

filename : MT50-LED-T3-CL-HE.LDT  
 meas. number : 2703  
 luminaire number : MT50 LED T3 CL HE  
 date / operator : 24-09-2018

**default lamp type(s)**

no of lamps	lamp type	luminaire lumens	input wattage
1	LED MODULE	1950 lm	14.9 W

**dimensions**

luminaire		luminous area	
length	: 945 mm	length	: 885 mm
width	: 55 mm	width	: 50 mm
height	: 55 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			

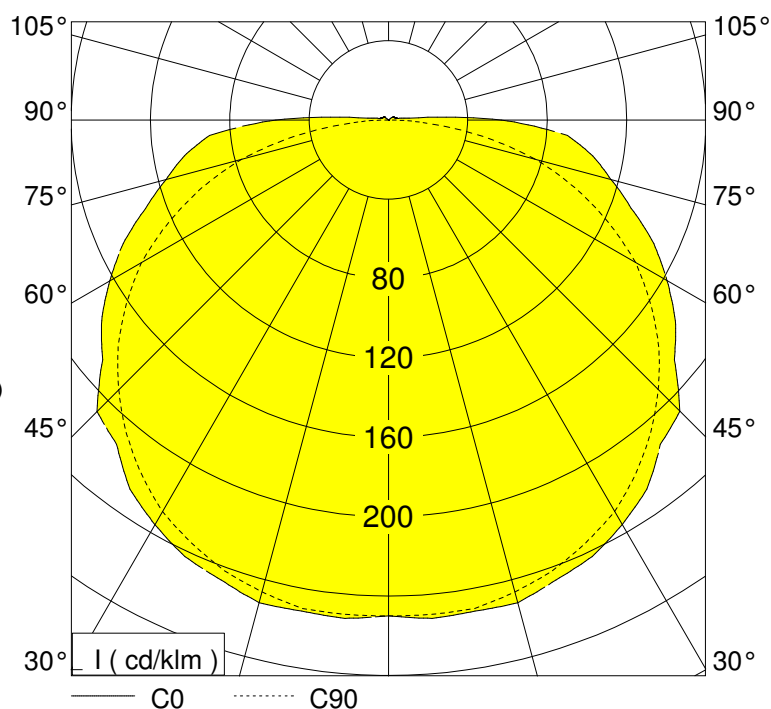
**performance**

light output ratio : 100.0 %  
 DFF : 97.9 %  
 UFF : 2.1 %

**classification**

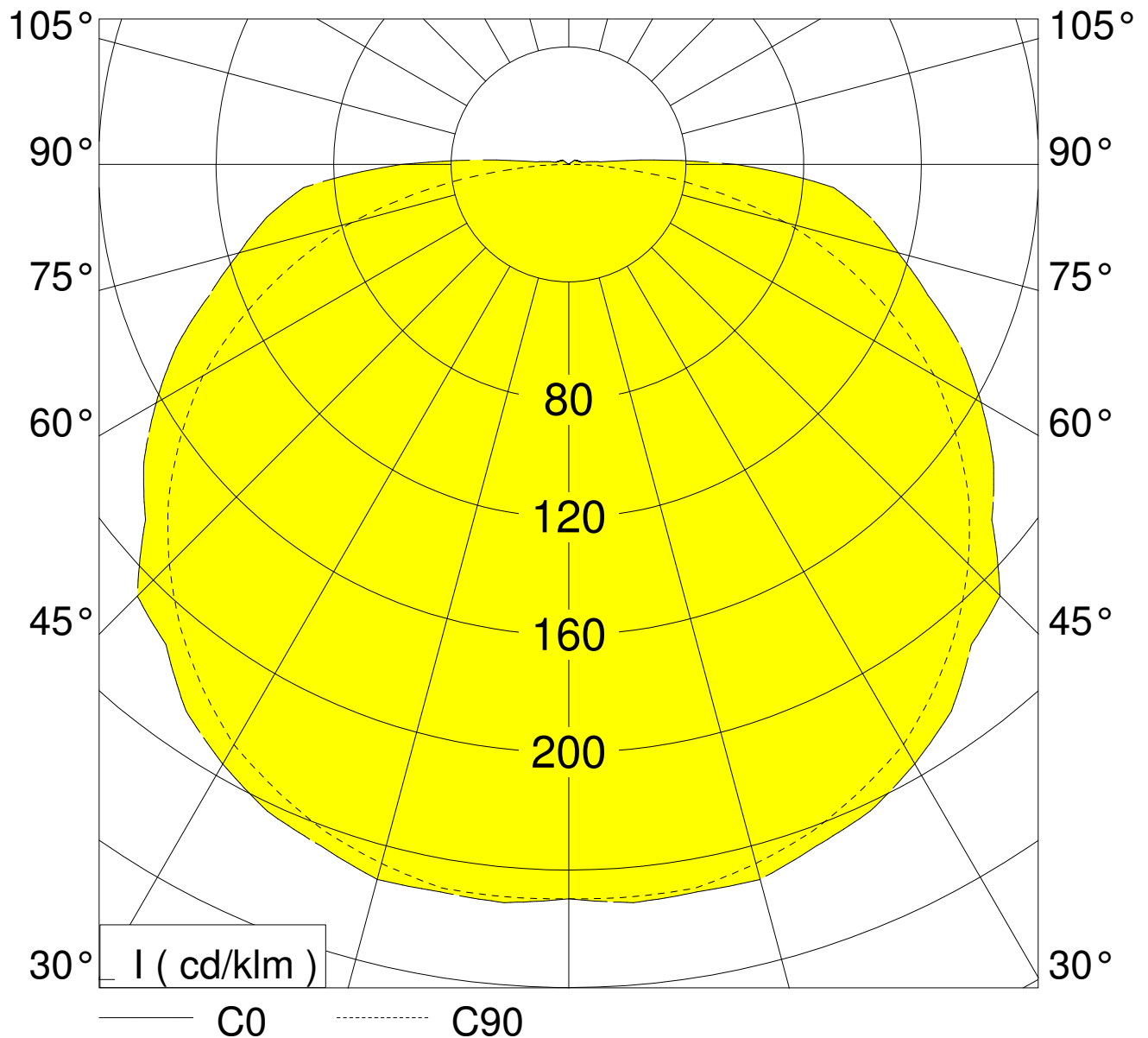
LiTG / DIN : A31  
 UTE : 0.98G+0.02T 0.98H+0.02T  
 CIE : 37 67 87 98 100  
 BZ : 6 6 6 6 6 6 6 6 6 6

Ambient Temperature : 25 degC  
 Input Voltage : 240 V  
 Circuit Watts : 14.9W  
 Amps (running) : 0.073A  
 V.A. : 17.53VA  
 Power Factor : 0.85  
 CCT : 4223K (measured): 4000K (declared)  
 CRI (Ra) : 91  
 S/P Ratio : 1.8  
 Luminaire Lumens : 1950LLm  
 Output Current DC : 170mA  
 Output Voltage DC : 67.9V  
 Output Power : 11.54W  
 Luminaire Lm/circ.Watt : 131 LLm/circ.Watt  
 Driver Efficiency : 77%  
 Driver Details : TRIDONIC LC50W 100-400mA  
 FLEX C1p EXC - 28000680



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°	249.60	249.60	249.60	249.60	249.60	249.60	249.60
5.0°	251.90	251.90	251.90	251.20	250.50	250.20	249.90
10.0°	251.10	251.30	251.60	251.30	251.10	250.40	249.70
15.0°	251.60	250.90	250.20	249.30	248.30	247.20	246.00
20.0°	246.50	247.20	248.00	246.50	244.90	243.20	241.50
25.0°	242.60	242.40	242.10	240.60	239.00	237.00	234.90
30.0°	235.30	235.30	235.30	234.40	233.40	230.50	227.70
35.0°	226.90	226.70	226.60	224.90	223.20	220.20	217.20
40.0°	213.10	214.80	216.50	214.50	212.50	209.00	205.50
45.0°	207.50	204.80	202.10	201.30	200.30	196.20	192.10
50.0°	187.90	192.00	196.20	190.10	184.10	180.90	177.70
55.0°	176.40	175.90	175.40	173.10	170.90	165.90	161.00
60.0°	162.00	162.70	163.50	156.20	149.00	146.30	143.60
65.0°	147.40	147.80	148.20	143.20	138.20	130.20	122.20
70.0°	130.10	131.60	133.00	124.40	115.90	108.00	99.90
75.0°	116.00	116.80	117.50	109.40	101.20	88.90	76.50
80.0°	104.40	106.70	109.10	96.90	84.60	66.50	48.30
85.0°	90.50	92.10	93.60	83.80	73.90	46.60	19.50
90.0°	56.80	56.20	55.50	47.40	39.40	19.70	0.00
95.0°	10.70	8.40	6.20	5.50	4.80	2.40	0.00
100.0°	4.50	4.40	4.30	4.10	3.90	1.90	0.00
105.0°	3.90	3.80	3.70	3.50	3.20	1.60	0.00
110.0°	3.40	3.30	3.20	2.90	2.50	1.20	0.00
115.0°	3.10	3.00	2.90	2.60	2.20	1.10	0.00
120.0°	2.80	2.70	2.60	1.30	0.00	0.00	0.00
125.0°	2.60	1.30	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	21.7	20.4	22.0	22.2	20.6	22.3	20.9	22.5	22.8
	3H	21.6	22.9	21.9	23.1	23.3	22.1	23.4	22.4	23.7	23.9
	4H	22.5	23.8	22.9	24.1	24.3	23.0	24.3	23.4	24.6	24.8
	6H	23.5	24.7	23.8	25.0	25.3	23.7	24.9	24.1	25.2	25.5
	8H	24.0	25.2	24.3	25.5	25.8	24.0	25.2	24.4	25.5	25.8
	12H	24.4	25.6	24.8	25.9	26.3	24.2	25.4	24.6	25.7	26.0
4H	2H	20.5	21.8	20.8	22.0	22.3	20.9	22.2	21.2	22.4	22.7
	3H	22.8	23.9	23.1	24.2	24.6	23.1	24.3	23.5	24.6	24.9
	4H	24.0	25.1	24.4	25.5	25.8	24.3	25.5	24.7	25.8	26.1
	6H	24.9	25.8	25.3	26.2	26.6	25.0	25.9	25.4	26.3	26.6
	8H	25.4	26.4	25.9	26.7	27.1	25.3	26.2	25.7	26.6	27.0
	12H	26.1	27.0	26.6	27.4	27.9	25.7	26.6	26.2	27.0	27.5
8H	4H	24.3	25.2	24.7	25.6	26.0	24.5	25.5	25.0	25.8	26.2
	6H	25.9	26.8	26.4	27.2	27.7	25.9	26.8	26.4	27.2	27.7
	8H	26.7	27.6	27.2	28.1	28.6	26.5	27.4	27.0	27.8	28.4
	12H	27.3	28.0	27.8	28.5	29.0	26.8	27.5	27.3	28.0	28.6
12H	4H	24.5	25.4	25.0	25.8	26.3	24.8	25.7	25.3	26.1	26.6
	6H	26.2	27.0	26.7	27.5	28.1	26.2	27.0	26.7	27.5	28.1
	8H	26.9	27.6	27.4	28.1	28.6	26.7	27.4	27.2	27.9	28.4
variation of observer position											
S =	1.0H	+0.1/      -0.1				+0.1/      -0.1					
	1.5H	+0.2/      -0.2				+0.1/      -0.1					
	2.0H	+0.2/      -0.4				+0.2/      -0.3					
standard-table		BK09					BK08				
correction for luminaire		10.1					9.7				
correct glare indices for a total flux of 1950lm											

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

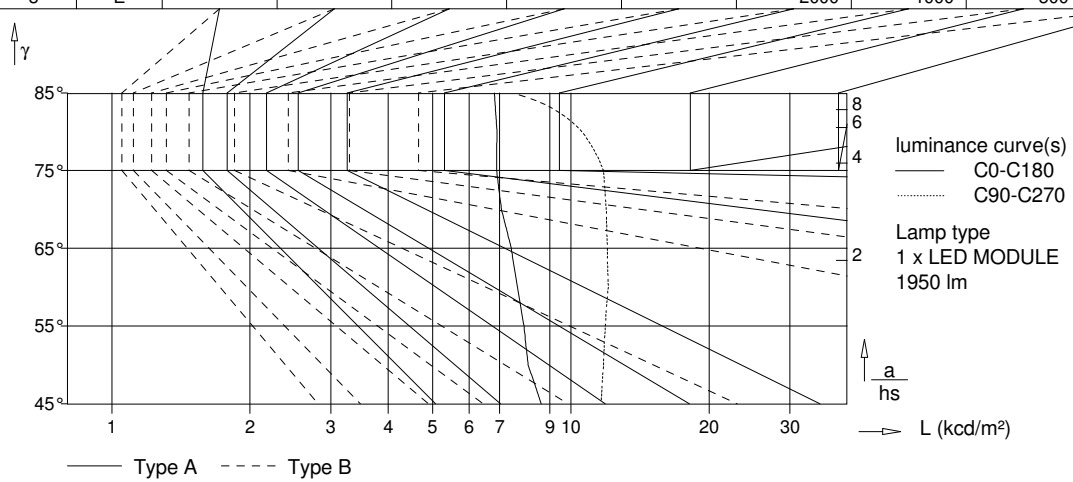


Table of intensities

gamma	C 0	C 90	C 180	C 270
45°	8621.1	11643.0	8621.1	11643.0
50°	8072.0	11785.9	8072.0	11785.9
55°	7906.8	11889.9	7906.8	11889.9
60°	7651.5	12065.9	7651.5	12065.9
65°	7417.0	12014.4	7417.0	12014.4
70°	7061.8	11944.6	7061.8	11944.6
75°	6891.3	11783.0	6891.3	11783.0
80°	6907.4	10564.8	6907.4	10564.8
85°	6814.4	7453.1	6814.4	7453.1

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	52	60	68	73	80	86	89	94	98
70	30	20	44	52	59	65	73	79	83	89	93
70	10	20	38	45	53	58	67	73	78	84	89
50	50	20	50	58	65	70	77	82	85	90	93
50	30	20	43	50	58	63	70	76	80	85	89
50	10	20	37	44	52	57	65	71	75	82	86
30	50	20	49	56	62	67	73	78	81	86	89
30	30	20	42	49	56	61	68	73	77	82	86
30	10	20	37	44	51	56	64	69	73	79	83
0	0	0	34	41	48	53	60	65	69	74	77
BZ-class			6	6	6	6	6	6	6	6	6
SHRnom : 1.50						SHRmax : 1.745					

