20.10	7.00
45.0°	160.40	154.80	135.60	108.10	75.10	44.10	20.10	6.10
50.0°	176.30	169.10	149.20	118.60	81.70	46.50	20.10	5.30
55.0°	194.80	185.90	161.00	127.70	88.50	48.80	20.10	4.60
60.0°	205.90	198.60	171.80	135.60	94.00	50.70	20.10	4.10
65.0°	217.40	208.20	183.50	142.20	98.00	52.30	20.10	3.70
70.0°	226.50	217.70	193.10	149.60	101.50	53.70	20.10	3.40
75.0°	236.00	224.20	198.60	154.80	104.40	54.70	20.10	3.10
80.0°	238.60	229.90	202.50	157.90	106.50	55.50	20.10	2.90
85.0°	244.10	234.30	205.10	159.70	107.70	56.10	20.10	2.80
90.0°	245.30	236.00	205.90	160.40	108.10	56.10	20.10	2.80
95.0°	244.10	234.30	205.10	159.70	107.70	56.10	20.10	2.80
100.0°	238.60	229.90	202.50	157.90	106.50	55.50	20.10	2.90
105.0°	236.00	224.20	198.60	154.80	104.40	54.70	20.10	3.10
110.0°	226.50	217.70	193.10	149.60	101.50	53.70	20.10	3.40
115.0°	217.40	208.20	183.50	142.20	98.00	52.30	20.10	3.70
120.0°	205.90	198.60	171.80	135.60	94.00	50.70	20.10	4.10
125.0°	194.80	185.90	161.00	127.70	88.50	48.80	20.10	4.60
130.0°	176.30	169.10	149.20	118.60	81.70	46.50	20.10	5.30
135.0°	160.40	154.80	135.60	108.10	75.10	44.10	20.10	6.10
140.0°	142.70	137.60	122.20	98.30	68.00	41.50	20.10	7.00
145.0°	126.40	121.60	107.40	87.50	61.10	39.00	20.10	8.20
150.0°	108.10	104.40	94.00	75.10	54.70	36.50	20.10	9.30
155.0°	91.90	88.20	77.90	63.30	48.70	33.40	20.10	10.90
160.0°	72.50	70.00	62.80	53.50	42.20	30.30	20.10	12.60
165.0°	56.10	54.70	50.70	44.10	36.50	27.60	20.10	14.20
170.0°	42.60	41.70	39.30	35.30	30.10	24.80	20.10	16.20
175.0°	30.10	29.70	28.60	26.90	24.60	22.40	20.10	18.10
180.0°	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
	cd / klm							

	C 120.0	C 135.0	C 150.0	C 165.0	C 180.0	C 195.0	C 210.0	C 225.0
0.0°	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10
5.0°	16.20	14.70	13.50	12.80	12.60	12.80	13.50	14.70
10.0°	12.60	9.90	8.00	7.00	6.60	7.00	8.00	9.90
15.0°	9.30	6.10	4.10	3.10	2.80	3.10	4.10	6.10
20.0°	6.70	3.40	1.80	1.20	1.00	1.20	1.80	3.40
25.0°	4.70	1.70	0.90	0.90	0.90	0.90	0.90	1.70
30.0°	3.10	1.00	0.90	0.90	0.80	0.90	0.90	1.00
35.0°	2.10	0.90	0.80	0.80	0.80	0.80	0.80	0.90
40.0°	1.30	0.90	0.80	0.80	0.80	0.80	0.80	0.90
45.0°	1.00	0.80	0.80	0.80	0.80	0.80	0.80	0.80
50.0°	0.90	0.80	0.80	0.80	0.80	0.80	0.80	0.80
55.0°	0.90	0.80	0.80	0.70	0.70	0.70	0.80	0.80
60.0°	0.90	0.80	0.80	0.70	0.80	0.70	0.80	0.80
65.0°	0.90	0.80	0.70	0.80	0.90	0.80	0.70	0.80
70.0°	0.90	0.80	0.70	0.90	1.20	0.90	0.70	0.80
75.0°	0.90	0.80	0.70	1.10	2.00	1.10	0.70	0.80
80.0°	0.90	0.80	0.80	1.40	3.10	1.40	0.80	0.80
85.0°	0.80	0.80	0.80	1.80	3.40	1.80	0.80	0.80
90.0°	0.80	0.80	0.80	2.00	3.10	2.00	0.80	0.80
95.0°	0.80	0.80	0.80	1.80	3.40	1.80	0.80	0.80
100.0°	0.90	0.80	0.80	1.40	3.10	1.40	0.80	0.80
105.0°	0.90	0.80	0.70	1.10	2.00	1.10	0.70	0.80
110.0°	0.90	0.80	0.70	0.90	1.20	0.90	0.70	0.80
115.0°	0.90	0.80	0.70	0.80	0.90	0.80	0.70	0.80
120.0°	0.90	0.80	0.80	0.70	0.80	0.70	0.80	0.80
125.0°	0.90	0.80	0.80	0.70	0.70	0.70	0.80	0.80
130.0°	0.90	0.80	0.80	0.80	0.80	0.80	0.80	0.80
135.0°	1.00	0.80	0.80	0.80	0.80	0.80	0.80	0.80
140.0°	1.30	0.90	0.80	0.80	0.80	0.80	0.80	0.90
145.0°	2.10	0.90	0.80	0.80	0.80	0.80	0.80	0.90
150.0°	3.10	1.00	0.90	0.90	0.80	0.90	0.90	1.00
155.0°	4.70	1.70	0.90	0.90	0.90	0.90	0.90	1.70
160.0°	6.70	3.40	1.80	1.20	1.00	1.20	1.80	3.40
165.0°	9.30	6.10	4.10	3.10	2.80	3.10	4.10	6.10
170.0°	12.60	9.90	8.00	7.00	6.60	7.00	8.00	9.90
175.0°	16.20	14.70	13.50	12.80	12.60	12.80	13.50	14.70
180.0°	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
	cd / klm							

	C 240.0	C 255.0	C 270.0	C 285.0	C 300.0	C 315.0	C 330.0	C 345.0
0.0°	20.10	20.10	20.10	20.10	20.10	20.10	20.10	20.10
5.0°	16.20	18.10	20.10	22.40	24.60	26.90	28.60	29.70
10.0°	12.60	16.20	20.10	24.80	30.10	35.30	39.30	41.70
15.0°	9.30	14.20	20.10	27.60	36.50	44.10	50.70	54.70
20.0°	6.70	12.60	20.10	30.30	42.20	53.50	62.80	70.00
25.0°	4.70	10.90	20.10	33.40	48.70	63.30	77.90	88.20
30.0°	3.10	9.30	20.10	36.50	54.70	75.10	94.00	104.40
35.0°	2.10	8.20	20.10	39.00	61.10	87.50	107.40	121.60
40.0°	1.30	7.00	20.10	41.50	68.00	98.30	122.20	137.60
45.0°	1.00	6.10	20.10	44.10	75.10	108.10	135.60	154.80
50.0°	0.90	5.30	20.10	46.50	81.70	118.60	149.20	169.10
55.0°	0.90	4.60	20.10	48.80	88.50	127.70	161.00	185.90
60.0°	0.90	4.10	20.10	50.70	94.00	135.60	171.80	198.60
65.0°	0.90	3.70	20.10	52.30	98.00	142.20	183.50	208.20
70.0°	0.90	3.40	20.10	53.70	101.50	149.60	193.10	217.70
75.0°	0.90	3.10	20.10	54.70	104.40	154.80	198.60	224.20
80.0°	0.90	2.90	20.10	55.50	106.50	157.90	202.50	229.90
85.0°	0.80	2.80	20.10	56.10	107.70	159.70	205.10	234.30
90.0°	0.80	2.80	20.10	56.10	108.10	160.40	205.90	236.00
95.0°	0.80	2.80	20.10	56.10	107.70	159.70	205.10	234.30
100.0°	0.90	2.90	20.10	55.50	106.50	157.90	202.50	229.90
105.0°	0.90	3.10	20.10	54.70	104.40	154.80	198.60	224.20
110.0°	0.90	3.40	20.10	53.70	101.50	149.60	193.10	217.70
115.0°	0.90	3.70	20.10	52.30	98.00	142.20	183.50	208.20
120.0°	0.90	4.10	20.10	50.70	94.00	135.60	171.80	198.60
125.0°	0.90	4.60	20.10	48.80	88.50	127.70	161.00	185.90
130.0°	0.90	5.30	20.10	46.50	81.70	118.60	149.20	169.10
135.0°	1.00	6.10	20.10	44.10	75.10	108.10	135.60	154.80
140.0°	1.30	7.00	20.10	41.50	68.00	98.30	122.20	137.60
145.0°	2.10	8.20	20.10	39.00	61.10	87.50	107.40	121.60
150.0°	3.10	9.30	20.10	36.50	54.70	75.10	94.00	104.40
155.0°	4.70	10.90	20.10	33.40	48.70	63.30	77.90	88.20
160.0°	6.70	12.60	20.10	30.30	42.20	53.50	62.80	70.00
165.0°	9.30	14.20	20.10	27.60	36.50	44.10	50.70	54.70
170.0°	12.60	16.20	20.10	24.80	30.10	35.30	39.30	41.70
175.0°	16.20	18.10	20.10	22.40	24.60	26.90	28.60	29.70
180.0°	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
	cd / klm							

glare rating 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-workplane		20	20	20	20	20	20	20	20	20	20
room dimensions X                      Y		viewed crosswise					viewed endwise				
2H	2H	19.4	20.5	20.3	21.4	22.6	9.9	11.0	10.8	11.9	13.1
	3H	23.8	25.1	25.0	26.5	28.5	12.5	13.8	13.6	15.1	17.1
	4H	25.8	27.1	27.0	28.4	30.6	13.4	14.7	14.6	16.0	18.2
	6H	27.8	29.0	29.0	30.4	32.7	14.4	15.6	15.6	17.0	19.3
	8H	28.9	30.0	30.1	31.5	33.8	14.9	16.1	16.2	17.6	19.9
	12H	29.9	31.1	31.2	32.6	35.0	15.5	16.7	16.8	18.1	20.6
4H	2H	20.6	21.9	21.8	23.3	25.4	14.2	15.5	15.4	16.8	19.0
	3H	24.8	25.9	26.0	27.4	29.8	16.4	17.6	17.7	19.1	21.5
	4H	27.0	28.2	28.4	29.7	32.3	17.6	18.7	18.9	20.2	22.9
	6H	29.1	30.0	30.4	31.5	34.0	18.3	19.3	19.6	20.8	23.2
	8H	30.2	31.1	31.6	32.7	35.3	18.7	19.6	20.1	21.2	23.8
	12H	31.5	32.4	33.0	34.0	37.1	19.2	20.1	20.7	21.8	24.8
8H	4H	27.2	28.1	28.6	29.6	32.3	20.0	20.9	21.3	22.4	25.0
	6H	29.9	30.8	31.5	32.5	35.7	21.5	22.3	23.0	24.1	27.3
	8H	31.4	32.2	33.0	34.0	37.5	22.2	23.0	23.8	24.8	28.3
	12H	32.7	33.4	34.3	35.2	38.5	22.6	23.3	24.2	25.0	28.4
12H	4H	27.3	28.2	28.8	29.8	32.9	20.8	21.7	22.3	23.4	26.4
	6H	30.1	30.9	31.7	32.7	36.3	22.7	23.5	24.3	25.3	28.8
	8H	31.5	32.2	33.1	33.9	37.3	23.3	24.0	24.9	25.8	29.1
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	+0.3/		-0.3		+0.5/		-0.5			
standard-table		----					----				
correction for luminaire		----					----				
correct glare indices for a total flux of 2606lm											

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

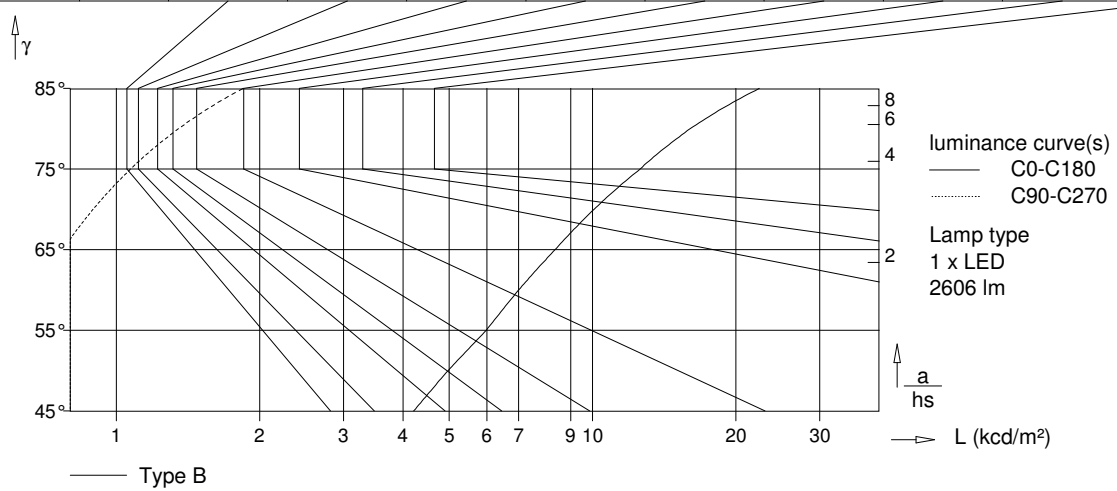


Table of intensities

gamma	C 0	C 90	C 180	C 270
45°	4212.9	527.9	21.0	527.9
50°	4973.1	567.0	22.6	567.0
55°	5983.1	617.4	21.5	617.4
60°	6999.0	683.2	27.2	683.2
65°	8344.1	771.5	34.5	771.5
70°	10070.1	893.6	53.4	893.6
75°	12580.8	1071.5	106.6	1071.5
80°	16032.1	1350.6	208.3	1350.6
85°	22408.6	1845.2	312.1	1845.2

all values in  $\text{cd/m}^2$

<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	26	32	36	40	45	49	52	56	59
70	30	20	20	25	30	34	39	44	47	52	55
70	10	20	15	20	25	29	35	39	42	48	51
50	50	20	21	26	30	33	37	40	43	46	49
50	30	20	16	21	24	28	33	36	39	43	46
50	10	20	12	17	20	24	29	32	35	40	43
30	50	20	17	20	23	26	30	32	34	37	39
30	30	20	13	16	19	22	26	29	31	35	37
30	10	20	10	13	16	19	23	26	29	32	35
0	0	0	5	7	9	11	14	16	18	21	23
BZ-class			10	10	10	10	10	10	10	10	10
SHRnom : 0.50						SHRmax : 0.449					



