

filename : MT50-LED-T2-SC-HO-4000K.LDT  
 meas. number : 2000  
 luminaire number : MT50 LED T2 SC HO 4000K  
 date / operator : 12-08-2016

**default lamp type(s)**

no of lamps	lamp type	luminaire lumens	input wattage
1	LED MODULE	2415 lm	19.4 W

**dimensions**

luminaire		luminous area	
length	: 610 mm	length	: 545 mm
width	: 50 mm	width	: 50 mm
height	: 50 mm	height	: 25 mm

**coordinate system**

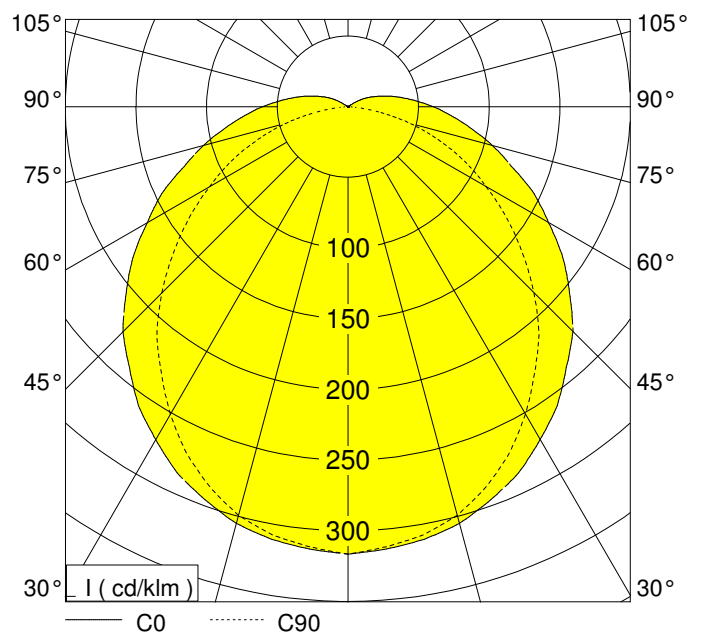
no of planes	: 7	samples / plane	: 37
first c-plane	: 0.0 °	first gamma-angle	: 0.0 °
step angle	: 15.0 °	step angle	: 5.0 °
last c-plane	: 90.0 °	last gamma-angle	: 180.0 °
symmetrics : symmetry to C0 / C90			

**performance**

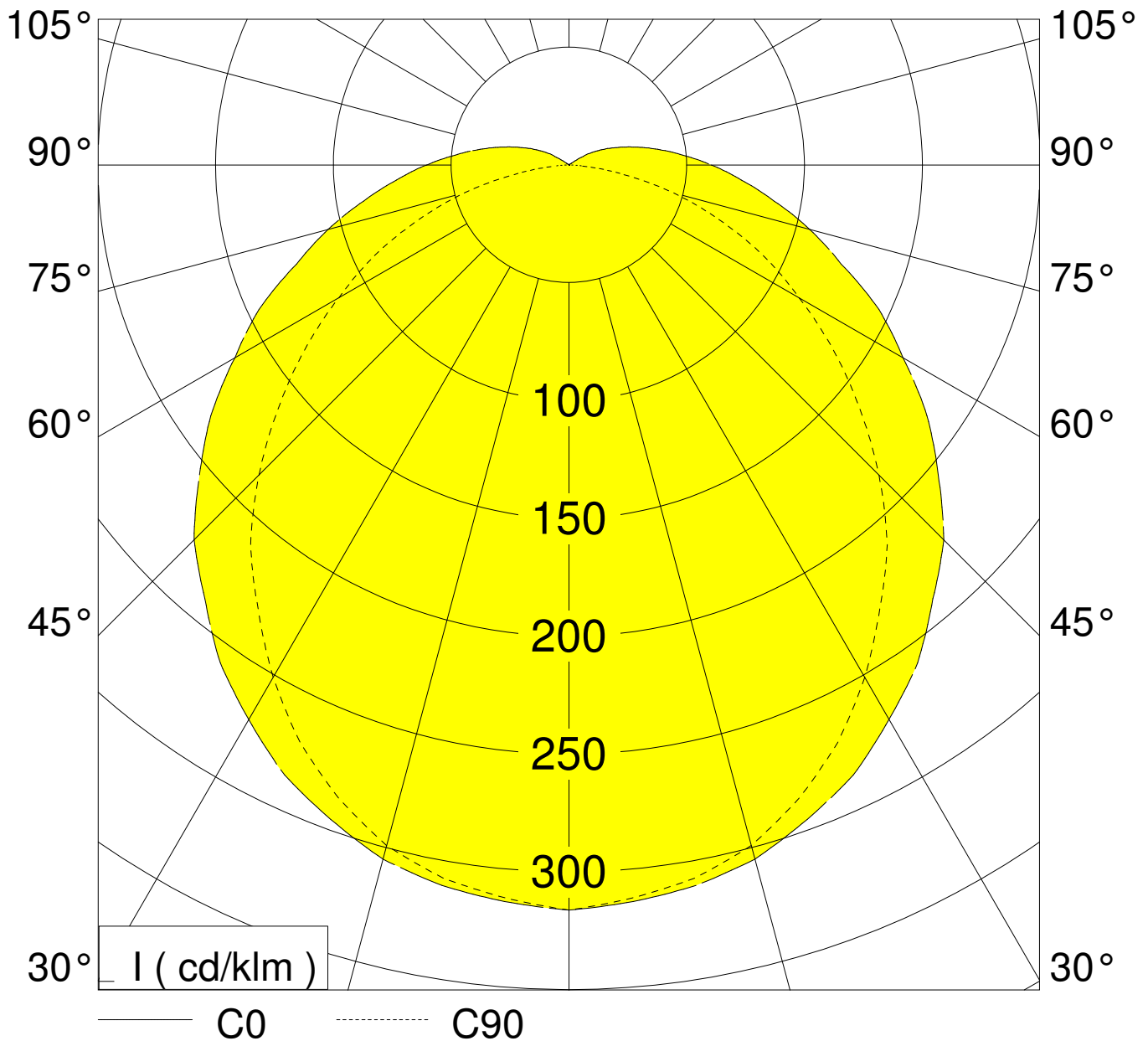
light output ratio	: 100.0 %
DFF	: 95.4 %
UFF	: 4.6 %

**classification**

LiTG / DIN	: A31
UTE	: 0.95E+0.05T
CIE	: 44 74 91 95 100
BZ	: 5 5 5 5 5 5 5 5
Ambient Temperature	: 25 degC
Input Voltage	: 240 V
Circuit Watts	: 19.4W
Amps (running)	: 0.94A
V.A.	: 22.56VA
Power Factor	: 0.86
CCT	: 3917K (measured): 4000K (declared)
CRI (Ra)	: 85
Luminaire Lumens	: 2410 LLm
Output Current DC	: 250mA
Output Voltage DC	: 64.3V
Output Power	: 16.08W
Luminaire Lm/circ.Watt	: 124.5 Lm/circ.Watt
Driver Efficiency	: 83%
Driver Details	: TRIDONIC LC1 35W 150-400mA TIO 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°	316.00	316.00	316.00	316.00	316.00	316.00	316.00
5.0°	313.60	314.10	314.60	314.00	313.40	312.70	312.00
10.0°	310.30	310.60	310.80	310.00	309.20	308.10	307.10
15.0°	304.80	304.40	303.90	302.90	301.80	300.30	298.80
20.0°	295.40	294.80	294.20	291.80	289.40	287.50	285.70
25.0°	285.50	284.50	283.40	279.40	275.30	272.70	270.00
30.0°	271.60	269.60	267.70	262.40	256.90	253.90	250.90
35.0°	257.90	255.30	252.80	246.50	240.30	235.10	229.90
40.0°	240.20	237.00	233.70	225.80	217.80	214.00	210.10
45.0°	224.90	223.00	221.00	209.80	198.70	192.40	186.00
50.0°	204.50	200.00	195.50	184.70	173.90	167.50	161.10
55.0°	185.50	181.60	177.70	165.20	152.70	144.80	137.00
60.0°	163.70	158.40	153.10	144.00	134.90	123.90	112.80
65.0°	145.10	140.20	135.30	120.30	105.20	98.10	91.00
70.0°	123.00	117.60	112.10	98.50	84.80	76.30	67.70
75.0°	105.70	100.70	95.70	81.00	66.20	56.10	46.00
80.0°	88.50	83.30	78.00	62.90	47.90	35.80	23.70
85.0°	73.40	68.60	63.80	48.20	32.70	19.20	5.90
90.0°	60.40	55.30	50.20	34.70	19.20	9.60	0.00
95.0°	48.40	43.70	39.10	24.50	9.80	4.90	0.00
100.0°	38.20	33.40	28.50	16.20	4.00	2.00	0.00
105.0°	29.30	25.00	20.70	10.30	0.00	0.00	0.00
110.0°	21.70	17.60	13.60	6.80	0.00	0.00	0.00
115.0°	15.30	12.10	8.90	4.50	0.00	0.00	0.00
120.0°	9.40	4.80	0.20	0.10	0.00	0.00	0.00
125.0°	1.60	0.80	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	22.5	24.0	22.9	24.3	24.6	22.1	23.6	22.4	23.9	24.2
	3H	23.8	24.9	24.1	25.2	25.5	23.0	24.2	23.3	24.5	24.7
	4H	24.6	25.8	24.9	26.1	26.3	23.6	24.7	23.9	25.0	25.3
	6H	25.4	26.5	25.7	26.8	27.1	23.9	25.0	24.3	25.3	25.7
	8H	25.8	26.9	26.1	27.2	27.5	24.0	25.1	24.4	25.5	25.8
	12H	26.1	27.2	26.5	27.6	27.9	24.1	25.2	24.5	25.5	25.9
4H	2H	22.7	23.8	23.0	24.1	24.4	22.3	23.5	22.7	23.8	24.1
	3H	24.7	25.8	25.1	26.2	26.5	24.0	25.1	24.4	25.4	25.8
	4H	25.8	26.9	26.2	27.2	27.6	24.8	25.8	25.2	26.2	26.6
	6H	26.5	27.4	27.0	27.8	28.2	25.0	25.9	25.5	26.3	26.7
	8H	27.0	27.8	27.5	28.3	28.7	25.2	26.0	25.7	26.5	26.9
	12H	27.6	28.4	28.1	28.9	29.4	25.4	26.2	25.9	26.7	27.2
8H	4H	25.9	26.7	26.4	27.2	27.6	25.0	25.8	25.5	26.3	26.7
	6H	27.3	28.1	27.8	28.6	29.2	25.9	26.7	26.4	27.2	27.8
	8H	28.0	28.7	28.6	29.3	29.9	26.2	27.0	26.8	27.5	28.2
	12H	28.5	29.1	29.1	29.7	30.3	26.3	26.9	26.9	27.5	28.1
12H	4H	26.1	26.9	26.6	27.4	27.9	25.2	26.1	25.8	26.5	27.1
	6H	27.5	28.2	28.1	28.8	29.4	26.2	26.9	26.7	27.5	28.1
	8H	28.0	28.7	28.6	29.2	29.9	26.4	27.0	26.9	27.5	28.2
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					BK05				
correction for luminaire		11.3					8.5				
correct glare indices for a total flux of 2415lm											

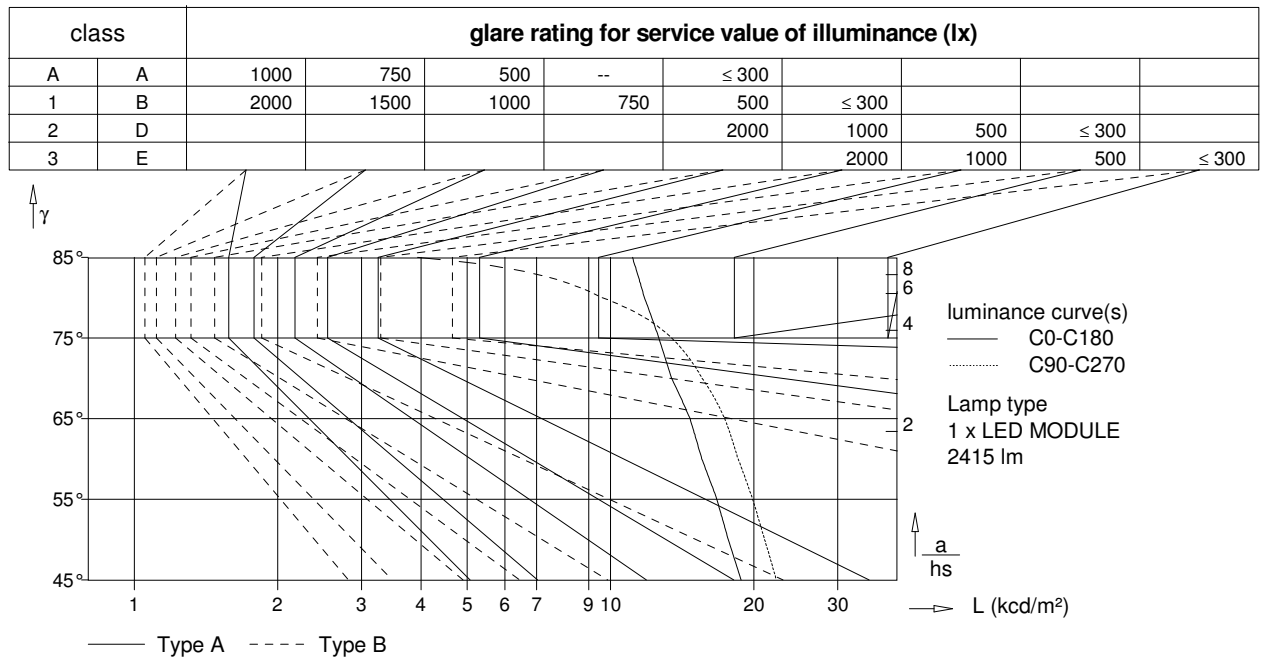


Tabelle der berechneten Leuchtdichten

gamma	C 0	C 90	C 180	C 270
45°	18791.6	22289.5	18791.6	22289.5
50°	17667.6	21060.2	17667.6	21060.2
55°	16721.4	19866.5	16721.4	19866.5
60°	15549.3	18521.9	15549.3	18521.9
65°	14683.4	17373.8	14683.4	17373.8
70°	13426.8	15578.9	13426.8	15578.9
75°	12628.4	13448.8	12628.4	13448.8
80°	11775.7	9598.6	11775.7	9598.6
85°	11114.8	3935.8	11114.8	3935.8

alle Werte in cd/m<sup>2</sup>

<b>utilization factors / TM5</b>											
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	72	77	84	89	92	97	100
70	30	20	49	57	64	69	77	83	87	92	96
70	10	20	43	51	58	64	72	77	82	88	92
50	50	20	54	62	69	73	80	84	87	92	95
50	30	20	48	55	62	67	74	79	83	88	91
50	10	20	43	50	57	62	70	75	79	85	88
30	50	20	53	59	66	70	76	80	83	87	90
30	30	20	46	54	60	65	72	76	80	84	87
30	10	20	42	49	56	61	68	73	76	81	85
0	0	0	39	46	52	57	63	68	71	76	79
BZ-class			5	5	5	5	5	5	5	5	5
SHRnom : 1.50						SHRmax : 1.607					

