

filename : MT50-LED-T6-SC-HO.LDT
 meas. number : 2795
 luminaire number : MT50-LED-T6-SC-HO
 date / operator : 06-12-2018

**default lamp type(s)**

no of lamps	lamp type	luminaire lumens	input wattage
1	LED MODULE	8015 lm	51.4 W

dimensions

luminaire		luminous area	
length	: 1805 mm	length	: 1745 mm
width	: 50 mm	width	: 50 mm
height	: 50 mm	height	: 25 mm

coordinate system

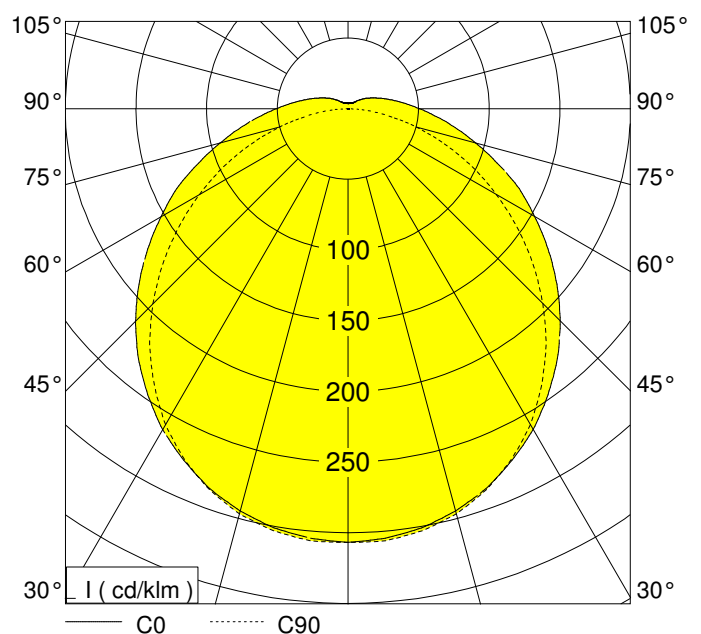
no of planes	: 7	samples / plane	: 37
first c-plane	: 0.0 °	first gamma-angle	: 0.0 °
step angle	: 15.0 °	step angle	: 5.0 °
last c-plane	: 90.0 °	last gamma-angle	: 180.0 °
symmetrics : symmetry to C0 / C90			

performance

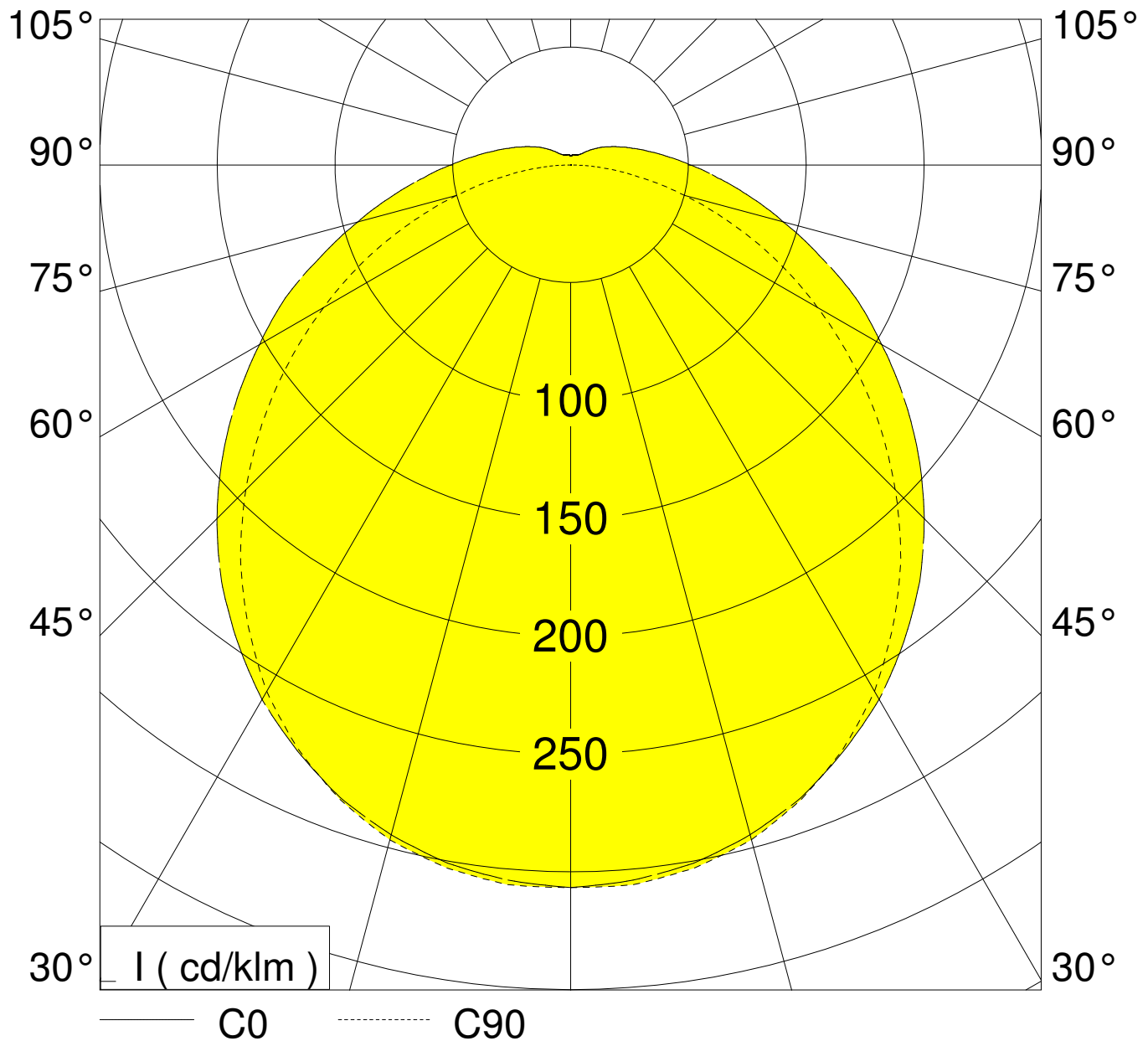
light output ratio : 100.0 %
 DFF : 93.6 %
 UFF : 6.4 %

classification

LiTG / DIN : A41
 UTE : 0.94E+0.06T
 CIE : 44 74 91 94 100
 BZ : 5 5 5 5 5 5 5 5
 Ambient Temperature : 25 degC
 Input Voltage : 240 V
 Circuit Watts : 51.4W
 Amps (running) : 0.221A
 V.A. : 52.99VA
 Power Factor : 0.97
 CCT : 3971K (measured): 4000K (declared)
 CRI (Ra) : 85
 S/P Ratio : 1.7
 Luminaire Lumens : 8015 LLm
 Output Current DC : 340mA
 Output Voltage DC : 133.5V/87500449
 Output Power : 45.39W
 Luminaire Lm/circ.Watt : 156 LLm/circ.Watt
 Driver Efficiency : 88.3%
 Driver Details : TRIDONIC LC53W 250-350mA FLEX C1p adv
 87500449



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°	306.40	306.40	306.40	306.40	306.40	306.40	306.40
5.0°	304.50	305.00	305.50	305.50	305.50	306.00	306.40
10.0°	300.70	301.20	301.70	302.20	302.70	302.70	302.70
15.0°	294.10	295.10	296.10	296.20	296.30	296.30	296.30
20.0°	285.60	286.20	286.70	286.50	286.20	286.30	286.30
25.0°	274.20	274.80	275.40	274.40	273.30	273.40	273.40
30.0°	261.80	262.00	262.30	260.00	257.70	257.70	257.80
35.0°	246.60	246.40	246.20	243.20	240.10	239.30	238.50
40.0°	230.40	229.70	229.10	224.80	220.50	219.20	217.90
45.0°	212.20	211.20	210.20	204.30	198.50	196.70	194.80
50.0°	192.80	191.60	190.40	183.30	176.10	173.50	170.90
55.0°	172.70	171.00	169.40	161.30	153.20	149.50	145.90
60.0°	152.40	150.40	148.40	139.30	130.30	125.70	121.00
65.0°	133.50	130.50	127.30	117.70	108.10	102.50	96.90
70.0°	112.20	109.60	107.10	97.00	86.90	79.70	72.60
75.0°	93.50	91.00	88.50	78.00	67.40	58.70	50.10
80.0°	77.10	74.50	71.90	61.20	50.50	40.00	29.50
85.0°	62.60	60.00	57.40	46.50	35.60	24.20	12.70
90.0°	50.80	48.20	45.60	35.00	24.60	12.30	0.00
95.0°	41.20	38.70	36.10	26.40	16.90	8.40	0.00
100.0°	33.50	31.00	28.40	20.10	11.70	5.90	0.00
105.0°	27.40	25.00	22.50	15.50	8.50	4.20	0.00
110.0°	22.40	20.20	17.90	12.00	6.20	3.10	0.00
115.0°	18.30	16.30	14.30	9.50	4.70	2.40	0.00
120.0°	15.00	13.10	11.20	7.60	4.00	2.00	0.00
125.0°	11.70	10.20	8.70	6.20	3.70	1.80	0.00
130.0°	9.10	8.00	6.90	3.40	0.00	0.00	0.00
135.0°	6.80	6.10	5.30	2.60	0.00	0.00	0.00
140.0°	5.80	5.30	4.80	2.40	0.00	0.00	0.00
145.0°	5.20	4.90	4.50	2.30	0.00	0.00	0.00
150.0°	4.90	4.60	4.20	2.10	0.00	0.00	0.00
155.0°	4.80	4.40	4.00	2.00	0.00	0.00	0.00
160.0°	4.60	4.20	3.80	1.90	0.00	0.00	0.00
165.0°	4.60	4.20	3.80	1.90	0.00	0.00	0.00
170.0°	4.40	4.10	3.80	1.90	0.00	0.00	0.00
175.0°	4.00	3.90	3.80	1.90	0.00	0.00	0.00
180.0°	3.80	3.80	3.80	1.90	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	23.6	25.0	23.9	25.3	25.7	24.4	25.8	24.7	26.1	26.5
	3H	24.6	25.8	24.9	26.1	26.4	25.4	26.6	25.7	26.9	27.2
	4H	25.3	26.4	25.7	26.8	27.1	26.0	27.1	26.4	27.5	27.8
	6H	25.9	27.0	26.3	27.3	27.7	26.4	27.5	26.8	27.9	28.3
	8H	26.2	27.3	26.6	27.7	28.0	26.6	27.7	27.0	28.1	28.5
	12H	26.5	27.6	26.9	28.0	28.4	26.8	27.8	27.2	28.2	28.6
4H	2H	23.8	25.0	24.2	25.3	25.6	24.4	25.6	24.8	25.9	26.2
	3H	25.6	26.7	26.0	27.1	27.5	26.2	27.2	26.6	27.6	28.0
	4H	26.5	27.6	27.0	28.0	28.4	27.0	28.0	27.4	28.4	28.9
	6H	27.0	27.9	27.5	28.4	28.8	27.3	28.2	27.8	28.6	29.1
	8H	27.4	28.2	27.9	28.7	29.2	27.6	28.4	28.1	28.8	29.4
	12H	27.9	28.7	28.4	29.2	29.8	27.9	28.7	28.4	29.2	29.8
8H	4H	26.6	27.5	27.1	27.9	28.4	27.0	27.9	27.5	28.3	28.8
	6H	27.8	28.6	28.4	29.2	29.8	28.0	28.8	28.6	29.3	30.0
	8H	28.4	29.1	29.0	29.7	30.4	28.4	29.1	29.0	29.7	30.4
	12H	28.7	29.4	29.4	30.0	30.7	28.5	29.1	29.1	29.8	30.4
12H	4H	26.8	27.6	27.4	28.2	28.7	27.2	28.0	27.8	28.6	29.2
	6H	28.0	28.8	28.6	29.4	30.0	28.2	28.9	28.8	29.5	30.2
	8H	28.4	29.1	29.1	29.7	30.4	28.4	29.1	29.1	29.7	30.4
variation of observer position											
S =	1.0H	+0.1/ -0.1				+0.1/ -0.1					
	1.5H	+0.2/ -0.3				+0.3/ -0.3					
	2.0H	+0.3/ -0.5				+0.6/ -0.7					
standard-table		BK06					BK06				
correction for luminaire		10.9					11.3				
correct glare indices for a total flux of 8015lm											

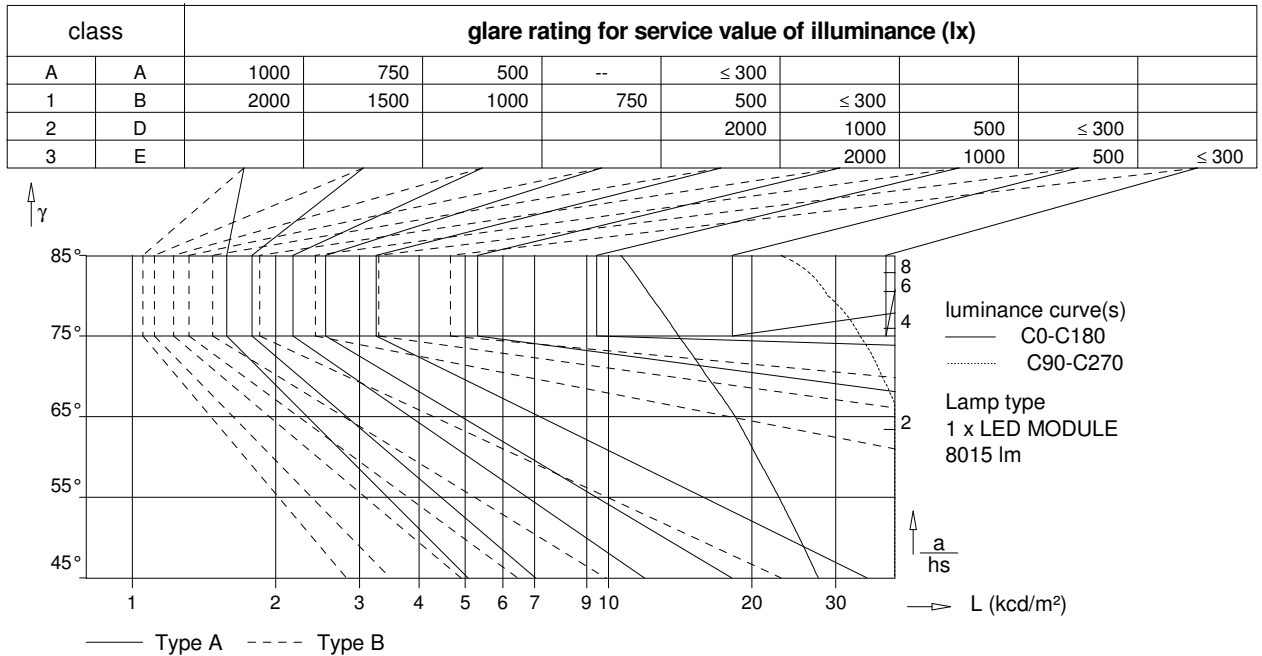


Table of intensities

gamma	C 0	C 90	C 180	C 270
45°	27567.6	49899.3	27567.6	49899.3
50°	25142.9	48027.5	25142.9	48027.5
55°	22782.1	45796.9	22782.1	45796.9
60°	20497.2	43384.9	20497.2	43384.9
65°	18456.5	40869.7	18456.5	40869.7
70°	16083.1	37522.0	16083.1	37522.0
75°	14026.0	33758.9	14026.0	33758.9
80°	12227.6	28866.5	12227.6	28866.5
85°	10616.3	23004.6	10616.3	23004.6

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	56	64	71	76	83	88	92	96	99
70	30	20	49	56	64	69	77	82	86	92	95
70	10	20	43	51	58	64	72	77	82	88	92
50	50	20	54	61	68	73	79	84	87	91	94
50	30	20	47	55	62	67	74	79	82	87	91
50	10	20	42	49	57	62	69	74	78	84	88
30	50	20	52	59	65	69	75	79	82	86	89
30	30	20	46	53	60	64	71	75	79	83	86
30	10	20	42	48	55	60	67	72	75	80	84
0	0	0	39	45	52	56	62	67	70	75	78
BZ-class			5	5	5	5	5	5	5	5	5
SHRnom : 1.50						SHRmax : 1.597					

