

filename : MT50-LED-T7-SC-HO.LDT
 meas. number : 2796
 luminaire number : MT50-LED-T7-SC-HO
 date / operator : 06-12-2018

**default lamp type(s)**

no of lamps	lamp type	luminaire lumens	input wattage
1	LED MODULE	8110 lm	58.3 W

dimensions

luminaire		luminous area	
length	: 2020 mm	length	: 1960 mm
width	: 50 mm	width	: 50 mm
height	: 50 mm	height	: 25 mm

coordinate system

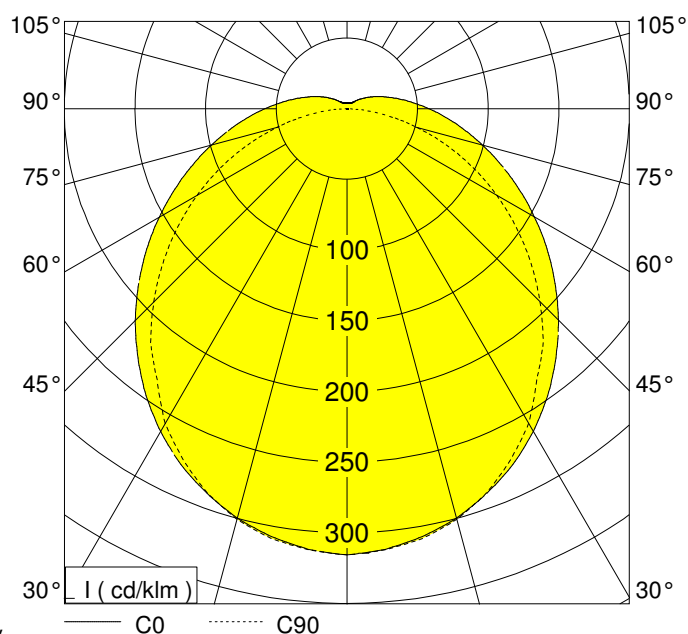
no of planes	: 7	samples / plane	: 37
first c-plane	: 0.0 °	first gamma-angle	: 0.0 °
step angle	: 15.0 °	step angle	: 5.0 °
last c-plane	: 90.0 °	last gamma-angle	: 180.0 °
symmetrics : symmetry to C0 / C90			

performance

light output ratio : 100.0 %
 DFF : 93.3 %
 UFF : 6.7 %

classification

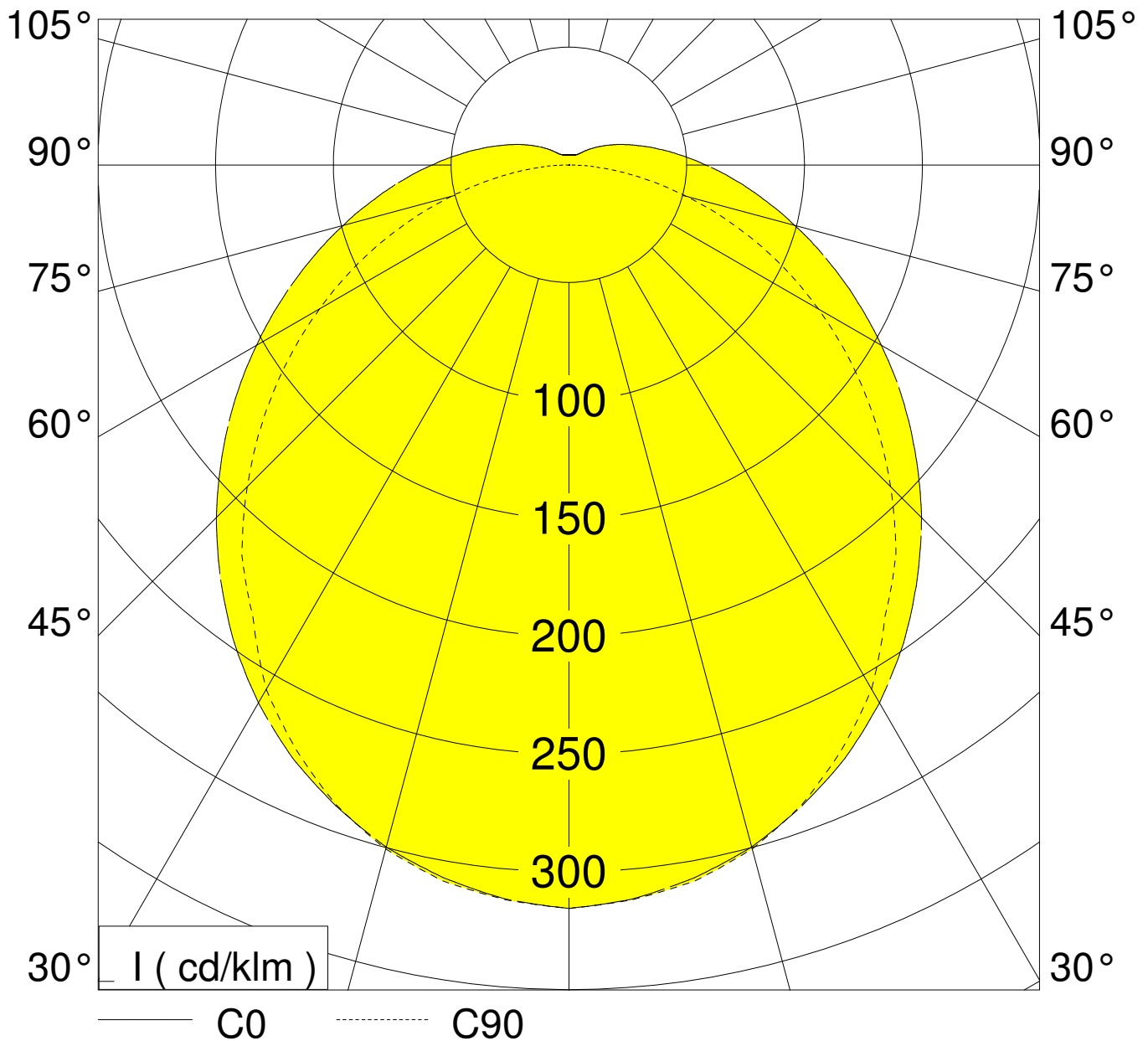
LITG / DIN : A41
 UTE : 0.93E+0.07T
 CIE : 44 74 91 93 100
 BZ : 5 5 5 5 5 5 5 5
 Ambient Temperature : 25 degC
 Input Voltage : 240 V
 Circuit Watts : 58.3W
 Amps (running) : 0.253A
 V.A. : 60.73VA
 Power Factor : 0.96
 CCT : 3930K (measured): 4000K (declared)
 CRI (Ra) : 86
 S/P Ratio : 1.7
 Luminaire Lumens : 8110LLm
 Output Current DC : 340mA
 Output Voltage DC : 156.7V
 Output Power : 53.28W
 Luminaire Lm/circ.Watt : 139 LLm/circ.Watt
 Driver Efficiency : 91.4%
 Driver Details : TRIDONIC LC71W 250-350mA FLEX C1p adv
 87500501



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°	315.30	315.30	315.30	315.30	315.30	315.30	315.30
5.0°	312.50	312.60	312.60	313.10	313.50	313.10	312.70
10.0°	306.90	307.10	307.20	307.70	308.20	308.20	308.30
15.0°	299.50	299.30	299.10	299.20	299.20	299.80	300.30
20.0°	289.20	288.70	288.30	287.90	287.60	288.20	288.80
25.0°	277.50	276.50	275.60	274.40	273.30	273.50	273.70
30.0°	263.40	261.80	260.30	258.20	256.20	256.50	256.80
35.0°	247.50	245.20	243.00	239.70	236.50	235.10	233.80
40.0°	229.80	227.50	225.10	220.70	216.30	216.10	215.80
45.0°	211.50	208.50	205.50	200.00	194.60	193.80	193.00
50.0°	192.10	188.70	185.30	178.50	171.70	170.80	169.80
55.0°	172.70	168.70	164.70	156.80	149.00	147.50	146.10
60.0°	153.00	148.80	144.60	135.60	126.70	124.40	122.20
65.0°	134.10	129.50	125.00	115.00	105.00	101.80	98.50
70.0°	116.00	111.20	106.40	95.50	84.40	79.50	74.60
75.0°	99.20	94.30	89.30	76.90	64.60	58.10	51.60
80.0°	83.80	78.80	73.90	61.20	48.50	39.60	30.70
85.0°	70.10	65.20	60.30	47.40	34.50	23.80	13.20
90.0°	58.00	53.20	48.50	36.20	23.80	11.90	0.00
95.0°	47.60	43.10	38.60	27.50	16.40	8.20	0.00
100.0°	38.80	34.60	30.40	20.90	11.50	5.70	0.00
105.0°	31.30	27.70	24.00	16.20	8.30	4.20	0.00
110.0°	25.30	22.00	18.70	12.50	6.30	3.10	0.00
115.0°	20.20	17.50	14.80	9.90	4.90	2.50	0.00
120.0°	16.00	13.80	11.60	7.80	4.10	2.10	0.00
125.0°	12.40	10.70	8.90	6.40	3.80	1.90	0.00
130.0°	9.60	8.20	6.80	3.40	0.00	0.00	0.00
135.0°	7.30	6.70	6.10	3.10	0.00	0.00	0.00
140.0°	5.90	5.70	5.60	2.80	0.00	0.00	0.00
145.0°	5.40	5.20	5.00	2.50	0.00	0.00	0.00
150.0°	4.90	4.70	4.40	2.20	0.00	0.00	0.00
155.0°	4.70	4.40	4.10	2.00	0.00	0.00	0.00
160.0°	4.60	2.30	0.00	0.00	0.00	0.00	0.00
165.0°	4.60	2.30	0.00	0.00	0.00	0.00	0.00
170.0°	4.20	2.10	0.00	0.00	0.00	0.00	0.00
175.0°	4.20	2.10	0.00	0.00	0.00	0.00	0.00
180.0°	4.20	2.10	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	23.1	24.6	23.5	24.9	25.2	23.9	25.4	24.3	25.7	26.0
	3H	24.2	25.4	24.6	25.7	26.0	25.0	26.2	25.3	26.5	26.8
	4H	25.0	26.1	25.4	26.5	26.8	25.6	26.8	26.0	27.1	27.5
	6H	25.6	26.7	26.1	27.1	27.5	26.1	27.2	26.5	27.5	27.9
	8H	26.0	27.1	26.4	27.5	27.9	26.3	27.4	26.7	27.7	28.1
	12H	26.3	27.4	26.8	27.8	28.2	26.4	27.5	26.9	27.9	28.3
4H	2H	23.3	24.5	23.7	24.8	25.2	24.0	25.1	24.3	25.5	25.8
	3H	25.2	26.3	25.6	26.7	27.1	25.7	26.8	26.2	27.2	27.6
	4H	26.2	27.2	26.6	27.6	28.1	26.5	27.6	27.0	28.0	28.5
	6H	26.8	27.7	27.3	28.1	28.6	26.9	27.8	27.4	28.2	28.7
	8H	27.2	28.0	27.7	28.5	29.0	27.2	28.0	27.7	28.5	29.0
	12H	27.7	28.5	28.3	29.1	29.7	27.5	28.3	28.0	28.8	29.4
8H	4H	26.3	27.1	26.8	27.6	28.1	26.6	27.5	27.1	27.9	28.5
	6H	27.6	28.3	28.1	28.9	29.5	27.6	28.4	28.2	28.9	29.6
	8H	28.2	28.9	28.8	29.5	30.2	28.0	28.7	28.6	29.3	30.0
	12H	28.6	29.2	29.2	29.8	30.5	28.1	28.7	28.7	29.4	30.1
12H	4H	26.5	27.3	27.0	27.8	28.4	26.8	27.6	27.4	28.2	28.8
	6H	27.7	28.5	28.4	29.1	29.8	27.8	28.5	28.4	29.1	29.8
	8H	28.2	28.8	28.9	29.5	30.2	28.0	28.6	28.7	29.3	30.0
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				+0.7/ -0.7					
standard-table		BK07					BK06				
correction for luminaire		11.1					10.9				
correct glare indices for a total flux of 8110lm											

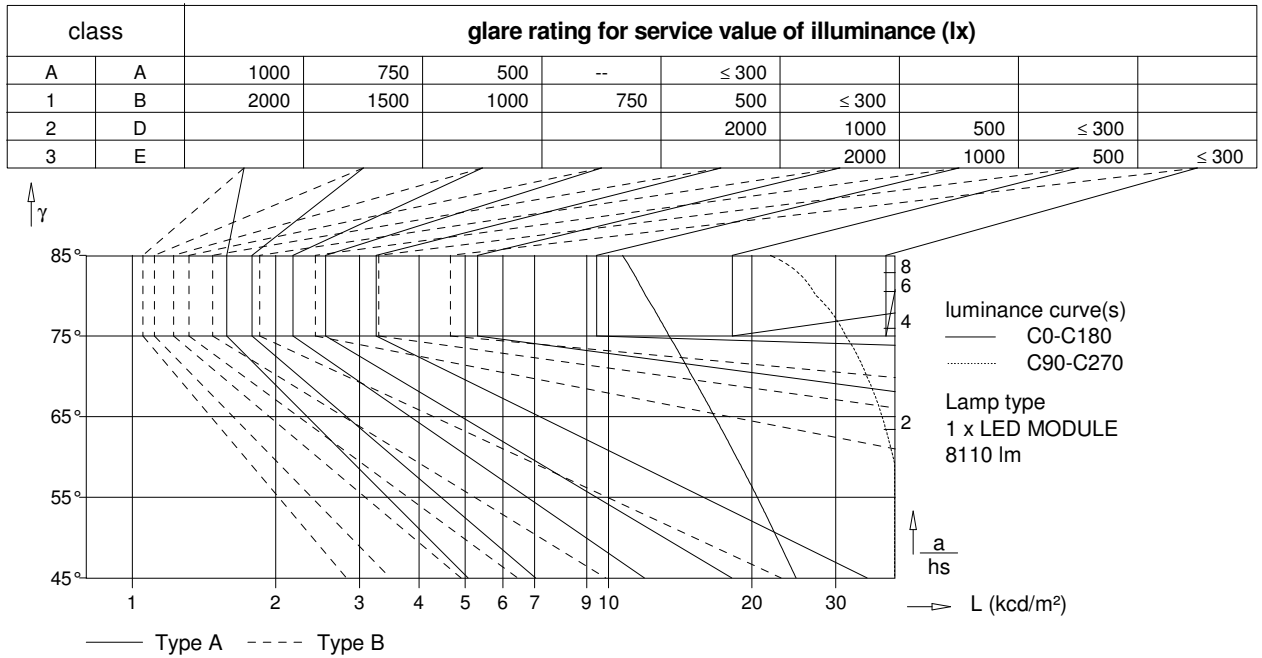


Table of intensities

gamma	C 0	C 90	C 180	C 270
45°	24752.6	44605.9	24752.6	44605.9
50°	22568.0	43066.8	22568.0	43066.8
55°	20523.5	41404.1	20523.5	41404.1
60°	18537.8	39576.4	18537.8	39576.4
65°	16701.4	37548.5	16701.4	37548.5
70°	14979.3	34878.1	14979.3	34878.1
75°	13405.7	31497.9	13405.7	31497.9
80°	11972.6	27287.3	11972.6	27287.3
85°	10709.6	21877.5	10709.6	21877.5

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	56	64	71	76	83	88	91	96	99
70	30	20	49	56	64	69	77	82	86	91	95
70	10	20	43	51	58	63	71	77	81	87	91
50	50	20	54	61	68	73	79	83	87	91	94
50	30	20	47	55	62	67	74	78	82	87	90
50	10	20	42	49	56	62	69	74	78	84	87
30	50	20	52	59	65	69	75	79	82	86	88
30	30	20	46	53	59	64	71	75	78	83	86
30	10	20	42	48	55	60	67	72	75	80	83
0	0	0	39	45	51	56	62	67	70	74	77
BZ-class			5	5	5	5	5	5	5	5	5
SHRnom : 1.50						SHRmax : 1.573					

