

filename : MT50-LED-T4-CL-HE.LDT  
 meas. number : 2712  
 luminaire number : MT50 LED T4 CL HE  
 date / operator : 03-10-2018

**default lamp type(s)**

no of lamps	lamp type	luminaire lumens	input wattage
1	LED MODULE	2600 lm	19.1 W

**dimensions**

luminaire		luminous area	
length	: 1225 mm	length	: 1165 mm
width	: 50 mm	width	: 50 mm
height	: 50 mm	height	: 25 mm

**coordinate system**

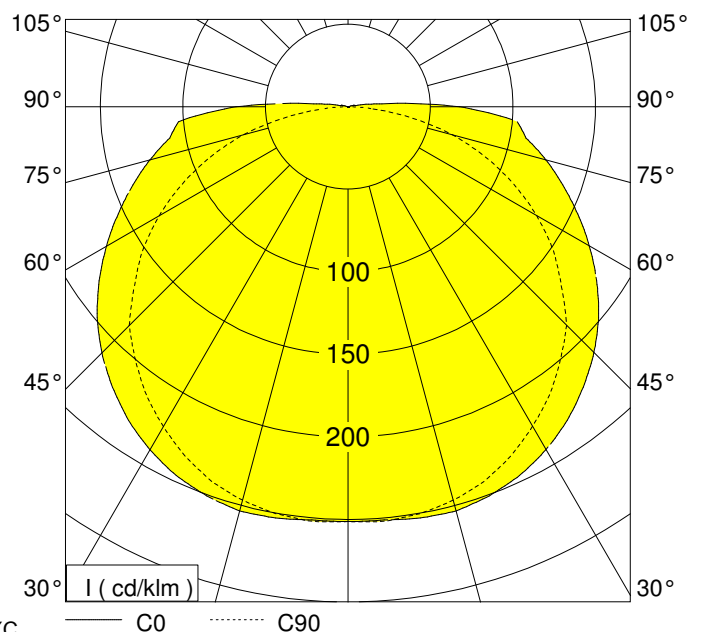
no of planes	: 7	samples / plane	: 37
first c-plane	: 0.0 °	first gamma-angle	: 0.0 °
step angle	: 15.0 °	step angle	: 5.0 °
last c-plane	: 90.0 °	last gamma-angle	: 180.0 °
symmetrics : symmetry to C0 / C90			

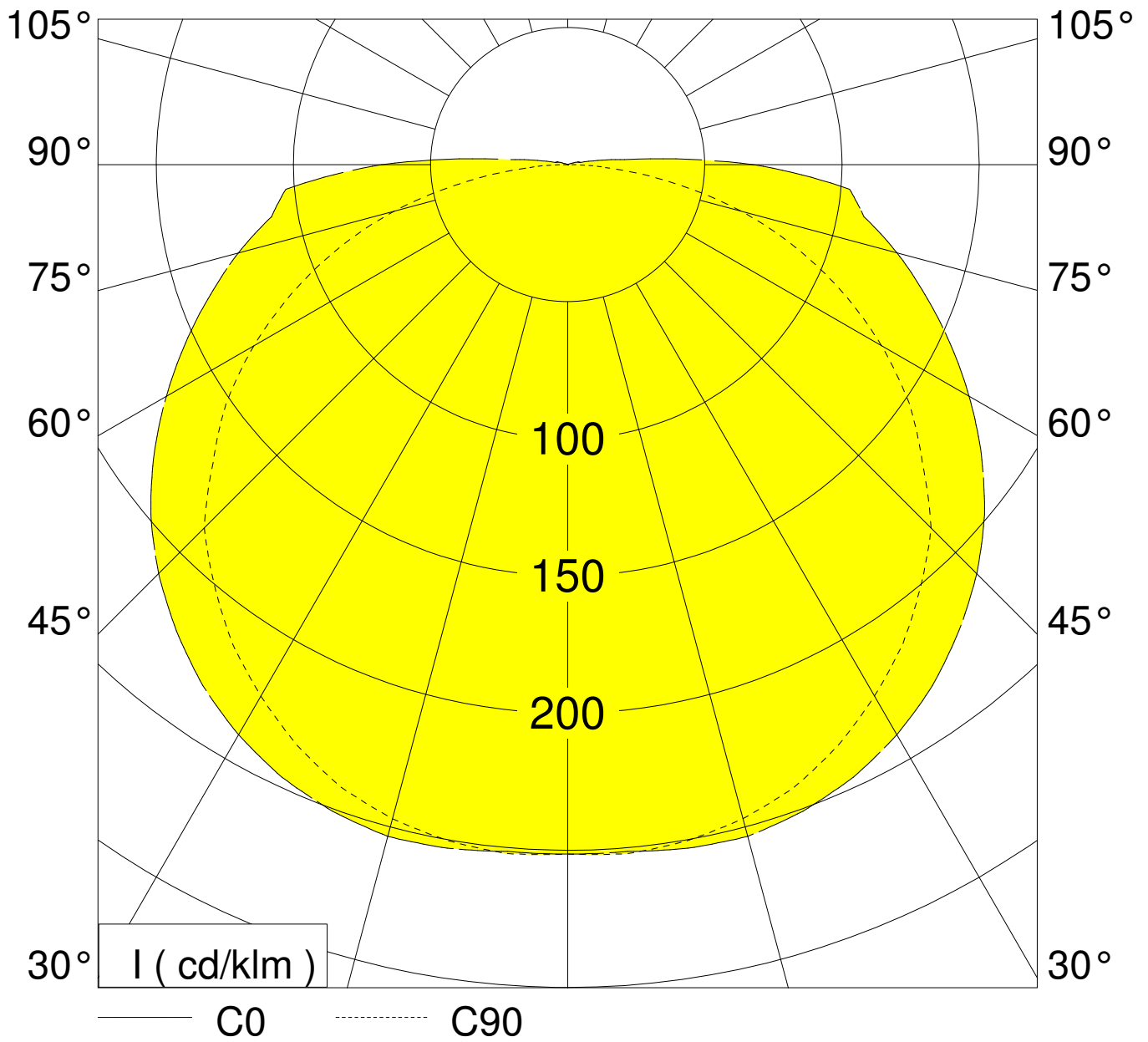
**performance**

light output ratio : 100.0 %  
 DFF : 98.0 %  
 UFF : 2.0 %

**classification**

LiTG / DIN : A30  
 UTE : 0.98G+0.02T 0.98H+0.02T  
 CIE : 38 67 87 98 100  
 BZ : 1 5 5 5 6 6 6 6 6  
 Ambient Temperature : 25 degC  
 Input Voltage : 240 V  
 Circuit Watts : 19.1W  
 Amps (running) : 0.090A  
 V.A. : 21.70VA  
 Power Factor : 0.88  
 CCT : 4257K (measured); 4250K (declared)  
 CRI (Ra) : 90  
 S/P Ratio : 1.8  
 Luminaire Lumens : 2600LLm  
 Output Current DC : 170mA  
 Output Voltage DC : 90.9V  
 Output Power : 15.45W  
 Luminaire Lm/circ.Watt : 136 LLm/circ.Watt  
 Driver Efficiency : 81%  
 Driver Details : TRIDONIC LC50W 100-400mA FLEX C1p EXC 28000680





	C 0.0	C 15.0	C 30.0	C 45.0	C 60.0	C 75.0	C 90.0
0.0°	251.20	251.20	251.20	251.20	251.20	251.20	251.20
5.0°	251.20	251.10	251.00	251.20	251.50	251.80	252.00
10.0°	252.90	252.20	251.50	250.80	250.10	250.20	250.20
15.0°	253.40	252.30	251.20	248.90	246.70	246.70	246.70
20.0°	250.70	249.90	249.10	246.50	244.00	242.70	241.40
25.0°	246.30	245.80	245.30	242.20	239.20	236.30	233.40
30.0°	239.90	239.40	238.90	234.80	230.60	227.10	223.60
35.0°	231.80	231.20	230.60	225.30	220.00	216.50	213.00
40.0°	221.80	220.80	219.90	215.00	210.20	205.20	200.20
45.0°	210.80	209.60	208.40	203.10	197.80	192.60	187.30
50.0°	198.30	197.40	196.30	189.30	182.50	175.60	168.70
55.0°	184.00	183.40	183.00	174.20	165.60	158.80	152.00
60.0°	168.90	166.80	164.70	156.50	148.30	140.10	132.10
65.0°	153.60	152.10	150.50	140.80	131.20	121.10	110.80
70.0°	138.50	137.00	135.50	125.30	115.20	101.90	88.60
75.0°	124.20	122.80	121.30	109.20	97.00	81.10	65.30
80.0°	109.60	108.10	106.60	94.90	83.20	61.50	39.80
85.0°	103.10	100.80	98.50	83.60	68.80	42.10	15.40
90.0°	67.70	65.80	63.80	51.40	39.20	19.60	0.00
95.0°	20.80	15.80	10.70	7.60	4.60	2.30	0.00
100.0°	4.60	4.50	4.30	4.00	3.80	1.90	0.00
105.0°	3.80	3.80	3.80	1.90	0.00	0.00	0.00
110.0°	0.00	0.00	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	20.3	22.0	20.6	22.2	22.5	20.5	22.1	20.8	22.3	22.6
	3H	21.9	23.2	22.1	23.4	23.6	21.8	23.1	22.1	23.3	23.6
	4H	22.9	24.1	23.2	24.4	24.6	22.6	23.9	23.0	24.2	24.4
	6H	23.8	25.0	24.1	25.3	25.6	23.2	24.4	23.6	24.7	25.0
	8H	24.3	25.5	24.7	25.8	26.1	23.5	24.7	23.9	25.0	25.3
	12H	24.9	26.1	25.2	26.4	26.7	23.7	24.9	24.0	25.2	25.5
4H	2H	20.7	21.9	21.0	22.2	22.4	20.7	22.0	21.1	22.3	22.5
	3H	23.0	24.2	23.4	24.5	24.8	22.9	24.1	23.3	24.4	24.7
	4H	24.2	25.4	24.6	25.7	26.1	24.0	25.1	24.4	25.5	25.8
	6H	25.2	26.1	25.6	26.5	26.8	24.6	25.5	25.0	25.9	26.3
	8H	25.7	26.7	26.2	27.0	27.4	24.9	25.8	25.3	26.2	26.6
	12H	26.5	27.4	26.9	27.8	28.3	25.2	26.1	25.7	26.6	27.0
8H	4H	24.5	25.4	24.9	25.8	26.2	24.3	25.2	24.7	25.6	26.0
	6H	26.1	27.0	26.6	27.5	28.0	25.6	26.5	26.1	26.9	27.4
	8H	27.0	27.8	27.5	28.3	28.8	26.2	27.0	26.7	27.5	28.0
	12H	27.6	28.3	28.1	28.8	29.4	26.4	27.1	27.0	27.6	28.2
12H	4H	24.7	25.6	25.2	26.1	26.5	24.5	25.4	25.0	25.9	26.3
	6H	26.4	27.3	26.9	27.7	28.3	25.9	26.8	26.4	27.2	27.8
	8H	27.1	27.8	27.6	28.3	28.9	26.4	27.1	26.9	27.6	28.1
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	+0.2/                      -0.3				+0.2/                      -0.4					
standard-table		BK09					BK07				
correction for luminaire		10.4					8.8				
correct glare indices for a total flux of 2600lm											

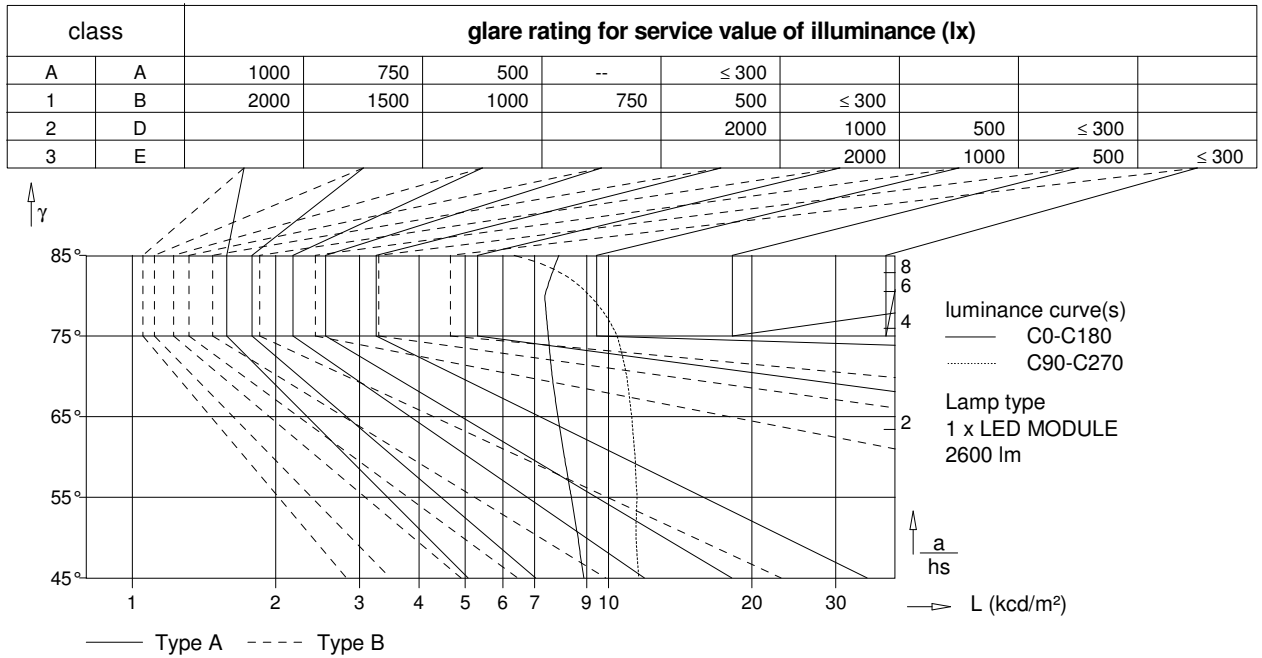


Table of intensities

gamma	C 0	C 90	C 180	C 270
45°	8871.0	11574.7	8871.0	11574.7
50°	8628.5	11422.4	8628.5	11422.4
55°	8353.6	11476.8	8353.6	11476.8
60°	8080.2	11370.0	8080.2	11370.0
65°	7828.5	11187.4	7828.5	11187.4
70°	7614.5	10918.9	7614.5	10918.9
75°	7473.5	10426.4	7473.5	10426.4
80°	7344.8	9120.4	7344.8	9120.4
85°	7863.1	6333.4	7863.1	6333.4

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	82	86	90	95	98
70	30	20	N/A	54	61	66	74	80	84	90	94
70	10	20	N/A	48	55	60	68	74	79	85	90
50	50	20	N/A	60	66	71	78	83	86	91	94
50	30	20	N/A	53	59	64	72	77	81	86	90
50	10	20	N/A	47	54	59	67	72	76	82	86
30	50	20	N/A	58	64	68	75	79	82	86	89
30	30	20	N/A	52	58	63	70	74	78	83	86
30	10	20	N/A	46	53	58	65	70	74	80	83
0	0	0	N/A	44	50	54	61	66	70	75	78
BZ-class			1	5	5	5	6	6	6	6	6
SHRnom : 1.75						SHRmax : 1.773					

