

filename : MT70T4-SC-HO-EC.LDT  
 meas. number : 1806  
 luminaire number : MT70T4-SC-HO-EC  
 date / operator : 15-03-2016

**default lamp type(s)**

no of lamps	lamp type	luminaire lumens	input wattage
1	MAINS LED MODULE	4350 lm	40.2 W
1	EMERGENCY LED MODULE	530 lm	40.2 W

**dimensions**

luminaire	length	width	height	luminous area	length	width	height
	1225 mm	70 mm	70 mm		1170 mm	70 mm	70 mm

**coordinate system**

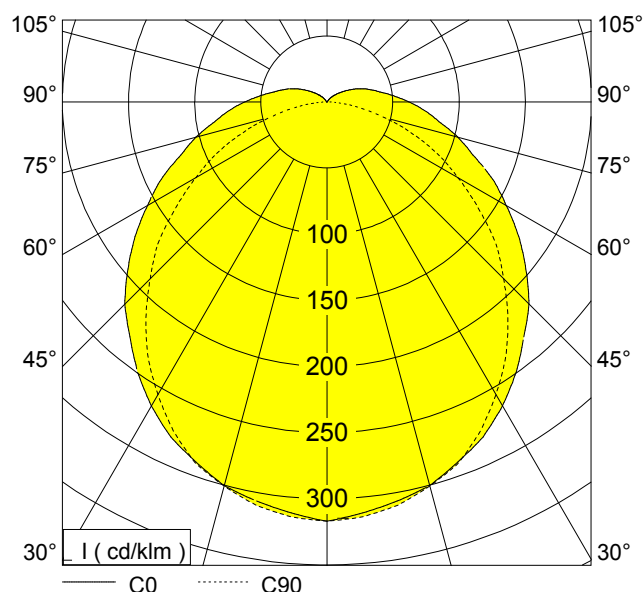
no of planes	7	samples / plane	37
first c-plane	0.0 °	first gamma-angle	0.0 °
step angle	15.0 °	step angle	5.0 °
last c-plane	90.0 °	last gamma-angle	180.0 °
symmetrics	: symmetry to C0 / C90		

**performance**

light output ratio	100.0 %
DFF	93.0 %
UFF	7.0 %

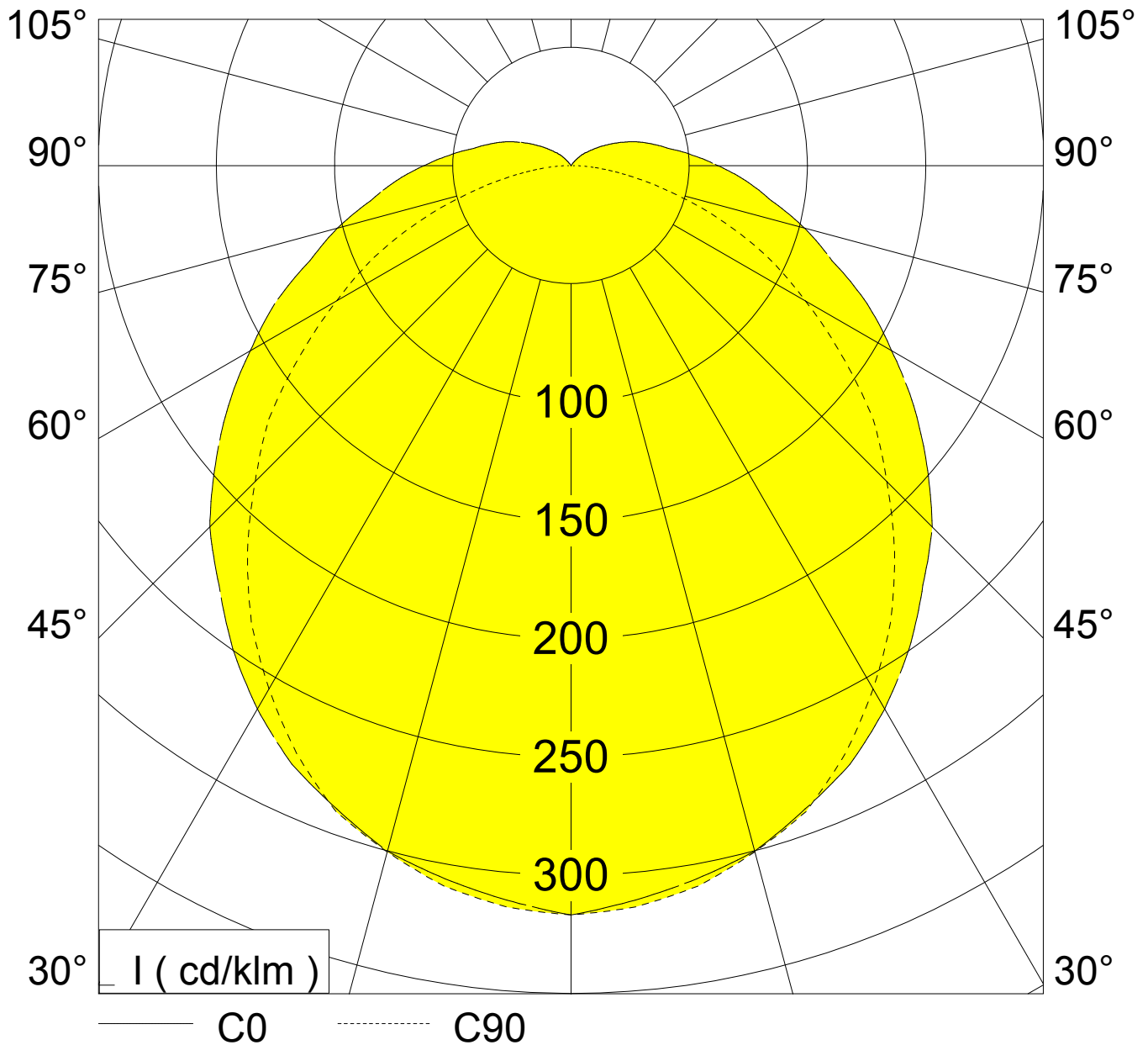
**classification**

LiTG / DIN	A41
UTE	0.93E+0.07T
CIE	44 73 91 93 100
BZ	5 5 5 5 5 5 5 5
Ambient Temperature	25 degC
Input Voltage	240 V
Circuit Watts	40.2W
Amps (running)	0.174A
V.A.	41.88VA
Power Factor	0.94
CCT	4040K (measured) : 4000K (declared)
CRI (Ra)	85
Mains Luminaire Lumens	4350 LLm
EM Luminaire Lumens	530 LLm
Luminaire Lm/CircWatt	108 Lum Lm/circW
Driver Details	TRIDONIC LCI 35W 150-400mA 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°	316.60	316.60	316.60	316.60	316.60	316.60	316.60
5.0°	311.50	312.20	312.90	313.30	313.70	314.10	314.40
10.0°	306.00	306.40	306.80	307.20	307.60	308.30	309.10
15.0°	299.90	299.40	298.90	298.70	298.50	299.30	300.20
20.0°	289.30	289.40	289.60	288.10	286.50	288.50	290.40
25.0°	279.10	277.40	275.60	273.70	271.70	273.00	274.20
30.0°	265.10	262.70	260.30	257.80	255.30	255.30	255.30
35.0°	249.20	245.00	240.90	237.30	233.70	234.60	235.50
40.0°	231.40	227.00	222.70	218.10	213.60	213.10	212.70
45.0°	215.90	210.80	205.70	197.80	190.00	189.30	188.70
50.0°	196.20	191.70	187.10	176.90	166.70	166.70	166.70
55.0°	176.80	171.10	165.40	156.20	146.90	143.20	139.50
60.0°	156.50	150.10	143.60	133.10	122.60	118.40	114.30
65.0°	138.20	131.50	124.90	114.00	103.10	97.50	91.90
70.0°	117.40	112.50	107.70	95.80	84.00	75.70	67.50
75.0°	102.20	97.30	92.30	78.40	64.50	54.20	43.90
80.0°	86.10	80.30	74.40	62.40	50.30	37.50	24.80
85.0°	74.20	67.60	61.00	50.00	39.00	24.70	10.30
90.0°	62.00	56.00	49.90	39.20	28.60	15.00	1.40
95.0°	51.40	46.60	41.70	31.20	20.70	10.30	0.00
100.0°	41.90	37.50	33.00	23.80	14.60	7.30	0.00
105.0°	35.40	31.40	27.40	18.80	10.20	5.10	0.00
110.0°	29.40	25.30	21.10	14.20	7.30	3.60	0.00
115.0°	23.20	19.50	15.70	10.50	5.20	2.60	0.00
120.0°	17.60	14.90	12.30	7.70	3.00	1.50	0.00
125.0°	12.80	11.00	9.30	4.60	0.00	0.00	0.00
130.0°	8.90	7.60	6.20	3.10	0.00	0.00	0.00
135.0°	6.40	4.90	3.40	1.70	0.00	0.00	0.00
140.0°	2.90	1.50	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	19.2	20.6	19.5	20.9	21.3	19.6	21.0	19.9	21.4	21.7
	3H	20.3	21.5	20.7	21.8	22.1	20.5	21.7	20.9	22.0	22.3
	4H	21.1	22.2	21.5	22.6	22.9	21.1	22.2	21.5	22.6	22.9
	6H	21.8	22.9	22.2	23.3	23.6	21.4	22.5	21.8	22.9	23.3
	8H	22.2	23.2	22.6	23.6	24.0	21.6	22.7	22.0	23.1	23.5
	12H	22.5	23.6	22.9	24.0	24.4	21.7	22.8	22.1	23.2	23.6
4H	2H	19.4	20.5	19.8	20.9	21.2	19.7	20.8	20.1	21.2	21.5
	3H	21.3	22.3	21.7	22.7	23.2	21.4	22.4	21.8	22.8	23.3
	4H	22.3	23.3	22.7	23.8	24.2	22.1	23.2	22.6	23.6	24.0
	6H	22.9	23.8	23.4	24.2	24.7	22.4	23.3	22.9	23.7	24.2
	8H	23.3	24.2	23.9	24.7	25.2	22.6	23.4	23.1	23.9	24.4
	12H	23.9	24.7	24.5	25.2	25.8	22.8	23.6	23.4	24.2	24.8
8H	4H	22.4	23.2	22.9	23.7	24.2	22.2	23.1	22.7	23.5	24.1
	6H	23.7	24.5	24.3	25.0	25.7	23.1	23.9	23.7	24.5	25.1
	8H	24.3	25.1	24.9	25.7	26.4	23.5	24.2	24.1	24.9	25.5
	12H	24.7	25.4	25.4	26.0	26.7	23.6	24.2	24.2	24.9	25.6
12H	4H	22.6	23.4	23.1	23.9	24.5	22.4	23.2	23.0	23.8	24.4
	6H	23.9	24.6	24.5	25.2	25.9	23.3	24.1	24.0	24.7	25.4
	8H	24.3	25.0	25.0	25.6	26.3	23.6	24.2	24.2	24.8	25.5
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/                      -0.6					
standard-table		BK07					BK05				
correction for luminaire		7.2					5.9				
correct glare indices for a total flux of 4350lm											

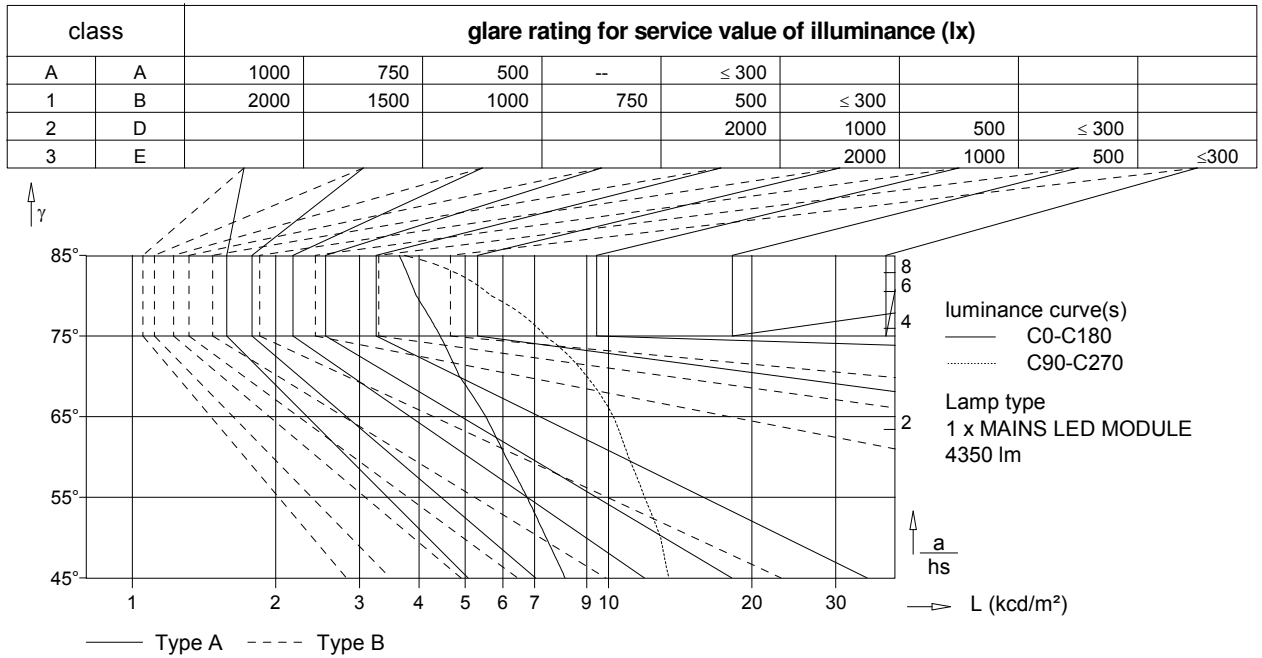


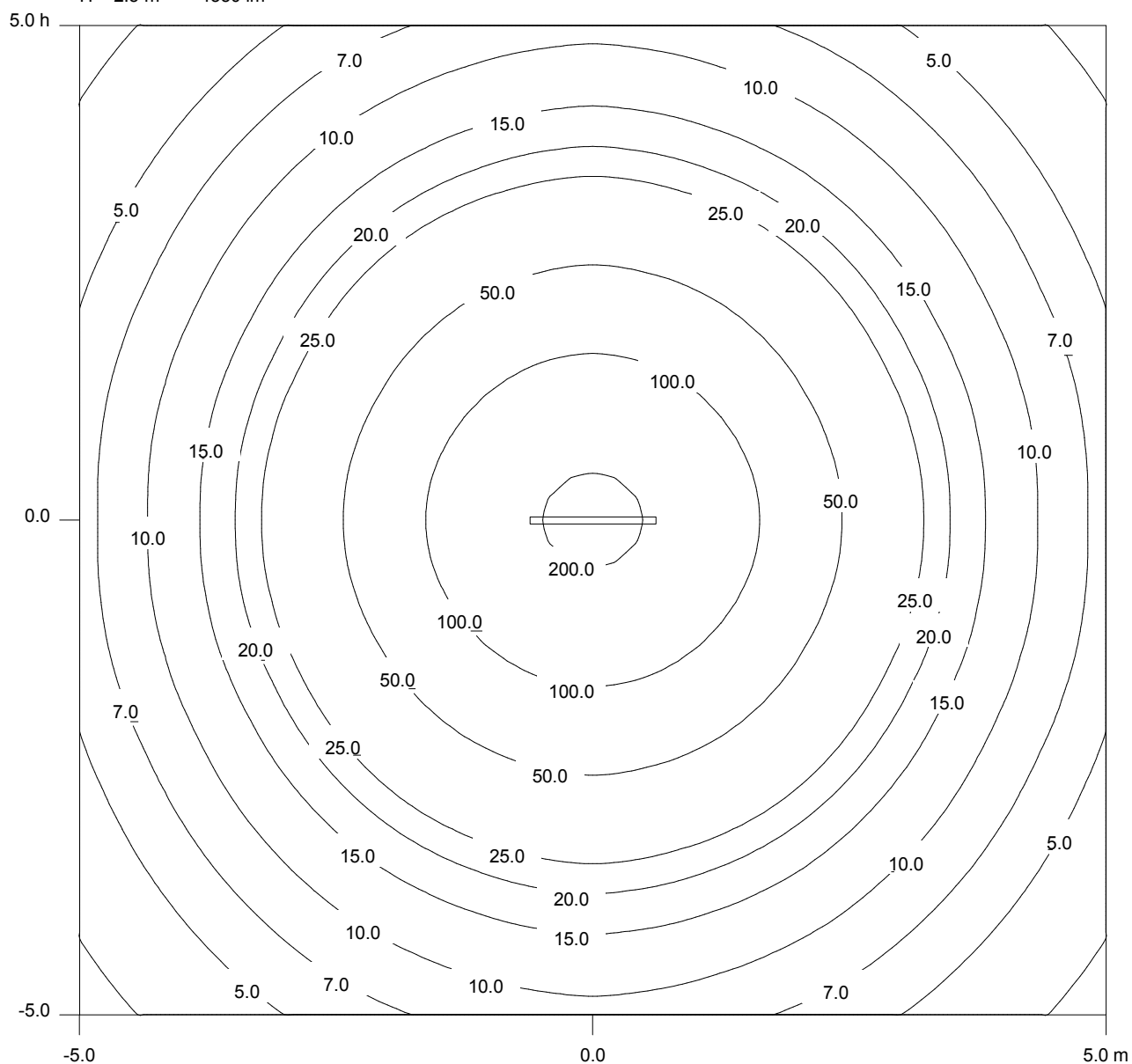
Tabelle der berechneten Leuchtdichten

gamma	C 0	C 90	C 180	C 270
45°	8108.5	13373.8	8108.5	13373.8
50°	7396.8	12857.7	7396.8	12857.7
55°	6742.5	11900.9	6742.5	11900.9
60°	6085.0	11001.7	6085.0	11001.7
65°	5523.5	10236.4	5523.5	10236.4
70°	4865.0	9002.5	4865.0	9002.5
75°	4432.1	7364.5	4432.1	7364.5
80°	3947.6	5663.8	3947.6	5663.8
85°	3637.8	3727.7	3637.8	3727.7

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	71	76	83	88	91	96	99
70	30	20	49	56	64	69	77	82	86	91	95
70	10	20	43	50	58	63	71	77	81	87	91
50	50	20	54	61	68	72	79	83	86	91	93
50	30	20	47	54	61	66	73	78	82	87	90
50	10	20	42	49	56	61	69	74	78	83	87
30	50	20	52	59	65	69	75	79	82	86	88
30	30	20	46	53	59	64	70	75	78	83	86
30	10	20	42	48	55	60	66	71	75	80	83
0	0	0	39	45	51	56	62	66	69	74	77
BZ-class			5	5	5	5	5	5	5	5	5
SHRnom : 1.50						SHRmax : 1.574					

H = 2.5 m      4350 lm



## EMERGENCY OPERATION

