

filename : MT70-LED-T5-HO-CL-EC.LDT  
 meas. number : 1823  
 luminaire number : MT70 LED T5 HO CL E/C  
 date / operator : 07-04-2016

**default lamp type(s)**

no of lamps	lamp type	luminaire lumens	input wattage
1	LED MODULE	6130 lm	29.8 W

**dimensions**

luminaire		luminous area	
length	: 1510 mm	length	: 1450 mm
width	: 70 mm	width	: 70 mm
height	: 70 mm	height	: 40 mm

**coordinate system**

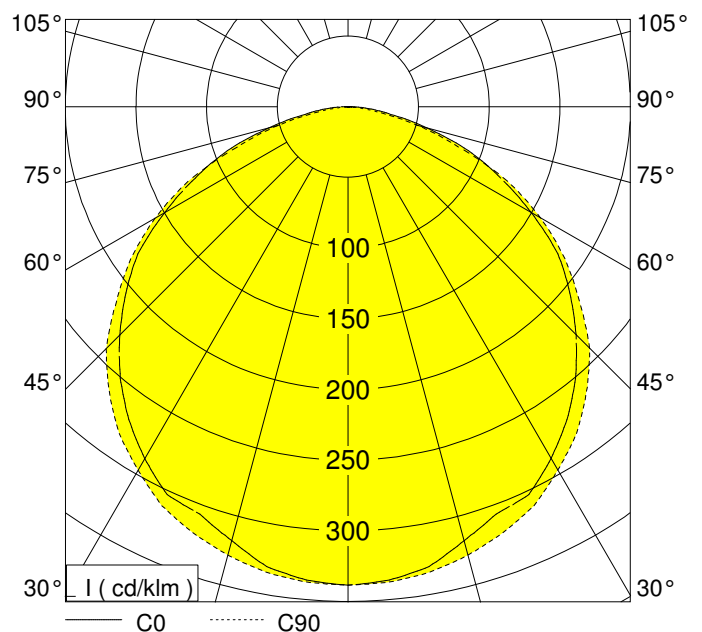
no of planes	: 7	samples / plane	: 37
first c-plane	: 0.0 °	first gamma-angle	: 0.0 °
step angle	: 15.0 °	step angle	: 5.0 °
last c-plane	: 90.0 °	last gamma-angle	: 180.0 °
symmetrics : symmetry to C0 / C90			

**performance**

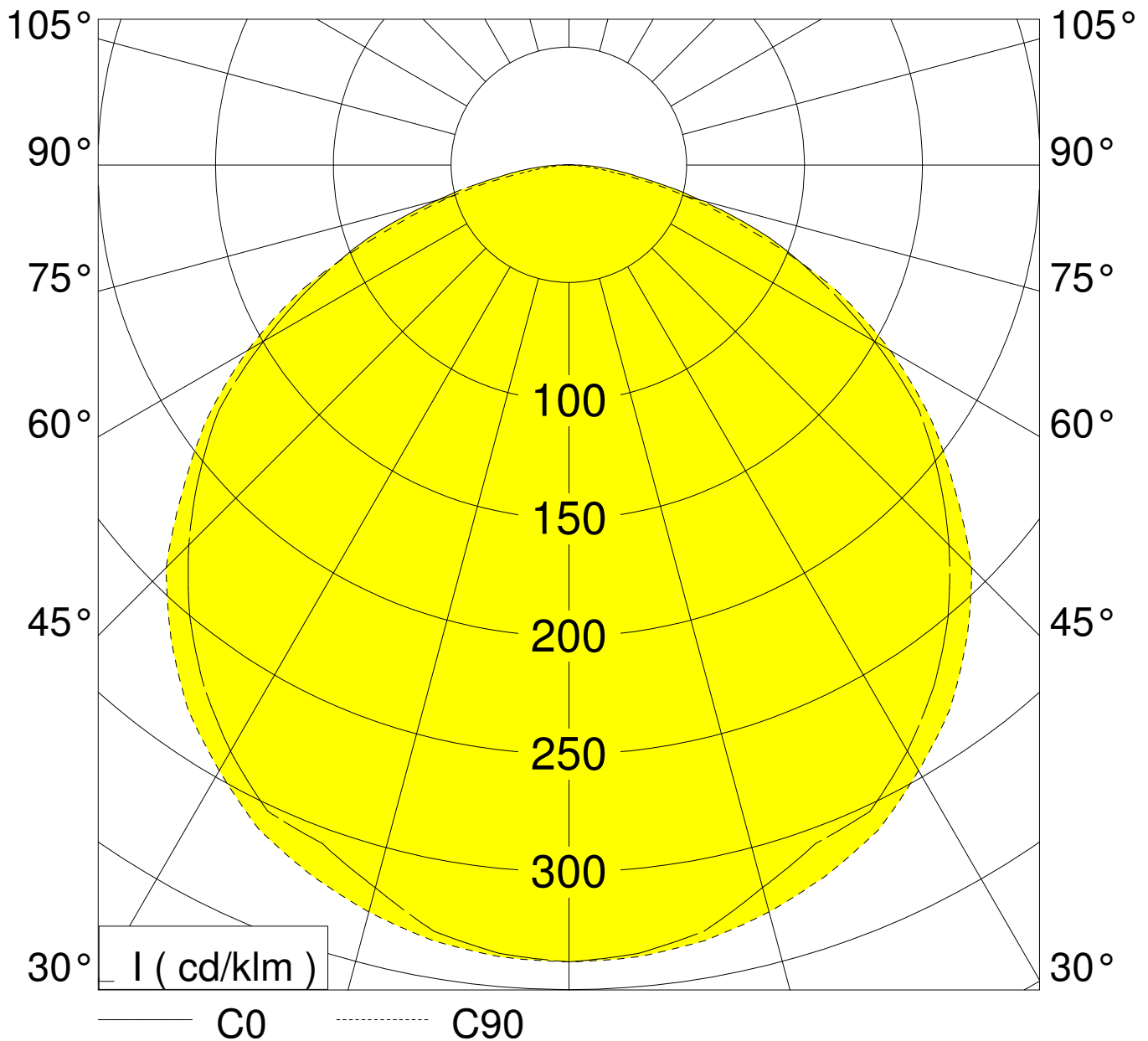
light output ratio : 100.0 %  
 DFF : 99.9 %  
 UFF : 0.1 %

**classification**

LiTG / DIN : A40  
 UTE : 1.00D+0.00T 1.00E+0.00T  
 CIE : 47 79 96 100 100  
 BZ : 4 4 4 4 4 4 4 4 4 4  
 Ambient Temperature : 25 degC  
 Input Voltage : 240 V  
 Circuit Watts : 48.5W  
 Amps (running) : 0.206A  
 V.A. : 47.49VA  
 Power Factor : 0.98  
 CCT : 4064K (measured); 4000K (declared)  
 CRI (Ra) : 85  
 Luminaire Lumens : 6130 LLm  
 Luminaire Lm/circ.Watt : 126.4 Lm/circ.Watt  
 Driver Details : TRIDONIC LCi65W 150-400W TOP IP 28000201



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°	338.00	338.00	338.00	338.00	338.00	338.00	338.00
5.0°	335.70	336.90	338.10	339.20	340.40	338.80	337.10
10.0°	330.00	331.70	333.40	335.30	337.20	335.50	333.90
15.0°	317.30	322.50	327.70	329.20	330.80	329.40	328.00
20.0°	306.20	310.50	314.80	318.90	323.00	321.60	320.30
25.0°	302.40	302.60	302.90	307.10	311.40	311.20	311.00
30.0°	287.10	293.20	299.20	296.80	294.50	295.50	296.60
35.0°	269.90	274.70	279.40	278.50	277.50	279.70	281.80
40.0°	250.20	254.50	258.90	260.10	261.30	261.90	262.50
45.0°	228.00	234.40	240.80	242.00	243.10	242.40	241.60
50.0°	204.80	208.20	211.60	213.60	215.60	214.60	213.50
55.0°	181.20	184.80	188.50	189.20	189.90	188.60	187.30
60.0°	149.60	154.80	160.10	161.70	163.30	160.30	157.40
65.0°	119.10	124.80	130.50	129.80	129.20	126.90	124.60
70.0°	90.60	94.90	99.20	98.60	97.90	90.70	83.30
75.0°	57.70	61.80	65.90	67.00	68.10	59.80	51.40
80.0°	30.70	35.50	40.40	38.10	35.90	28.50	21.10
85.0°	14.80	15.00	15.30	14.30	13.30	8.50	3.80
90.0°	2.50	2.80	3.20	2.50	1.80	0.90	0.00
95.0°	1.10	1.20	1.20	1.00	0.70	0.40	0.00
100.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0°	0.00	0.00	0.00	0.00	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	21.2	22.8	21.5	23.0	23.2	22.5	24.0	22.8	24.2	24.4
	3H	21.7	22.9	22.0	23.0	23.2	23.2	24.4	23.5	24.5	24.7
	4H	22.1	23.2	22.4	23.4	23.6	23.7	24.8	24.0	25.0	25.2
	6H	22.3	23.3	22.6	23.5	23.8	23.9	24.9	24.2	25.2	25.4
	8H	22.3	23.4	22.6	23.6	23.9	24.0	25.0	24.3	25.2	25.5
	12H	22.4	23.4	22.7	23.7	23.9	24.0	25.0	24.3	25.3	25.5
4H	2H	21.4	22.5	21.6	22.7	22.9	22.4	23.5	22.6	23.7	23.9
	3H	22.8	23.8	23.1	24.1	24.3	24.0	25.0	24.3	25.3	25.5
	4H	23.3	24.3	23.7	24.6	24.9	24.7	25.7	25.0	25.9	26.2
	6H	23.4	24.2	23.7	24.5	24.8	24.7	25.6	25.1	25.9	26.2
	8H	23.5	24.2	23.8	24.6	24.9	24.8	25.6	25.2	25.9	26.3
	12H	23.7	24.4	24.1	24.8	25.2	25.0	25.8	25.4	26.1	26.5
8H	4H	23.4	24.2	23.8	24.5	24.9	24.7	25.4	25.0	25.8	26.1
	6H	24.0	24.8	24.5	25.2	25.6	25.3	26.0	25.7	26.4	26.9
	8H	24.3	25.0	24.7	25.4	25.9	25.5	26.2	26.0	26.6	27.1
	12H	24.2	24.8	24.7	25.3	25.7	25.4	26.0	25.9	26.5	26.9
12H	4H	23.6	24.4	24.0	24.8	25.2	24.8	25.6	25.3	26.0	26.4
	6H	24.2	24.9	24.7	25.3	25.8	25.4	26.1	25.9	26.6	27.0
	8H	24.2	24.8	24.7	25.3	25.8	25.4	26.0	25.9	26.5	27.0
variation of observer position											
S =	1.0H	+0.2/                      -0.2				+0.1/                      -0.1					
	1.5H	+0.4/                      -0.6				+0.2/                      -0.3					
	2.0H	+0.6/                      -1.2				+0.7/                      -0.9					
standard-table		BK04					BK04				
correction for luminaire		6.5					7.8				
correct glare indices for a total flux of 6130lm											

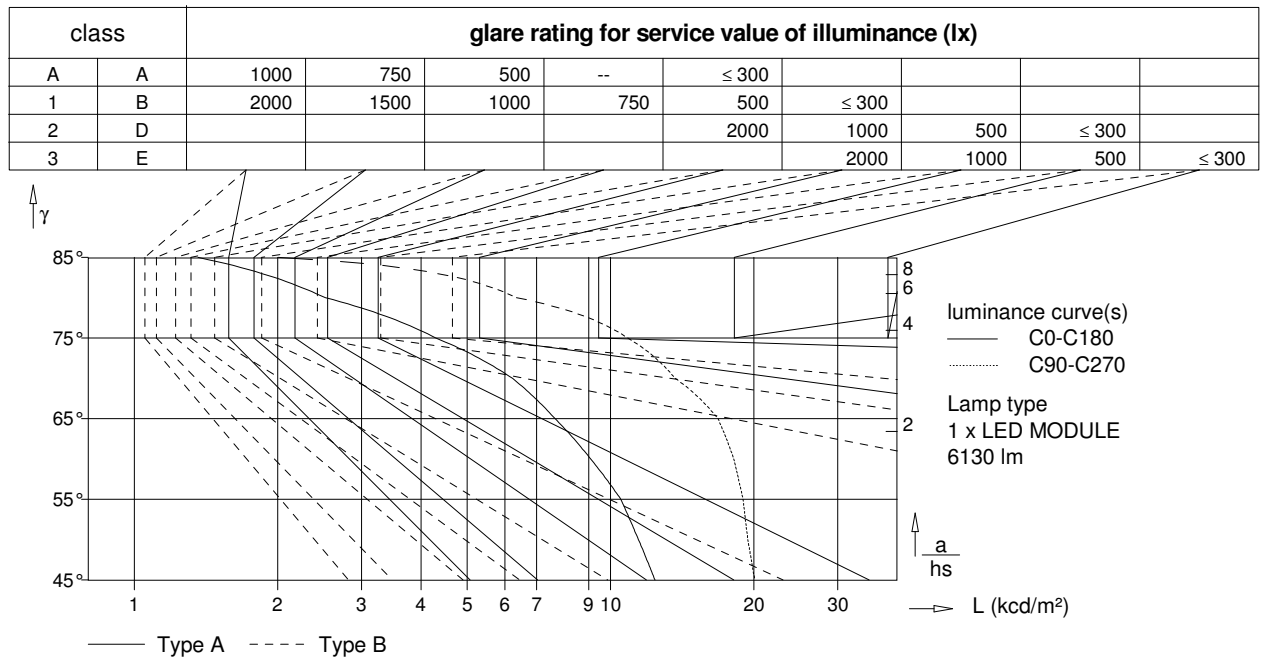


Tabelle der berechneten Leuchtdichten

gamma	C 0	C 90	C 180	C 270
45°	12392.2	20081.1	12392.2	20081.1
50°	11446.9	19421.2	11446.9	19421.2
55°	10505.7	18974.0	10505.7	18974.0
60°	9081.5	18145.1	9081.5	18145.1
65°	7647.9	16811.4	7647.9	16811.4
70°	6225.0	13672.9	6225.0	13672.9
75°	4298.0	10874.4	4298.0	10874.4
80°	2517.8	6345.7	2517.8	6345.7
85°	1361.7	2002.0	1361.7	2002.0

alle Werte in cd/m²

<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	59	68	76	81	88	93	96	101	104
70	30	20	52	60	68	74	82	87	91	97	100
70	10	20	47	55	63	69	77	83	87	93	97
50	50	20	58	66	73	78	85	89	93	97	99
50	30	20	51	59	67	72	80	85	88	93	96
50	10	20	46	54	62	68	75	81	85	90	94
30	50	20	56	64	71	76	82	86	89	93	95
30	30	20	50	58	66	71	78	82	86	90	93
30	10	20	46	54	61	66	74	79	83	88	91
0	0	0	44	51	58	63	71	75	79	83	86
BZ-class			4	4	4	4	4	4	4	4	4
SHRnom : 1.50						SHRmax : 1.610					

