

filename : MT50-LED-T2-CL-HE.LDT  
 meas. number : 2711  
 luminaire number : MT50 LED T2 CL HE  
 date / operator : 03-10-2018

**default lamp type(s)**

no of lamps	lamp type	luminaire lumens	input wattage
1	LED MODULE	1250 lm	10.6 W

**dimensions**

luminaire		luminous area	
length	: 645 mm	length	: 585 mm
width	: 50 mm	width	: 50 mm
height	: 50 mm	height	: 25 mm

**coordinate system**

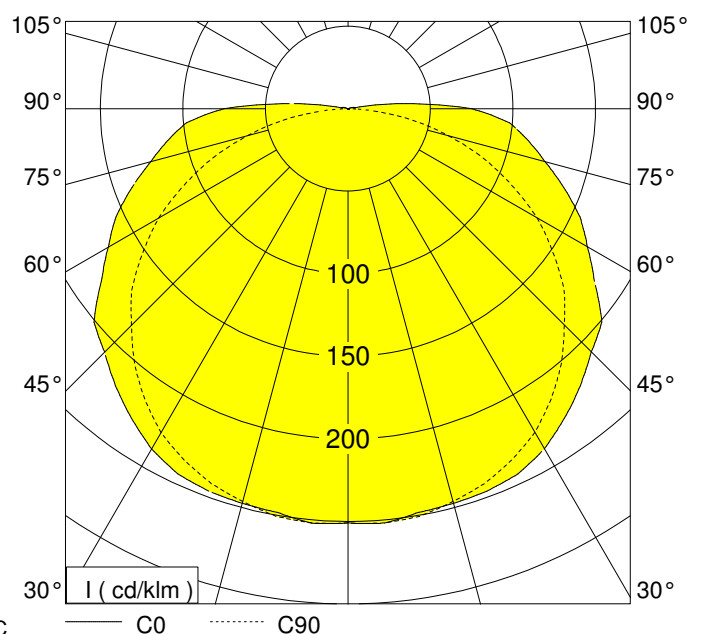
no of planes	: 7	samples / plane	: 37
first c-plane	: 0.0 °	first gamma-angle	: 0.0 °
step angle	: 15.0 °	step angle	: 5.0 °
last c-plane	: 90.0 °	last gamma-angle	: 180.0 °
symmetrics : symmetry to C0 / C90			

**performance**

light output ratio : 100.0 %  
 DFF : 97.4 %  
 UFF : 2.6 %

**classification**

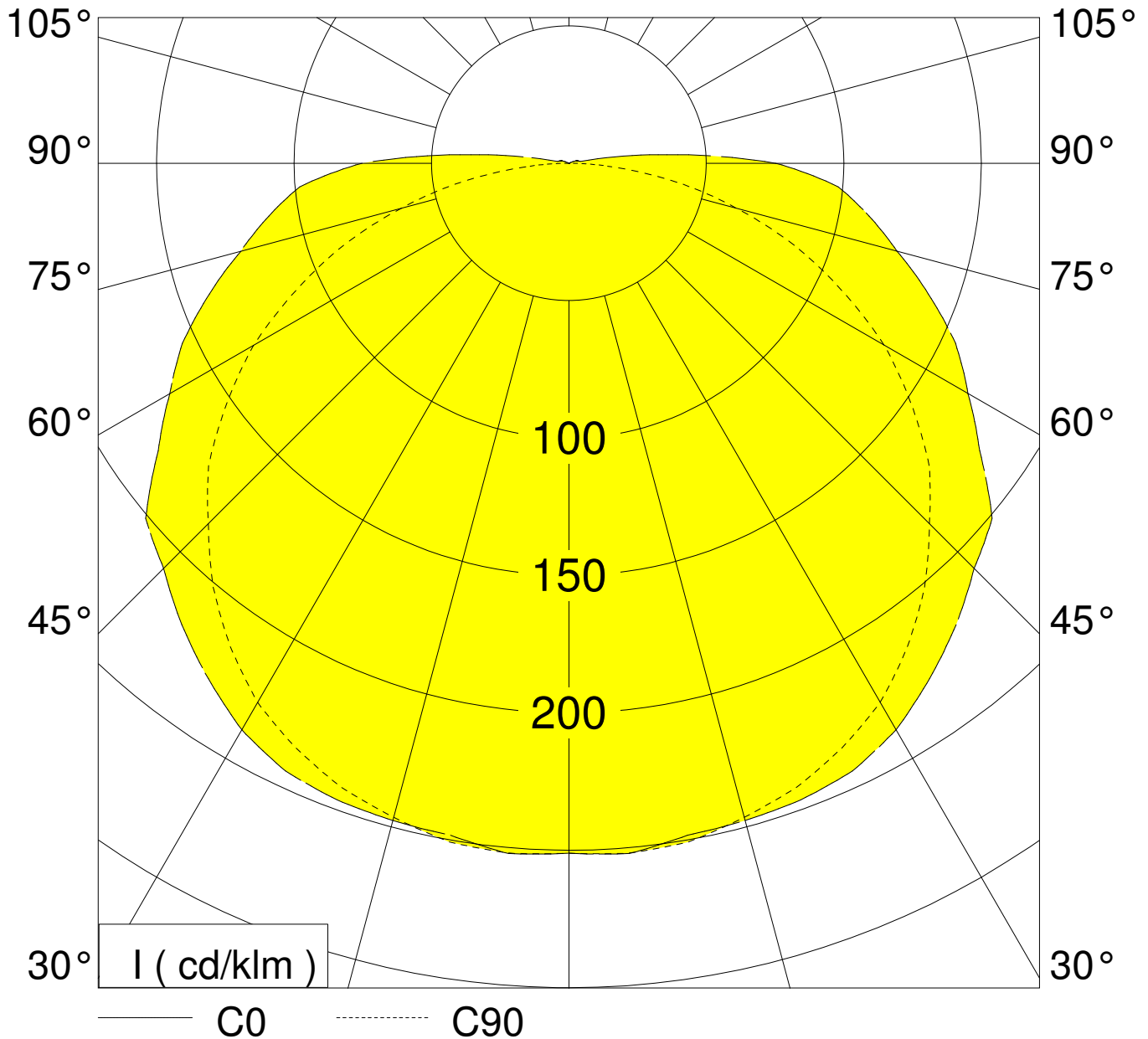
LiTG / DIN : A31  
 UTE : 0.97G+0.03T 0.97H+0.03T  
 CIE : 37 67 87 97 100  
 BZ : 1 5 5 6 6 6 6 6 6  
 Ambient Temperature : 25 degC  
 Input Voltage : 240 V  
 Circuit Watts : 10.6 W  
 Amps (running) : 0.057A  
 V.A. : 13.59VA  
 Power Factor : 0.78  
 CCT : 4263K (measured); 4250K (declared)  
 CRI (Ra) : 91  
 S/P Ratio : 1.8  
 Luminaire Lumens : 1250 LLm  
 Output Current DC : 170mA  
 Output Voltage DC : 45.4V  
 Output Power : 7.72W  
 Luminaire Lm/circ.Watt : 118 LLm/circ.Watt  
 Driver Efficiency : 73%  
 Driver Details : TRIDONIC LC25 100-500mA FLE C1p EXC 28000679



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.



	C 0.0	C 15.0	C 30.0	C 45.0	C 60.0	C 75.0	C 90.0
0.0°	250.90	250.90	250.90	250.90	250.90	250.90	250.90
5.0°	252.00	252.30	252.50	252.30	252.00	251.90	251.80
10.0°	248.10	248.50	249.00	250.40	251.80	251.20	250.60
15.0°	247.40	247.10	246.90	246.50	246.20	246.20	246.20
20.0°	246.40	245.80	245.30	242.60	239.80	240.70	241.60
25.0°	243.90	241.70	239.50	237.10	234.70	234.70	234.70
30.0°	237.90	236.50	235.10	231.10	227.10	226.70	226.40
35.0°	228.70	227.90	227.00	223.90	220.90	217.80	214.60
40.0°	219.00	218.30	217.60	212.10	206.80	204.00	201.20
45.0°	208.40	207.00	205.60	200.40	195.00	190.20	185.40
50.0°	200.90	197.50	194.00	186.60	179.10	175.10	171.00
55.0°	182.30	183.80	185.30	175.30	165.30	158.50	151.70
60.0°	167.60	165.70	163.80	155.30	146.80	139.60	132.40
65.0°	155.10	152.80	150.60	139.30	127.90	118.70	109.50
70.0°	139.10	137.80	136.50	124.80	113.20	100.20	87.20
75.0°	123.50	122.00	120.60	106.70	92.90	77.90	62.90
80.0°	110.80	110.00	109.30	94.80	80.50	60.10	39.90
85.0°	98.30	96.80	95.40	82.20	69.20	42.40	15.70
90.0°	75.20	73.40	71.60	61.70	51.90	26.00	0.00
95.0°	35.80	29.60	23.60	14.10	4.70	2.30	0.00
100.0°	4.20	4.20	4.20	3.70	3.30	1.60	0.00
105.0°	3.30	3.30	3.30	1.60	0.00	0.00	0.00
110.0°	2.80	1.40	0.00	0.00	0.00	0.00	0.00
115.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	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	20.1	21.8	20.5	22.0	22.3	20.2	21.8	20.5	22.0	22.3
	3H	21.7	23.0	22.0	23.2	23.5	21.5	22.8	21.8	23.0	23.3
	4H	22.7	24.0	23.0	24.2	24.5	22.3	23.5	22.6	23.8	24.0
	6H	23.7	24.9	24.0	25.2	25.5	22.8	24.0	23.2	24.3	24.6
	8H	24.2	25.4	24.5	25.7	26.0	23.1	24.3	23.4	24.6	24.9
	12H	24.7	25.9	25.0	26.2	26.5	23.2	24.4	23.6	24.7	25.1
4H	2H	20.5	21.7	20.8	22.0	22.3	20.5	21.7	20.8	22.0	22.3
	3H	22.8	24.0	23.2	24.3	24.6	22.6	23.8	22.9	24.1	24.4
	4H	24.1	25.2	24.5	25.6	25.9	23.6	24.7	24.0	25.1	25.5
	6H	25.0	26.0	25.4	26.3	26.7	24.1	25.1	24.5	25.5	25.9
	8H	25.6	26.5	26.0	26.9	27.3	24.5	25.4	24.9	25.8	26.2
	12H	26.3	27.2	26.8	27.6	28.1	24.8	25.7	25.3	26.1	26.6
8H	4H	24.3	25.2	24.7	25.6	26.0	23.9	24.8	24.3	25.2	25.6
	6H	26.0	26.8	26.5	27.3	27.8	25.2	26.1	25.7	26.5	27.0
	8H	26.8	27.6	27.3	28.1	28.7	25.7	26.6	26.3	27.1	27.6
	12H	27.4	28.1	27.9	28.6	29.2	26.0	26.7	26.5	27.2	27.8
12H	4H	24.5	25.4	25.0	25.9	26.3	24.2	25.1	24.6	25.5	26.0
	6H	26.2	27.1	26.7	27.6	28.1	25.5	26.3	26.0	26.8	27.4
	8H	26.9	27.6	27.5	28.1	28.7	25.9	26.7	26.5	27.2	27.7
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/                      -0.4					
standard-table		BK09					BK07				
correction for luminaire		10.2					8.4				
correct glare indices for a total flux of 1250lm											

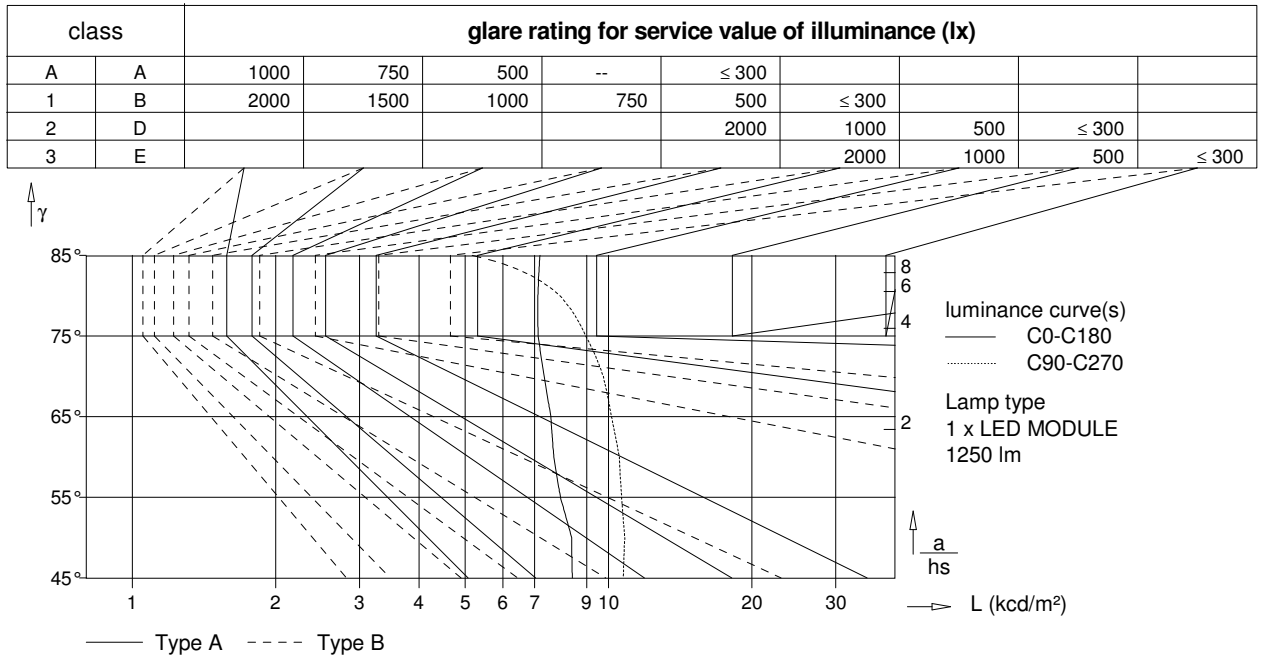


Table of intensities

gamma	C 0	C 90	C 180	C 270
45°	8396.6	10745.7	8396.6	10745.7
50°	8369.5	10817.8	8369.5	10817.8
55°	7924.1	10652.5	7924.1	10652.5
60°	7676.6	10536.3	7676.6	10536.3
65°	7568.4	10143.0	7568.4	10143.0
70°	7321.9	9750.7	7321.9	9750.7
75°	7115.0	8957.2	7115.0	8957.2
80°	7109.1	7903.8	7109.1	7903.8
85°	7177.8	5171.9	7177.8	5171.9

all values in cd/m²

<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	N/A	62	69	74	81	86	90	95	98
70	30	20	N/A	54	61	66	74	80	84	90	93
70	10	20	N/A	48	54	60	68	74	78	85	89
50	50	20	N/A	60	66	71	78	82	86	90	93
50	30	20	N/A	52	59	64	72	77	80	86	89
50	10	20	N/A	47	53	59	66	72	76	82	86
30	50	20	N/A	57	63	68	74	78	82	86	89
30	30	20	N/A	51	57	62	69	74	77	82	86
30	10	20	N/A	46	52	57	65	70	74	79	83
0	0	0	N/A	43	49	54	61	65	69	74	77
BZ-class			1	5	5	6	6	6	6	6	6
SHRnom : 1.75						SHRmax : 1.763					

