

filename : MT50-LRD-T4-HO-SC.LDT
 meas. number : 1561
 luminaire number : MT50-LRD-T4-HO-SC
 date / operator : 05-08-2015

**default lamp type(s)**

no of lamps	lamp type	luminaire lumens	input wattage
1	LED MODULE	4060 lm	35.7 W

dimensions

luminaire		luminous area	
length	: 1225 mm	length	: 1165 mm
width	: 53 mm	width	: 50 mm
height	: 53 mm	height	: 50 mm

coordinate system

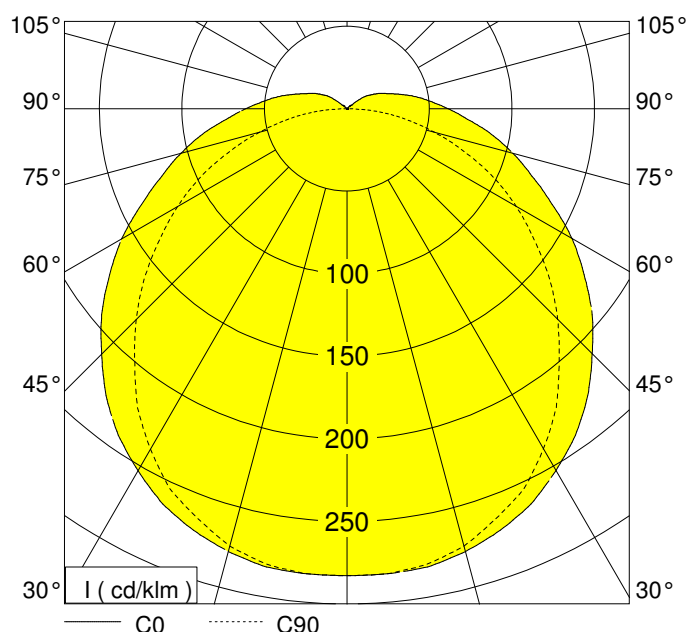
no of planes	: 7	samples / plane	: 37
first c-plane	: 0.0 °	first gamma-angle	: 0.0 °
step angle	: 15.0 °	step angle	: 5.0 °
last c-plane	: 90.0 °	last gamma-angle	: 180.0 °
symmetrics : symmetry to C0 / C90			

performance

light output ratio	: 100.0 %
DFF	: 92.9 %
UFF	: 7.1 %

classification

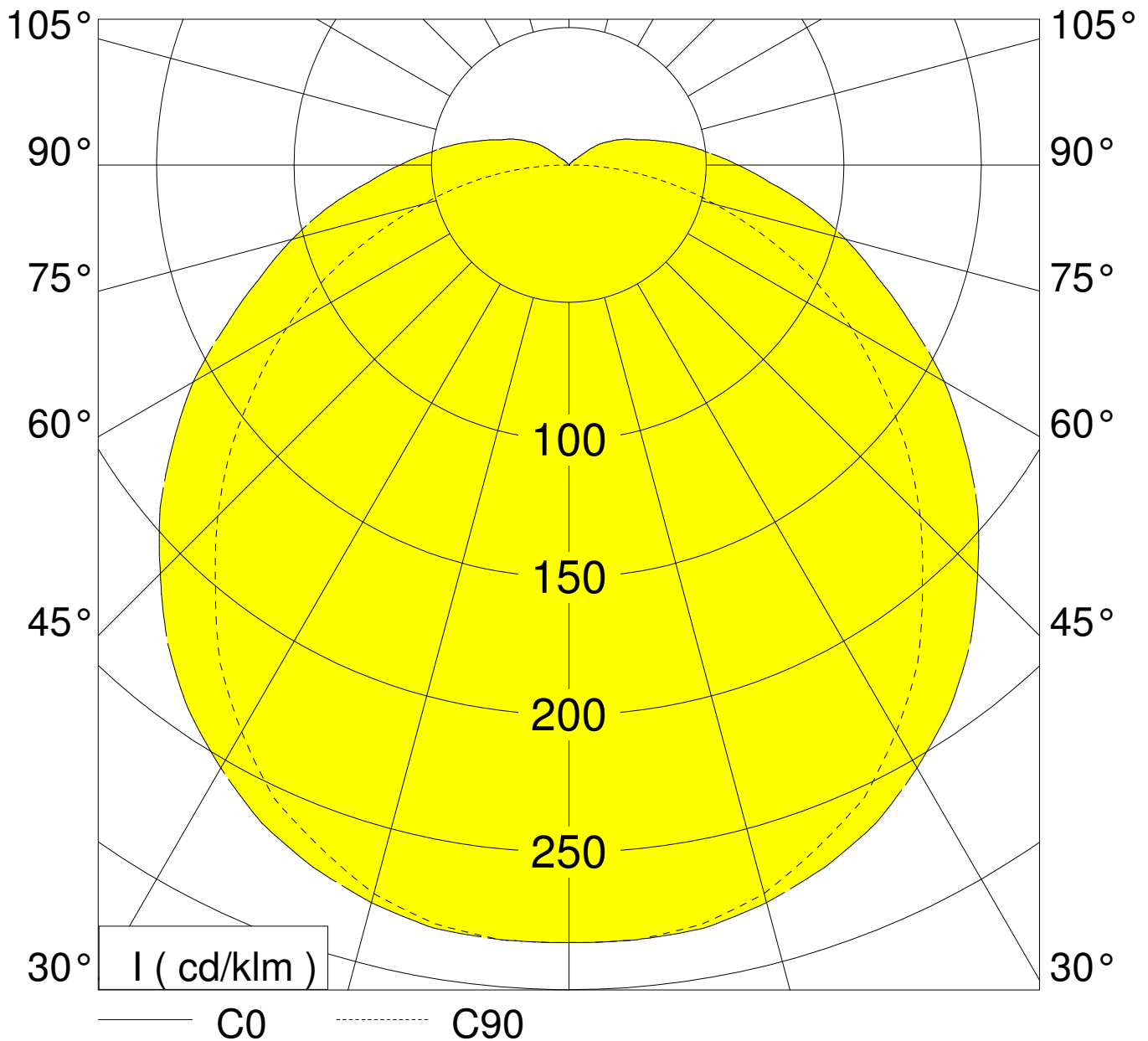
LiTG / DIN	: A31
UTE	: 0.93E+0.07T 0.93G+0.07T
CIE	: 42 71 90 93 100
BZ	: 5 5 5 5 5 5 5 5
Ambient Temperature	: 25 degC
Input Voltage	: 240 V
Circuit Watts	: 35.7W
Amps (running)	: 0.158A
V.A.	: 37.98VA
Power Factor	: 0.94
CCT	: 4198K (measured): 4000K (declared)
Luminaire Lumens	: 4060 Lm
Output current DC	: 250mA
Output Voltage DC	: 127.8V
Output Power	: 31.95W
Luminaire Lm/CircWatt	: 113Lum Lm/circW
Driver Efficiency	: 89%
Driver Details	: TRIDONIC LCI35W 28000198



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°	282.70	282.70	282.70	282.70	282.70	282.70	282.70
5.0°	282.70	282.70	282.70	282.70	282.70	282.70	282.70
10.0°	281.80	281.80	281.80	281.00	280.10	280.10	280.10
15.0°	277.60	277.60	277.60	276.30	275.10	274.60	274.20
20.0°	271.70	271.30	270.80	268.70	266.60	265.30	264.10
25.0°	264.10	263.70	263.20	259.90	256.50	255.20	253.90
30.0°	253.10	252.20	251.40	246.30	241.40	239.70	238.00
35.0°	241.40	239.20	237.10	231.20	225.30	223.20	221.10
40.0°	227.00	224.90	222.80	215.60	208.40	204.20	199.90
45.0°	210.10	208.40	206.70	198.20	189.90	185.20	180.60
50.0°	194.00	191.20	188.20	179.30	170.50	165.40	160.30
55.0°	175.50	172.60	169.60	160.40	151.20	144.90	138.60
60.0°	157.70	153.20	148.60	139.70	130.80	124.70	118.60
65.0°	137.30	134.60	131.80	121.40	110.90	104.40	97.90
70.0°	119.30	117.20	115.00	102.80	90.70	83.10	75.60
75.0°	104.10	100.50	96.90	85.50	74.10	64.50	54.80
80.0°	88.90	85.90	82.90	70.60	58.10	47.00	35.80
85.0°	73.30	70.60	67.90	56.00	44.20	31.10	18.20
90.0°	61.40	58.40	55.50	43.90	32.20	16.10	0.00
95.0°	51.00	47.80	44.60	33.80	23.00	11.50	0.00
100.0°	42.40	38.80	35.20	25.90	16.50	8.20	0.00
105.0°	33.80	30.80	27.90	19.70	11.30	5.70	0.00
110.0°	26.70	24.40	22.10	14.90	7.70	3.80	0.00
115.0°	22.20	19.60	17.00	10.80	4.60	2.30	0.00
120.0°	17.20	15.30	13.50	7.80	2.00	1.00	0.00
125.0°	12.80	10.80	8.80	5.40	1.90	1.00	0.00
130.0°	3.60	2.90	2.10	2.00	1.90	1.00	0.00
135.0°	2.20	2.20	2.10	2.00	1.90	0.90	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	20.2	21.7	20.6	22.0	22.3	20.7	22.2	21.1	22.5	22.9
	3H	21.4	22.6	21.8	22.9	23.2	21.9	23.1	22.2	23.4	23.7
	4H	22.2	23.4	22.6	23.7	24.1	22.6	23.8	23.0	24.1	24.5
	6H	22.9	24.0	23.3	24.4	24.8	23.1	24.2	23.5	24.6	25.0
	8H	23.3	24.4	23.7	24.8	25.2	23.4	24.5	23.8	24.9	25.3
	12H	23.6	24.7	24.0	25.1	25.5	23.6	24.7	24.0	25.1	25.5
4H	2H	20.5	21.7	20.9	22.0	22.4	20.9	22.0	21.3	22.4	22.7
	3H	22.4	23.5	22.8	23.9	24.3	22.7	23.8	23.2	24.2	24.6
	4H	23.4	24.5	23.9	24.9	25.4	23.6	24.7	24.1	25.1	25.6
	6H	24.1	25.0	24.6	25.4	25.9	24.1	25.0	24.6	25.4	25.9
	8H	24.5	25.4	25.0	25.9	26.4	24.4	25.2	24.9	25.7	26.3
	12H	25.0	25.9	25.6	26.4	27.0	24.7	25.6	25.3	26.1	26.7
8H	4H	23.6	24.4	24.1	24.9	25.4	23.8	24.6	24.3	25.1	25.6
	6H	24.9	25.7	25.5	26.3	26.9	24.8	25.6	25.4	26.2	26.9
	8H	25.5	26.3	26.2	26.9	27.6	25.3	26.1	25.9	26.7	27.4
	12H	26.0	26.6	26.6	27.2	28.0	25.5	26.2	26.2	26.8	27.5
12H	4H	23.8	24.6	24.3	25.1	25.8	24.0	24.8	24.5	25.3	25.9
	6H	25.1	25.9	25.7	26.5	27.2	25.1	25.8	25.7	26.4	27.1
	8H	25.6	26.3	26.3	26.9	27.6	25.4	26.0	26.0	26.7	27.4
variation of observer position											
S =	1.0H	+0.1/ -0.1				+0.1/ -0.1					
	1.5H	+0.2/ -0.3				+0.2/ -0.2					
	2.0H	+0.3/ -0.5				+0.5/ -0.5					
standard-table		BK07					BK06				
correction for luminaire		8.4					8.0				
correct glare indices for a total flux of 4060lm											

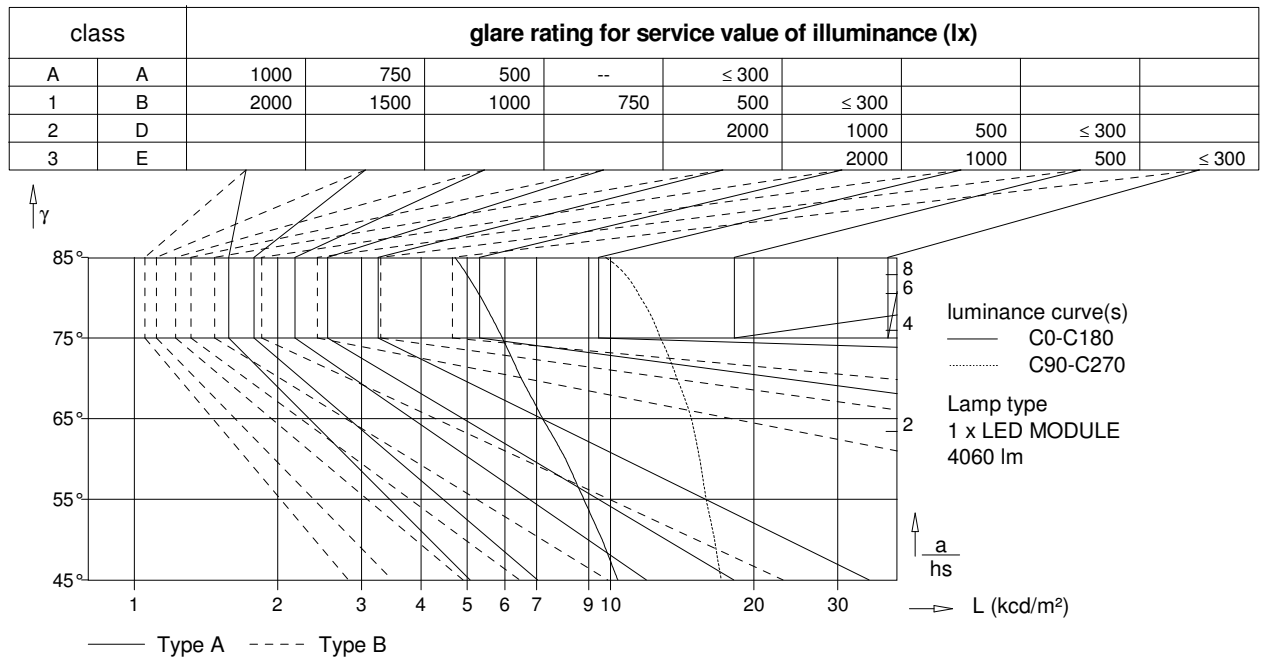


Tabelle der berechneten Leuchtdichten

gamma	C 0	C 90	C 180	C 270
45°	10354.8	17069.2	10354.8	17069.2
50°	9597.8	16536.1	9597.8	16536.1
55°	8783.0	15869.6	8783.0	15869.6
60°	8046.4	15388.8	8046.4	15388.8
65°	7201.1	14785.2	7201.1	14785.2
70°	6487.5	13781.3	6487.5	13781.3
75°	5924.3	12720.1	5924.3	12720.1
80°	5348.8	11556.6	5348.8	11556.6
85°	4715.9	9764.6	4715.9	9764.6

alle Werte 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	54	62	70	75	82	87	90	95	98
70	30	20	47	54	62	67	75	80	85	90	94
70	10	20	41	48	56	61	69	75	80	86	90
50	50	20	52	60	66	71	77	82	85	90	92
50	30	20	45	53	60	65	72	77	81	86	89
50	10	20	40	47	54	60	67	72	76	82	86
30	50	20	50	57	63	67	74	78	81	85	87
30	30	20	44	51	58	62	69	73	77	81	85
30	10	20	39	46	53	58	65	70	73	79	82
0	0	0	37	43	49	54	60	65	68	73	76
BZ-class			5	5	5	5	5	5	5	5	5
SHRnom : 1.50						SHRmax : 1.649					

