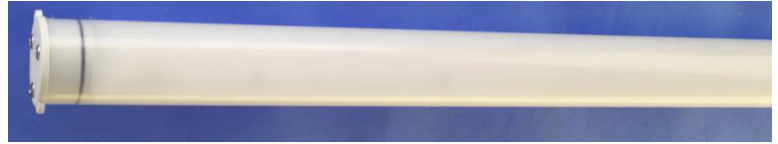


filename : MT50 LED T3 SC HO 4000K.LDT
 meas. number : 2001
 luminaire number : MT50 LED T3 SC HO 4000K
 date / operator : 12-08-2016

**default lamp type(s)**

no of lamps	lamp type	luminaire lumens	input wattage
1	LED MODULE	3205 lm	27.4 W

dimensions

luminaire		luminous area	
length	: 925 mm	length	: 860 mm
width	: 50 mm	width	: 50 mm
height	: 50 mm	height	: 25 mm

coordinate system

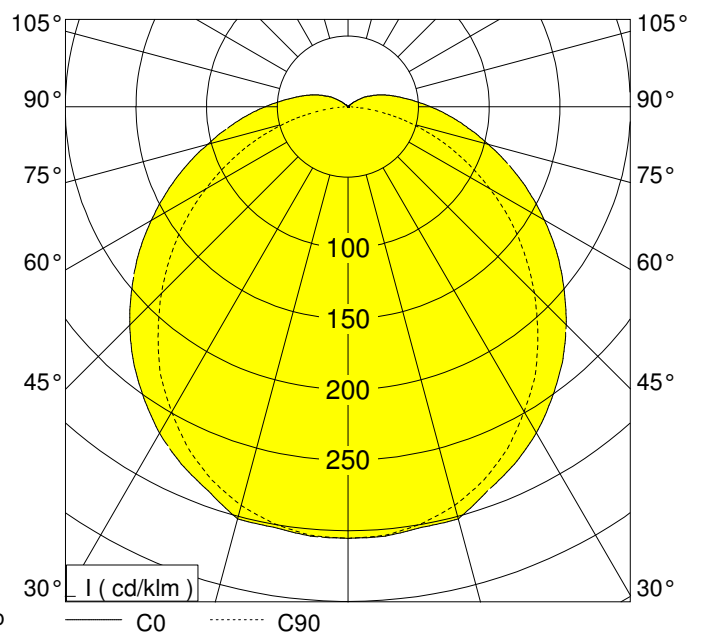
no of planes	: 7	samples / plane	: 37
first c-plane	: 0.0 °	first gamma-angle	: 0.0 °
step angle	: 15.0 °	step angle	: 5.0 °
last c-plane	: 90.0 °	last gamma-angle	: 180.0 °
symmetrics : symmetry to C0 / C90			

performance

light output ratio : 100.0 %
 DFF : 94.3 %
 UFF : 5.7 %

classification

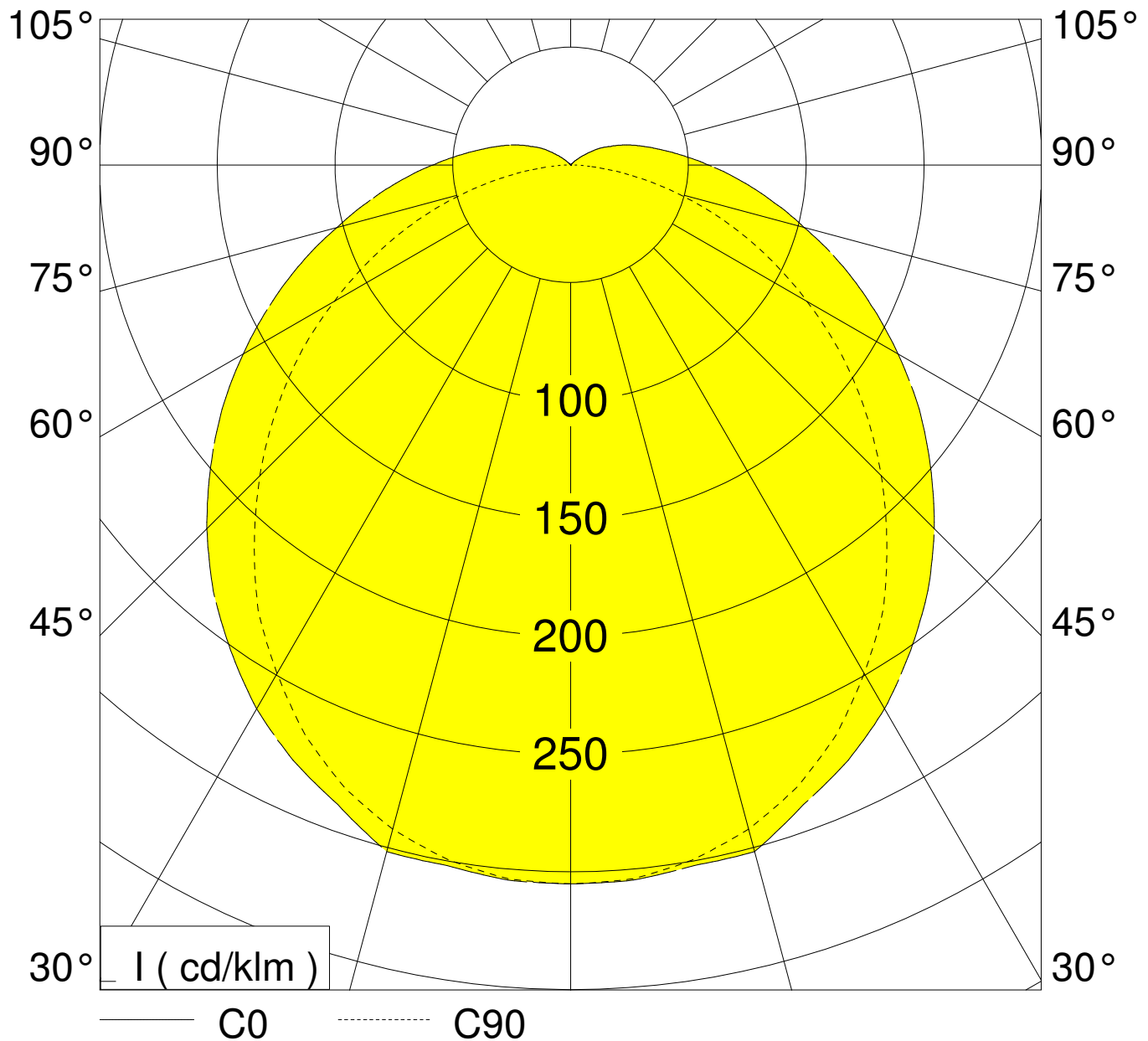
LiTG / DIN : A31
 UTE : 0.94E+0.06T 0.94G+0.06T
 CIE : 44 73 91 94 100
 BZ : 5 5 5 5 5 5 5 5
 Ambient Temperature : 25 degC
 Input Voltage : 240 V
 Circuit Watts : 27.4W
 Amps (running) : 0.125A
 V.A. : 30.11VA
 Power Factor : 0.91
 CCT : 3919K (measured): 4000K (declared)
 CRI (Ra) : 85
 Luminaire Lumens : 3205 LLm
 Output Current DC : 250mA
 Output Voltage DC : 96.6V
 Output Power : 24.15W
 Luminaire Lm/circ.Watt : 117 Lm/circ.Watt
 Driver Efficiency : 88
 Driver Details : TRIDONIC LC1 35W 150-400mA TOP Ip 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°	304.90	304.90	304.90	304.90	304.90	304.90	304.90
5.0°	304.50	304.60	304.60	304.30	303.90	303.90	303.90
10.0°	301.70	301.50	301.40	300.70	300.10	299.60	299.20
15.0°	301.50	298.60	295.60	294.40	293.10	292.30	291.60
20.0°	288.70	288.20	287.80	285.60	283.40	282.10	280.80
25.0°	278.60	277.70	276.80	273.70	270.60	268.60	266.60
30.0°	266.40	264.60	262.90	258.50	254.20	251.60	249.00
35.0°	251.40	249.50	247.60	242.10	236.50	233.70	231.00
40.0°	235.80	233.30	230.80	223.80	216.90	212.80	208.70
45.0°	218.20	215.20	212.30	203.90	195.40	190.90	186.40
50.0°	199.30	196.00	192.80	183.70	174.70	169.10	163.50
55.0°	180.50	176.80	173.10	162.60	152.10	146.20	140.30
60.0°	160.40	156.40	152.40	141.10	129.80	122.90	115.80
65.0°	140.70	136.60	132.40	119.90	107.30	99.90	92.40
70.0°	121.60	117.00	112.40	99.60	86.80	78.20	69.50
75.0°	102.60	98.40	94.10	81.00	68.00	57.60	47.20
80.0°	86.30	82.20	78.00	63.70	49.50	38.20	26.70
85.0°	71.60	67.60	63.60	49.90	36.30	22.70	9.00
90.0°	58.40	54.20	50.00	37.60	25.10	12.50	0.00
95.0°	47.30	43.50	39.80	27.90	16.00	8.00	0.00
100.0°	38.20	34.80	31.50	20.70	10.00	5.00	0.00
105.0°	31.00	27.70	24.40	15.20	5.90	3.00	0.00
110.0°	24.90	21.60	18.40	10.30	2.20	1.10	0.00
115.0°	18.70	16.10	13.40	6.70	0.00	0.00	0.00
120.0°	14.00	10.90	7.90	3.90	0.00	0.00	0.00
125.0°	8.40	6.20	4.00	2.00	0.00	0.00	0.00
130.0°	4.20	2.70	1.10	0.50	0.00	0.00	0.00
135.0°	1.00	0.50	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	21.8	23.3	22.1	23.6	23.9	21.6	23.0	21.9	23.3	23.7
	3H	23.0	24.2	23.4	24.5	24.8	22.5	23.7	22.9	24.0	24.3
	4H	23.9	25.0	24.2	25.4	25.7	23.1	24.3	23.5	24.6	24.9
	6H	24.6	25.7	25.0	26.1	26.4	23.5	24.6	23.9	25.0	25.3
	8H	25.0	26.1	25.4	26.5	26.9	23.7	24.8	24.1	25.1	25.5
	12H	25.4	26.5	25.8	26.9	27.3	23.8	24.9	24.2	25.2	25.6
4H	2H	22.0	23.2	22.4	23.5	23.8	21.8	23.0	22.2	23.3	23.6
	3H	24.0	25.1	24.4	25.5	25.9	23.5	24.6	23.9	25.0	25.4
	4H	25.1	26.2	25.5	26.6	27.0	24.3	25.4	24.8	25.8	26.2
	6H	25.8	26.7	26.3	27.1	27.6	24.7	25.5	25.1	26.0	26.4
	8H	26.3	27.1	26.8	27.6	28.1	24.9	25.7	25.3	26.1	26.6
	12H	26.9	27.7	27.4	28.2	28.7	25.1	25.9	25.7	26.4	27.0
8H	4H	25.2	26.1	25.7	26.5	27.0	24.6	25.4	25.0	25.8	26.3
	6H	26.6	27.4	27.2	27.9	28.5	25.5	26.3	26.1	26.8	27.4
	8H	27.3	28.1	27.9	28.6	29.3	25.9	26.7	26.5	27.2	27.9
	12H	27.8	28.4	28.4	29.0	29.7	26.0	26.6	26.6	27.2	27.9
12H	4H	25.4	26.2	26.0	26.7	27.3	24.8	25.6	25.3	26.1	26.7
	6H	26.8	27.6	27.4	28.1	28.8	25.8	26.5	26.4	27.1	27.8
	8H	27.4	28.0	28.0	28.6	29.2	26.0	26.6	26.6	27.2	27.9
variation of observer position											
S =	1.0H	+0.1/ -0.1				+0.1/ -0.1					
	1.5H	+0.2/ -0.2				+0.2/ -0.3					
	2.0H	+0.3/ -0.4				+0.4/ -0.6					
standard-table		BK08					BK06				
correction for luminaire		10.6					8.6				
correct glare indices for a total flux of 3205lm											

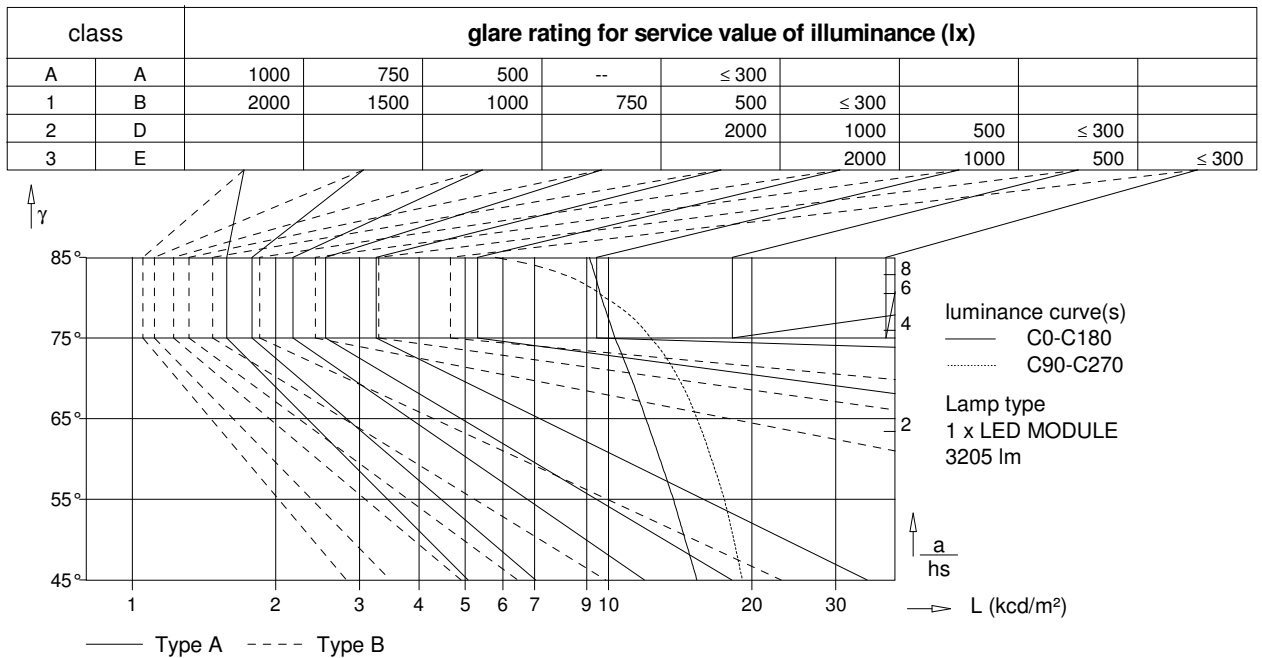


Tabelle der berechneten Leuchtdichten

gamma	C 0	C 90	C 180	C 270
45°	15333.4	19093.1	15333.4	19093.1
50°	14481.0	18323.9	14481.0	18323.9
55°	13684.1	17504.9	13684.1	17504.9
60°	12813.8	16434.8	12813.8	16434.8
65°	11974.6	15339.8	11974.6	15339.8
70°	11163.7	14025.6	11163.7	14025.6
75°	10309.3	12262.3	10309.3	12262.3
80°	9657.4	9838.4	9657.4	9838.4
85°	9118.6	5777.2	9118.6	5777.2

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	56	64	71	76	83	88	92	96	99
70	30	20	48	56	64	69	77	82	86	91	95
70	10	20	43	50	58	63	71	77	81	87	92
50	50	20	54	61	68	73	79	84	87	91	94
50	30	20	47	54	61	66	74	79	82	87	91
50	10	20	42	49	56	61	69	74	78	84	88
30	50	20	52	59	65	69	75	79	82	86	89
30	30	20	46	53	59	64	71	75	79	83	86
30	10	20	41	48	55	60	67	72	75	80	84
0	0	0	39	45	51	56	62	67	70	75	78
BZ-class			5	5	5	5	5	5	5	5	5
SHRnom : 1.50						SHRmax : 1.619					

