

filename : MT70-T4-CL-HO-EC.LDT
 meas. number : 1805
 luminaire number : MT70-T4-CL-HO-EC
 date / operator : 15-03-2016

**default lamp type(s)**

no of lamps	lamp type	luminaire lumens	input wattage
1	MAINS LED MODULE	5950 lm	40.2 W
1	EMERGENCY LED MODULE	760 lm	40.2 W

dimensions

luminaire	length	width	height	luminous area	length	width	height
	1225 mm	70 mm	70 mm		1170 mm	70 mm	40 mm

coordinate system

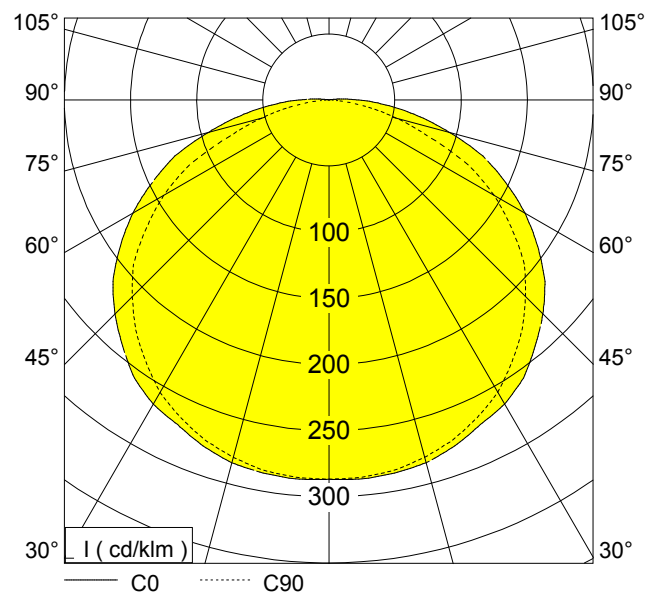
no of planes	7	samples / plane	37
first c-plane	0.0 °	first gamma-angle	0.0 °
step angle	15.0 °	step angle	5.0 °
last c-plane	90.0 °	last gamma-angle	180.0 °
symmetrics	: symmetry to C0 / C90		

performance

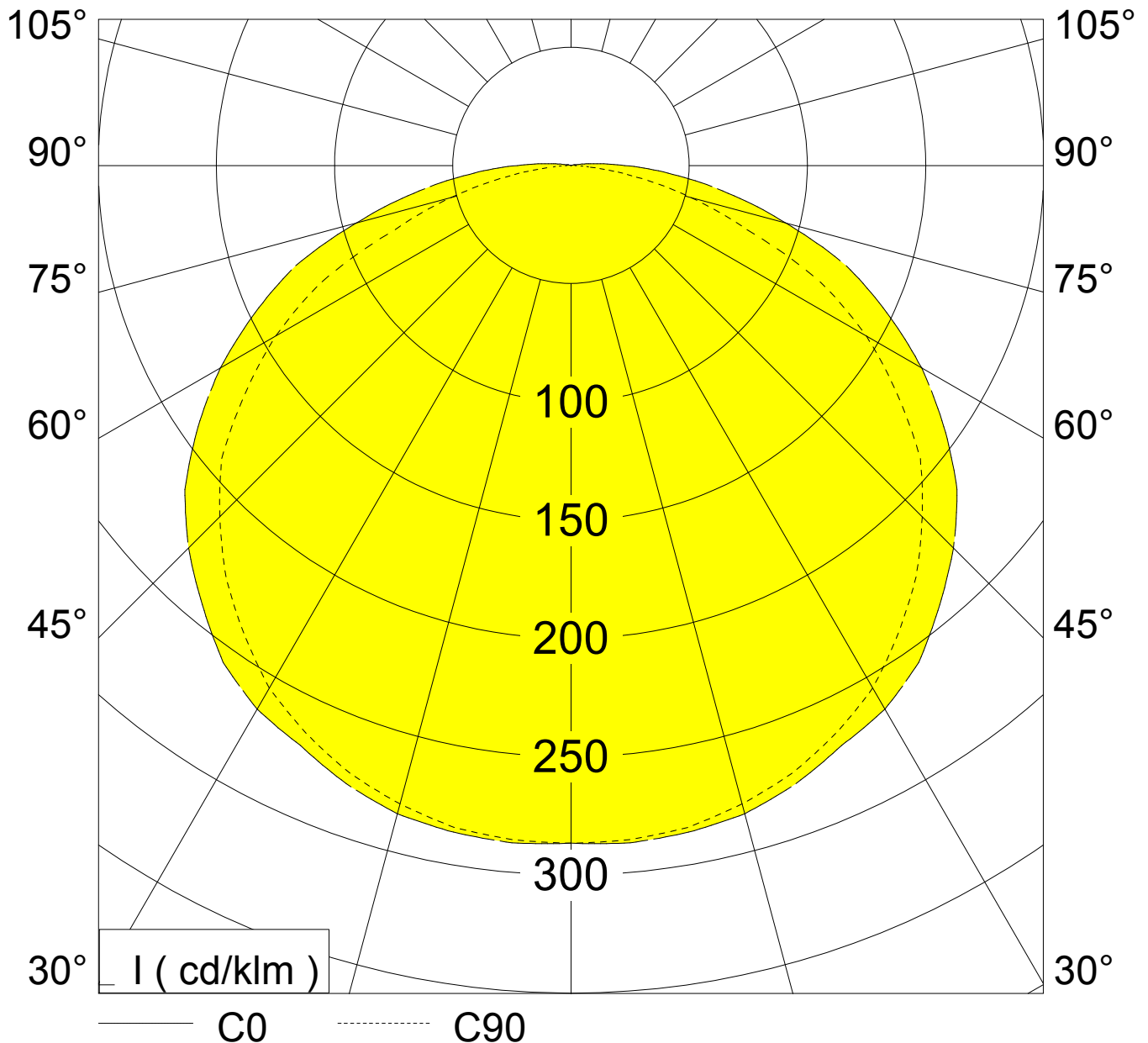
light output ratio	100.0 %
DFF	99.2 %
UFF	0.8 %

classification

LiTG / DIN	A30
UTE	0.99E+0.01T 0.99G+0.01T
CIE	42 73 93 99 100
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	0.96
CCT	4040K (measured): 4000K (declared)
CRI (Ra)	85
Mains Luminaire Lumens	5950 LLm
EM Luminaire Lumens	760 LLm
Luminaire Lm/CircWatt	148 Lum Lm/circW
Driver Details	TRIDONIC LCI 35W 150-400mA



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°	286.40	286.40	286.40	286.40	286.40	286.40	286.40
5.0°	287.30	287.80	288.30	286.20	284.10	285.00	285.90
10.0°	286.10	286.70	287.20	285.00	282.80	283.40	284.00
15.0°	283.60	284.30	285.00	282.00	279.10	279.20	279.30
20.0°	278.00	279.50	281.00	277.90	274.80	274.10	273.30
25.0°	270.50	272.10	273.70	271.00	268.30	266.60	264.80
30.0°	265.30	265.60	266.00	262.20	258.40	256.70	255.00
35.0°	256.30	257.40	258.40	252.50	246.50	243.80	241.20
40.0°	242.40	244.20	246.00	240.10	234.00	230.50	226.90
45.0°	228.60	229.30	230.00	224.90	219.90	214.90	209.90
50.0°	213.00	213.00	213.00	208.60	204.30	198.50	192.70
55.0°	192.40	193.30	194.20	188.40	182.60	175.40	168.20
60.0°	171.10	171.10	171.00	165.00	159.00	151.60	144.10
65.0°	147.30	148.90	150.50	142.50	134.70	125.40	116.20
70.0°	123.80	125.10	126.50	118.00	109.50	94.30	79.10
75.0°	93.90	96.50	99.00	89.60	80.00	66.30	52.60
80.0°	67.50	69.80	72.20	63.80	55.60	41.80	28.10
85.0°	43.30	44.90	46.50	38.80	31.10	19.80	8.30
90.0°	22.60	23.00	23.50	18.20	13.00	6.50	0.00
95.0°	8.20	8.20	8.20	5.60	2.90	1.40	0.00
100.0°	2.10	2.20	2.30	1.90	1.50	0.70	0.00
105.0°	1.30	1.30	1.30	0.70	0.00	0.00	0.00
110.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125.0°	0.00	0.00	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	22.2	23.8	22.5	24.0	24.2	22.7	24.3	22.9	24.5	24.7
	3H	23.2	24.4	23.5	24.6	24.8	23.6	24.8	23.8	25.0	25.2
	4H	23.9	25.1	24.2	25.3	25.5	24.1	25.3	24.4	25.5	25.7
	6H	24.4	25.5	24.7	25.7	26.0	24.4	25.5	24.7	25.8	26.1
	8H	24.6	25.7	24.9	26.0	26.2	24.6	25.7	24.9	25.9	26.2
	12H	24.8	25.9	25.1	26.1	26.4	24.6	25.7	25.0	26.0	26.3
4H	2H	22.4	23.6	22.7	23.8	24.0	22.7	23.9	23.0	24.2	24.4
	3H	24.3	25.4	24.6	25.7	26.0	24.5	25.6	24.9	25.9	26.2
	4H	25.2	26.3	25.6	26.6	26.9	25.3	26.4	25.7	26.7	27.0
	6H	25.6	26.5	26.0	26.8	27.1	25.5	26.4	25.9	26.7	27.1
	8H	25.9	26.7	26.2	27.0	27.4	25.7	26.5	26.1	26.9	27.2
	12H	26.2	27.0	26.6	27.4	27.8	25.9	26.7	26.4	27.1	27.6
8H	4H	25.4	26.2	25.7	26.5	26.9	25.4	26.3	25.8	26.6	27.0
	6H	26.4	27.2	26.9	27.6	28.1	26.3	27.1	26.8	27.5	28.0
	8H	26.8	27.6	27.3	28.1	28.5	26.6	27.4	27.1	27.8	28.3
	12H	27.0	27.6	27.5	28.1	28.6	26.7	27.3	27.1	27.8	28.3
12H	4H	25.6	26.4	26.0	26.8	27.2	25.6	26.5	26.1	26.9	27.3
	6H	26.6	27.4	27.1	27.8	28.3	26.5	27.3	27.0	27.7	28.2
	8H	26.9	27.5	27.4	28.0	28.5	26.7	27.3	27.2	27.8	28.3
variation of observer position											
S =	1.0H	+0.1/		-0.1		+0.1/		-0.1			
	1.5H	+0.2/		-0.3		+0.2/		-0.3			
	2.0H	+0.3/		-0.6		+0.4/		-0.6			
standard-table		BK06					BK05				
correction for luminaire		9.4					8.9				
correct glare indices for a total flux of 5950lm											

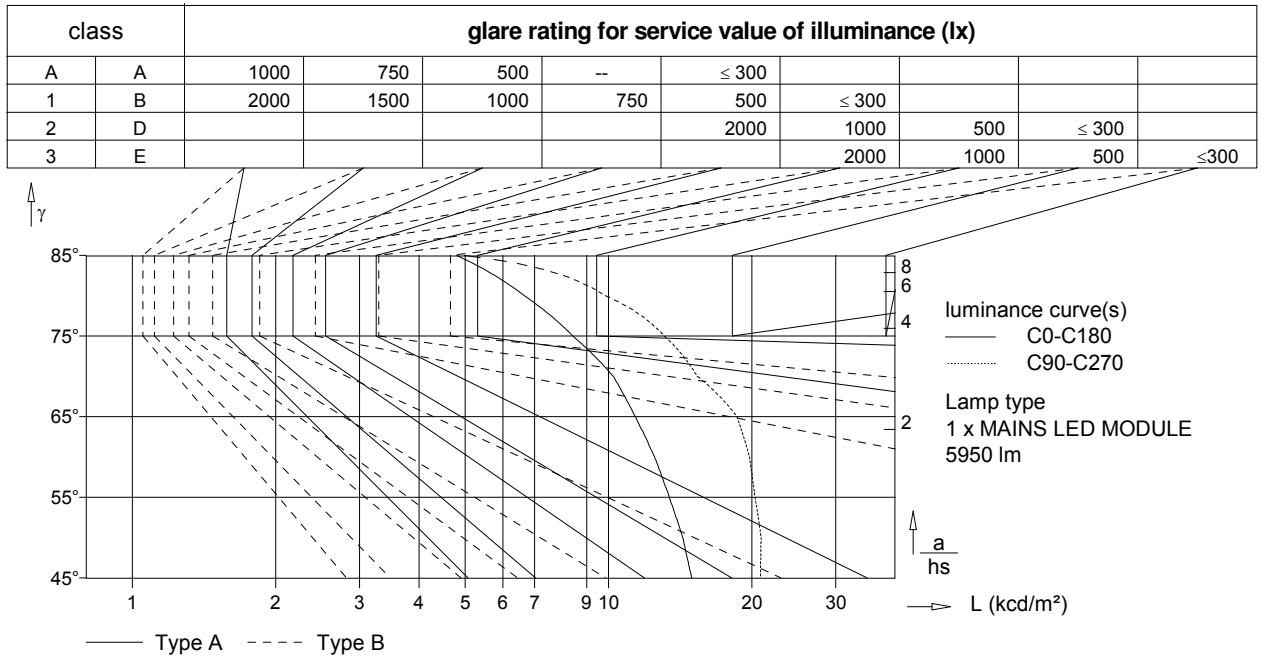


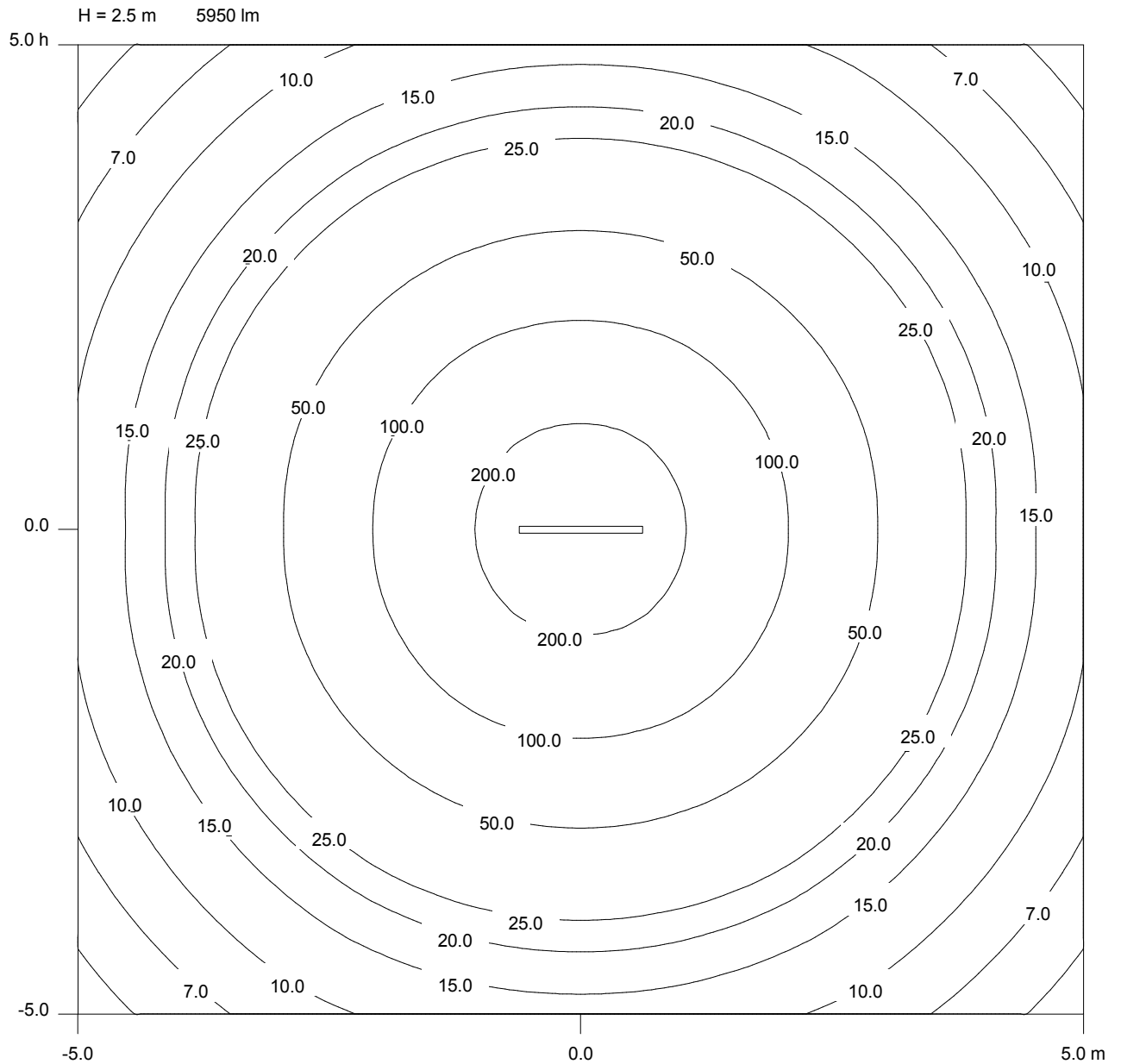
Tabelle der berechneten Leuchtdichten

gamma	C 0	C 90	C 180	C 270
45°	14946.2	20852.6	14946.2	20852.6
50°	14321.1	20926.8	14321.1	20926.8
55°	13418.7	20312.6	13418.7	20312.6
60°	12494.4	19767.1	12494.4	19767.1
65°	11378.2	18610.7	11378.2	18610.7
70°	10232.2	15359.2	10232.2	15359.2
75°	8413.9	13094.0	8413.9	13094.0
80°	6659.3	9847.0	6659.3	9847.0
85°	4792.3	4974.6	4792.3	4974.6

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	55	64	72	77	84	89	93	98	101
70	30	20	47	56	64	69	78	83	88	93	97
70	10	20	42	50	58	64	72	78	83	89	94
50	50	20	54	62	69	74	81	86	89	94	97
50	30	20	47	54	62	68	75	81	85	90	93
50	10	20	41	49	57	62	71	76	81	86	90
30	50	20	52	60	67	71	78	82	86	90	93
30	30	20	46	53	61	66	73	78	82	87	90
30	10	20	41	48	56	61	69	74	78	84	87
0	0	0	39	46	53	58	65	70	74	79	83
BZ-class			5	5	5	5	5	5	5	5	5
SHRnom : 1.50						SHRmax : 1.731					

MAINS OPERATION



H = 2.5 m 760 lm

