

filename : MT50-LED-T2-CL-HO.LDT
 meas. number : 2888
 luminaire number : MT50-LED-T2-CL-HO
 date / operator : 06-03-2019

**default lamp type(s)**

no of lamps	lamp type	luminaire lumens	wattage
1	LED MODULE	3015 lm	18.4 W

dimensions

luminaire		luminous area	
length	: 645 mm	length	: 588 mm
width	: 50 mm	width	: 50 mm
height	: 50 mm	height	: 25 mm

coordinate system

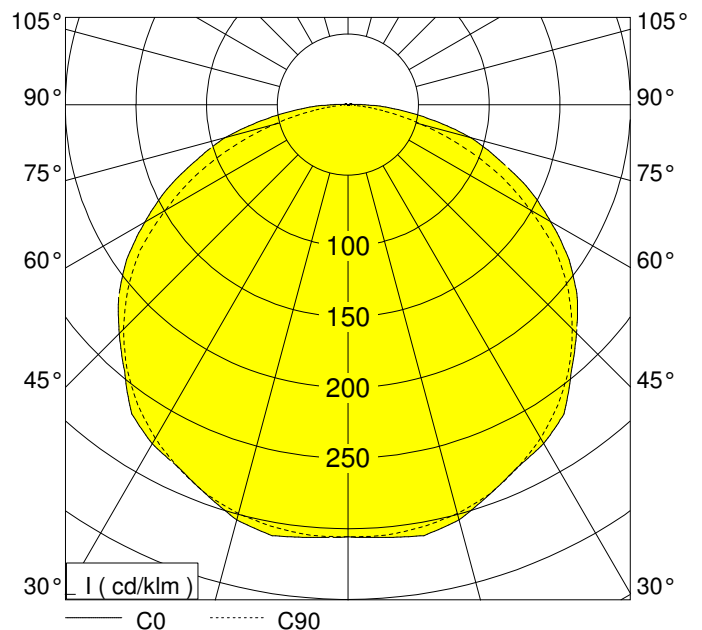
no of planes	: 7	samples / plane	: 37
first c-plane	: 0.0 °	first gamma-angle	: 0.0 °
step angle	: 15.0 °	step angle	: 5.0 °
last c-plane	: 90.0 °	last gamma-angle	: 180.0 °
symmetrics : symmetry to C0 / C90			

performance

light output ratio : 100.0 %
 DFF : 99.5 %
 UFF : 0.5 %

classification

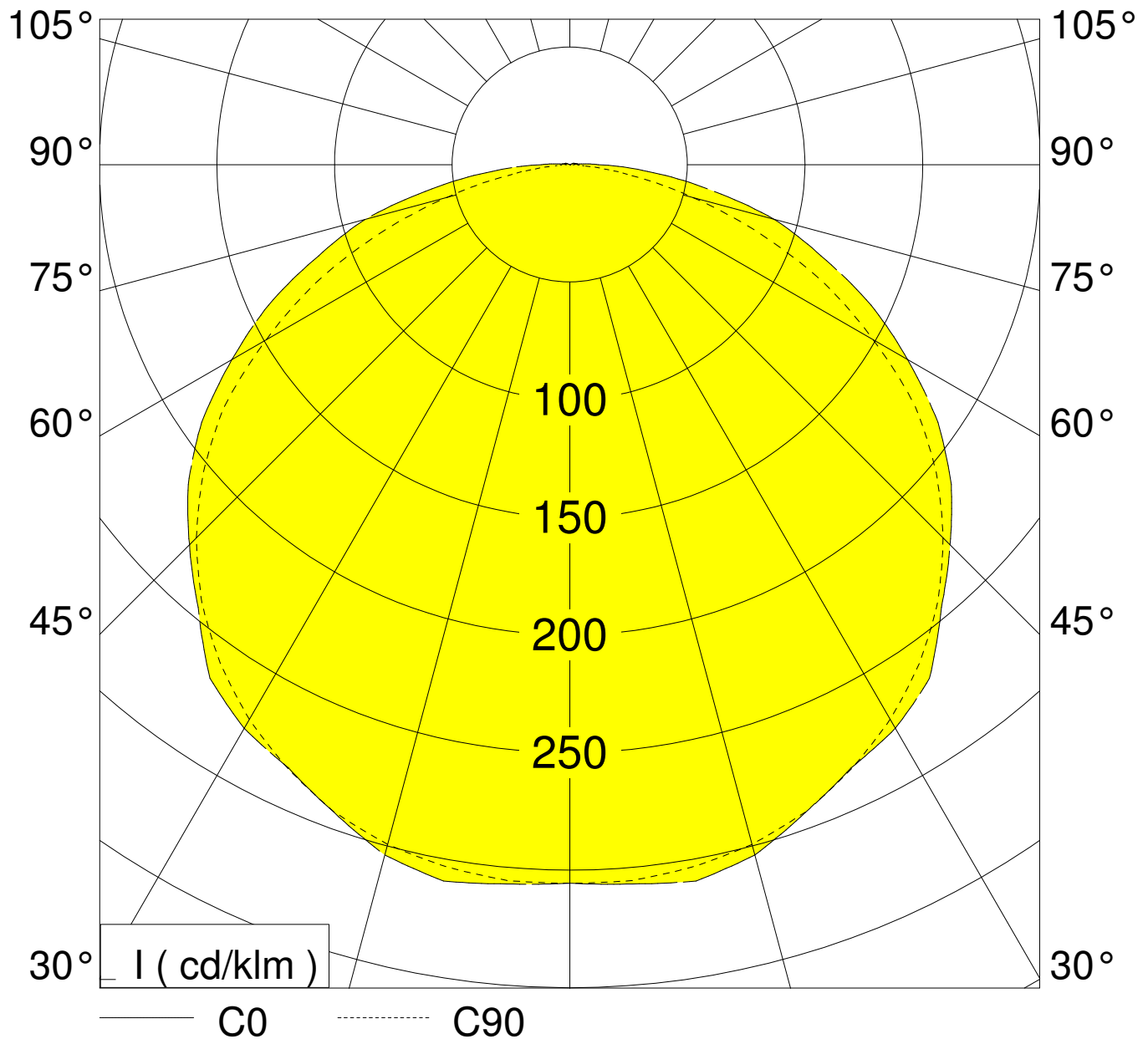
LiTG / DIN : A40
 UTE : 0.99E+0.01T
 CIE : 44 76 94 99 100
 BZ : 5 5 5 5 5 5 5 5
 Ambient Temperature : 25 degC
 Input Voltage : 240 V
 Circuit Watts : 18.4 W
 Amps (running) : 0.085A
 V.A. : 20.44VA
 Power Factor : 0.90
 CCT : 4046K (measured): 4000K (declared)
 CRI (Ra) : 86
 S/P Ratio : 1.9
 Luminaire Lumens : 3015 LLm
 Output Current DC : 350mA
 Output Voltage DC : 44.5V
 Output Power : 15.57W
 Luminaire Lm/circ.Watt : 164 LLm/circ.Watt
 Driver Efficiency : 86%
 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°	305.30	305.30	305.30	305.30	305.30	305.30	305.30
5.0°	306.80	306.40	306.00	306.00	306.00	305.70	305.30
10.0°	309.10	309.20	309.20	306.80	304.50	303.70	302.90
15.0°	303.70	304.90	306.00	304.90	303.70	301.30	299.00
20.0°	292.90	295.50	298.20	299.00	299.80	296.20	292.70
25.0°	282.80	284.30	285.70	288.10	290.40	286.80	283.20
30.0°	276.60	275.30	274.00	276.30	278.60	275.40	272.20
35.0°	266.50	266.30	266.20	264.20	262.20	260.50	258.80
40.0°	245.60	248.90	252.10	247.80	243.40	243.20	243.10
45.0°	228.50	229.40	230.30	227.50	224.60	224.50	224.30
50.0°	211.60	211.30	211.10	209.30	207.50	205.30	203.10
55.0°	190.90	191.20	191.40	190.40	189.40	184.30	179.20
60.0°	165.70	166.80	168.00	162.30	156.50	152.70	148.90
65.0°	141.20	141.20	141.20	135.30	129.40	124.30	119.30
70.0°	113.60	113.30	112.90	106.50	100.10	93.20	86.30
75.0°	90.10	89.20	88.40	79.40	70.40	62.30	54.20
80.0°	59.40	58.90	58.40	50.70	43.10	34.90	26.80
85.0°	33.10	31.90	30.80	25.70	20.70	13.80	6.80
90.0°	12.20	11.50	10.90	8.40	6.00	3.00	0.00
95.0°	3.30	3.30	3.20	2.60	2.00	1.00	0.00
100.0°	2.20	2.20	2.20	2.00	1.70	0.90	0.00
105.0°	1.90	1.80	1.60	1.60	1.60	0.80	0.00
110.0°	1.80	1.70	1.60	0.80	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	23.5	25.0	23.8	25.2	25.5	24.1	25.6	24.4	25.8	26.1
	3H	24.3	25.5	24.6	25.7	25.9	24.9	26.1	25.2	26.3	26.5
	4H	25.0	26.1	25.3	26.4	26.6	25.4	26.6	25.7	26.8	27.0
	6H	25.4	26.5	25.7	26.8	27.0	25.7	26.8	26.0	27.0	27.3
	8H	25.6	26.7	25.9	26.9	27.2	25.8	26.9	26.1	27.1	27.4
	12H	25.7	26.8	26.1	27.1	27.3	25.9	26.9	26.2	27.2	27.5
4H	2H	23.6	24.8	23.9	25.0	25.2	24.1	25.2	24.4	25.4	25.7
	3H	25.4	26.5	25.7	26.7	27.0	25.8	26.9	26.1	27.1	27.4
	4H	26.2	27.3	26.6	27.6	27.9	26.5	27.6	26.9	27.8	28.1
	6H	26.6	27.4	26.9	27.8	28.1	26.7	27.5	27.0	27.8	28.2
	8H	26.8	27.6	27.2	27.9	28.3	26.8	27.6	27.2	27.9	28.3
	12H	27.1	27.9	27.5	28.3	28.7	27.0	27.8	27.4	28.2	28.6
8H	4H	26.4	27.2	26.7	27.5	27.9	26.6	27.4	27.0	27.7	28.1
	6H	27.3	28.1	27.8	28.5	28.9	27.3	28.1	27.8	28.5	28.9
	8H	27.7	28.4	28.2	28.9	29.3	27.6	28.3	28.1	28.8	29.2
	12H	27.8	28.4	28.3	28.8	29.3	27.6	28.2	28.1	28.6	29.1
12H	4H	26.5	27.3	27.0	27.7	28.1	26.8	27.6	27.2	28.0	28.4
	6H	27.5	28.2	27.9	28.6	29.1	27.5	28.2	28.0	28.7	29.2
	8H	27.7	28.3	28.2	28.7	29.2	27.6	28.2	28.1	28.6	29.1
variation of observer position											
S =	1.0H	+0.1/ -0.1				+0.1/ -0.1					
	1.5H	+0.2/ -0.3				+0.2/ -0.3					
	2.0H	+0.4/ -0.7				+0.6/ -0.6					
standard-table		BK06					BK05				
correction for luminaire		10.4					10.2				
correct glare indices for a total flux of 3015lm											

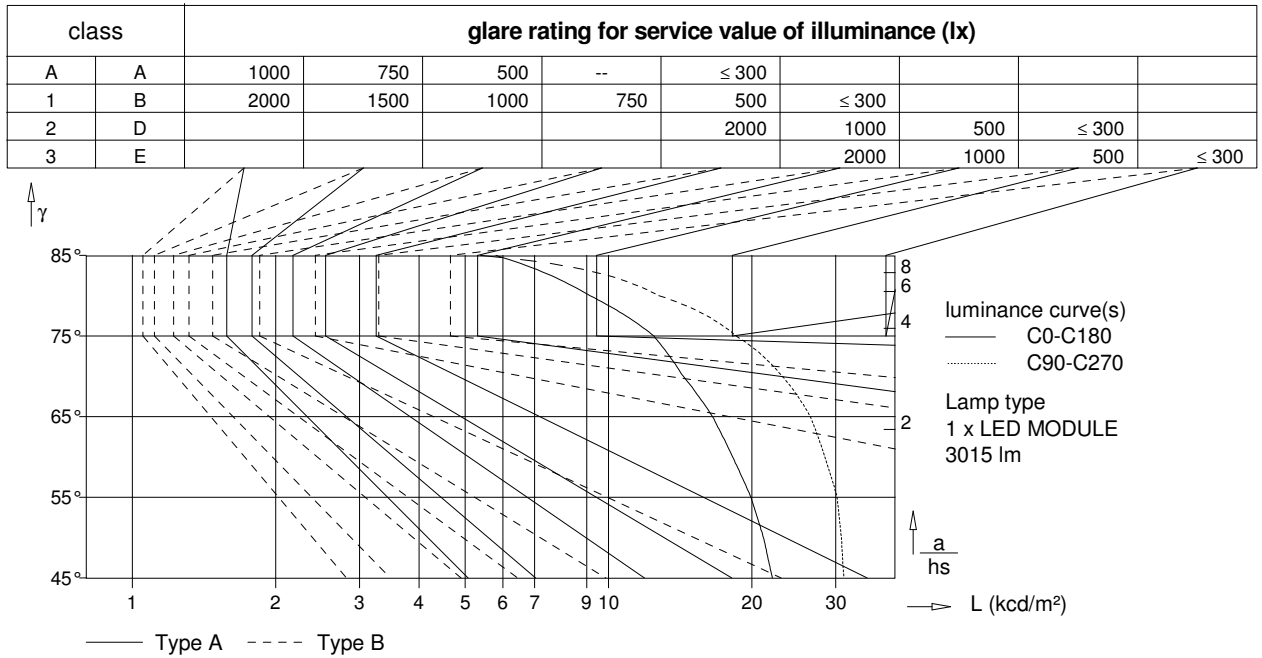


Table of intensities

gamma	C 0	C 90	C 180	C 270
45°	22092.8	31203.3	22092.8	31203.3
50°	21153.8	30840.1	21153.8	30840.1
55°	19912.5	30205.5	19912.5	30205.5
60°	18212.7	28445.0	18212.7	28445.0
65°	16534.2	26530.0	16534.2	26530.0
70°	14349.4	23169.6	14349.4	23169.6
75°	12456.3	18534.5	12456.3	18534.5
80°	9145.7	12752.3	9145.7	12752.3
85°	5799.9	5384.5	5799.9	5384.5

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	57	66	73	79	86	91	95	99	102
70	30	20	49	58	66	71	80	85	89	95	98
70	10	20	44	52	60	66	74	80	85	91	95
50	50	20	56	64	71	76	83	87	91	95	98
50	30	20	49	57	64	70	77	82	86	91	95
50	10	20	44	51	59	65	73	78	82	88	92
30	50	20	54	62	68	73	80	84	87	91	94
30	30	20	48	55	63	68	75	80	84	88	91
30	10	20	43	51	58	64	71	76	80	86	89
0	0	0	41	48	55	60	68	73	76	81	84
BZ-class			5	5	5	5	5	5	5	5	5
SHRnom : 1.50						SHRmax : 1.686					

