

filename : MT50-LED-T4-CL-HO.LDT
 meas. number : 2890
 luminaire number : MT50-LED-T4-CL-HO
 date / operator : 07-03-2019

**default lamp type(s)**

no of lamps	lamp type	luminaire lumens	input wattage
1	LED MODULE	5240 lm	35.4 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

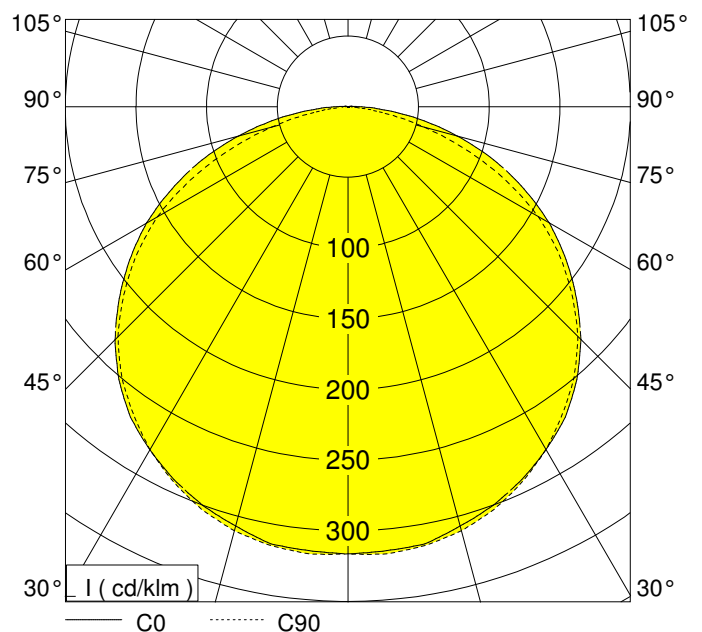
no of planes	: 7	samples / plane	: 37
first c-plane	: 0.0 °	first gamma-angle	: 0.0 °
step angle	: 15.0 °	step angle	: 5.0 °
last c-plane	: 90.0 °	last gamma-angle	: 180.0 °
symmetrics : symmetry to C0 / C90			

performance

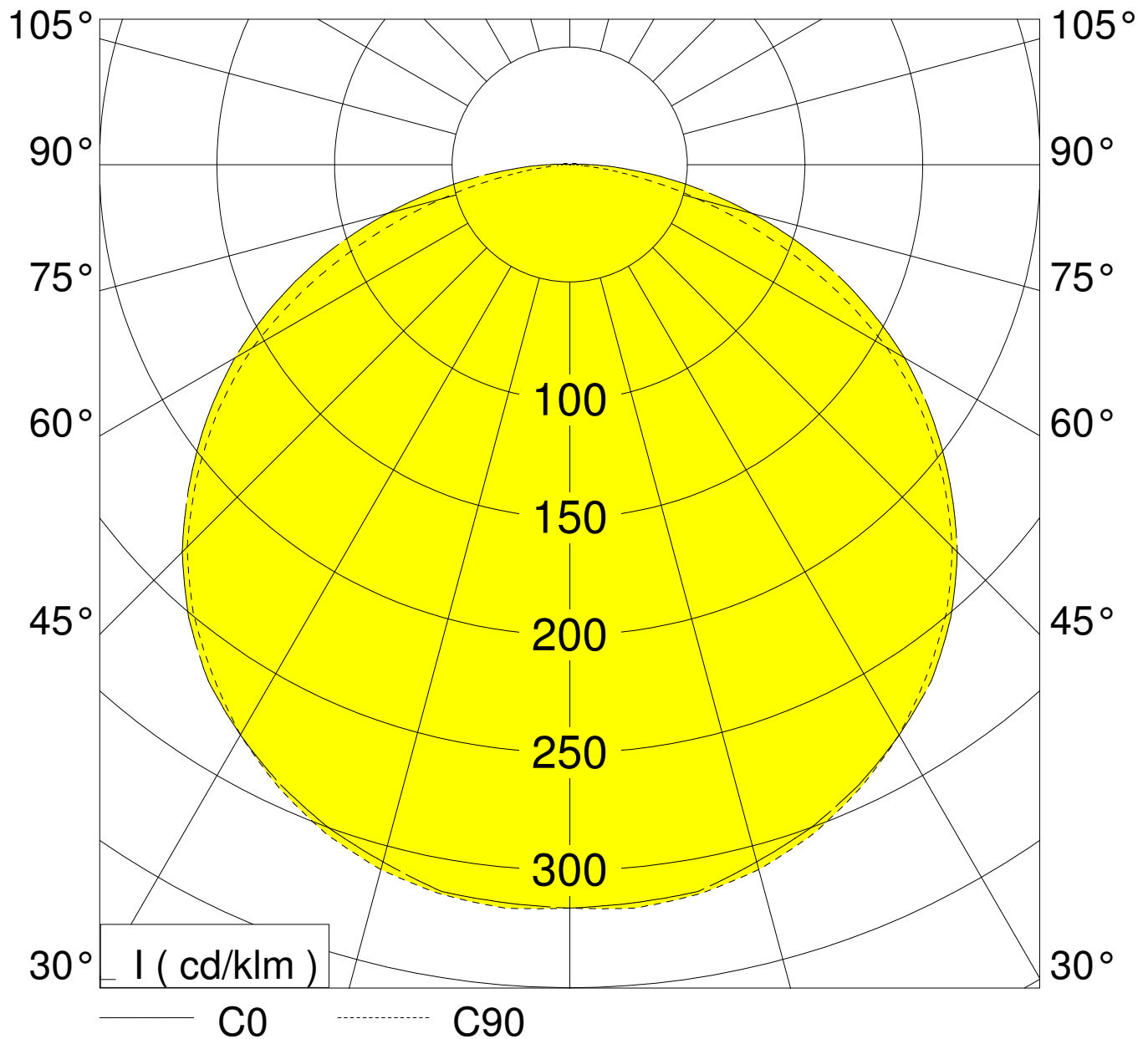
light output ratio : 100.0 %
 DFF : 99.6 %
 UFF : 0.4 %

classification

LiTG / DIN : A40
 UTE : 1.00E+0.00T
 CIE : 45 77 95 100 100
 BZ : 5 5 5 5 5 5 5 5
 Ambient Temperature : 25 degC
 Input Voltage : 240 V
 Circuit Watts : 35.4W
 Amps (running) : 0.157A
 V.A. : 37.66VA
 Power Factor : 0.94
 CCT : K (measured): K (declared)
 CRI (Ra) : 86
 S/P Ratio : 1.7
 Luminaire Lumens : 5240 LLm
 Output Current DC : 350mA
 Output Voltage DC : 89.1V
 Output Power : 31.19W
 Luminaire Lm/circ.Watt : 148 LLm/circ.Watt
 Driver Efficiency : 89%
 Driver Details : TRIDONIC LC 50W 100-400mA
 FLEX C 1P EXC 280000680



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°	315.90	315.90	315.90	315.90	315.90	315.90	315.90
5.0°	314.80	315.60	316.50	316.90	317.20	317.10	317.10
10.0°	313.60	314.30	315.00	315.10	315.20	315.00	314.80
15.0°	306.70	308.80	310.80	310.80	310.70	310.40	310.10
20.0°	299.80	301.90	304.10	303.90	303.60	303.10	302.60
25.0°	290.70	292.50	294.30	293.90	293.60	293.00	292.20
30.0°	279.90	281.20	282.60	281.50	280.50	280.20	279.80
35.0°	267.80	269.00	270.20	268.30	266.30	265.50	264.60
40.0°	251.70	253.30	254.80	251.70	248.50	248.60	248.80
45.0°	232.80	235.00	237.20	233.20	229.30	229.60	229.80
50.0°	210.90	212.50	214.10	212.00	209.90	208.30	206.80
55.0°	188.20	189.10	190.00	188.10	186.30	184.40	182.40
60.0°	164.30	165.00	165.60	162.70	159.60	157.50	155.50
65.0°	137.30	137.90	138.50	133.20	128.00	125.60	123.20
70.0°	109.70	109.70	109.60	103.80	97.90	93.60	89.10
75.0°	80.20	80.00	79.70	73.80	67.90	62.00	56.00
80.0°	52.10	51.40	50.60	44.70	38.80	32.70	26.70
85.0°	25.90	24.60	23.30	20.00	16.60	11.40	6.10
90.0°	8.20	7.60	7.10	5.50	4.00	2.00	0.00
95.0°	2.90	2.90	2.80	2.50	2.10	1.10	0.00
100.0°	2.10	2.00	2.00	1.90	1.90	0.90	0.00
105.0°	1.80	1.90	1.90	0.90	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	23.0	24.6	23.3	24.8	25.0	23.8	25.4	24.1	25.6	25.8
	3H	23.8	25.0	24.1	25.2	25.3	24.7	25.8	24.9	26.0	26.2
	4H	24.4	25.5	24.6	25.7	25.9	25.2	26.3	25.5	26.5	26.7
	6H	24.7	25.8	25.0	26.0	26.3	25.5	26.5	25.8	26.8	27.0
	8H	24.9	25.9	25.2	26.2	26.4	25.6	26.6	25.9	26.9	27.1
	12H	25.0	26.0	25.3	26.3	26.5	25.6	26.7	25.9	26.9	27.2
4H	2H	23.2	24.3	23.4	24.5	24.7	23.8	24.9	24.0	25.1	25.3
	3H	24.8	25.9	25.2	26.2	26.4	25.5	26.5	25.8	26.8	27.1
	4H	25.6	26.6	25.9	26.9	27.2	26.2	27.2	26.6	27.5	27.8
	6H	25.8	26.7	26.2	27.0	27.3	26.4	27.2	26.7	27.5	27.8
	8H	26.0	26.8	26.4	27.1	27.5	26.5	27.3	26.9	27.6	28.0
	12H	26.3	27.0	26.7	27.4	27.8	26.7	27.5	27.1	27.8	28.2
8H	4H	25.7	26.5	26.1	26.8	27.2	26.2	27.0	26.6	27.4	27.7
	6H	26.5	27.3	27.0	27.7	28.1	27.0	27.7	27.4	28.1	28.6
	8H	26.8	27.6	27.3	28.0	28.5	27.2	27.9	27.7	28.4	28.8
	12H	26.9	27.5	27.4	27.9	28.4	27.2	27.8	27.7	28.2	28.7
12H	4H	25.9	26.6	26.3	27.0	27.4	26.4	27.2	26.9	27.6	28.0
	6H	26.7	27.4	27.2	27.8	28.3	27.1	27.8	27.6	28.3	28.8
	8H	26.8	27.4	27.3	27.9	28.4	27.2	27.8	27.7	28.2	28.7
variation of observer position											
S =	1.0H	+0.1/ -0.1				+0.1/ -0.1					
	1.5H	+0.3/ -0.4				+0.2/ -0.3					
	2.0H	+0.4/ -0.8				+0.6/ -0.7					
standard-table		BK05					BK05				
correction for luminaire		9.3					9.8				
correct glare indices for a total flux of 5240lm											

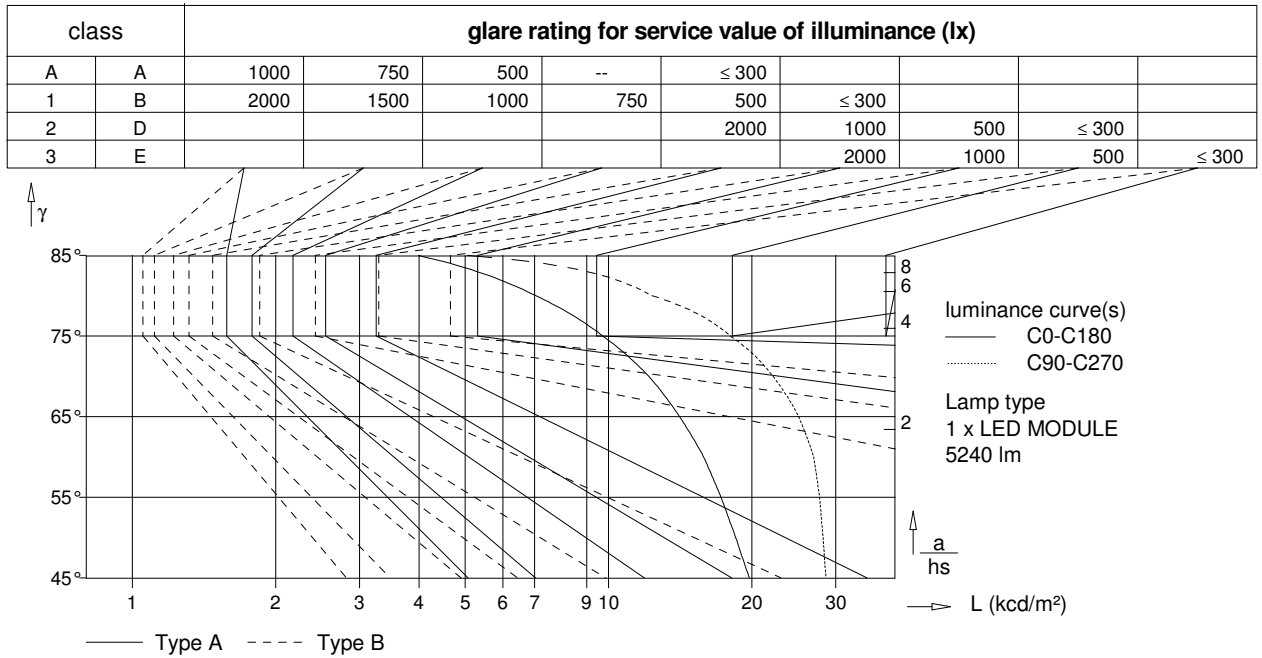


Table of intensities

gamma	C 0	C 90	C 180	C 270
45°	19744.3	28620.6	19744.3	28620.6
50°	18494.6	28219.6	18494.6	28219.6
55°	17220.0	27756.1	17220.0	27756.1
60°	15841.1	26974.1	15841.1	26974.1
65°	14103.1	25070.2	14103.1	25070.2
70°	12155.1	22130.0	12155.1	22130.0
75°	9726.0	18020.6	9726.0	18020.6
80°	7036.6	12331.0	7036.6	12331.0
85°	3981.0	5055.9	3981.0	5055.9

all values in cd/m²

utilization factors / TM5											
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	58	66	74	79	87	92	95	100	103
70	30	20	50	59	67	72	80	86	90	95	99
70	10	20	45	53	61	67	75	81	86	92	96
50	50	20	56	64	72	77	83	88	91	96	98
50	30	20	49	57	65	71	78	83	87	92	95
50	10	20	44	52	60	66	74	79	83	89	93
30	50	20	55	62	69	74	80	85	88	92	94
30	30	20	49	56	64	69	76	81	84	89	92
30	10	20	44	52	59	65	72	77	81	86	90
0	0	0	42	49	56	61	69	74	77	82	85
BZ-class			5	5	5	5	5	5	5	5	5
SHRnom : 1.50						SHRmax : 1.675					

