

filename : MT70-LED-T3-CL-HO.LDT
 meas. number : 2802
 luminaire number : MT70-LED-T3-CL-HO
 date / operator : 11-12-2018

**default lamp type(s)**

no of lamps	lamp type	luminaire lumens	input wattage
1	LED MODULE	4710 lm	31.9 W

dimensions

luminaire		luminous area	
length	: 950 mm	length	: 890 mm
width	: 70 mm	width	: 70 mm
height	: 70 mm	height	: 35 mm

coordinate system

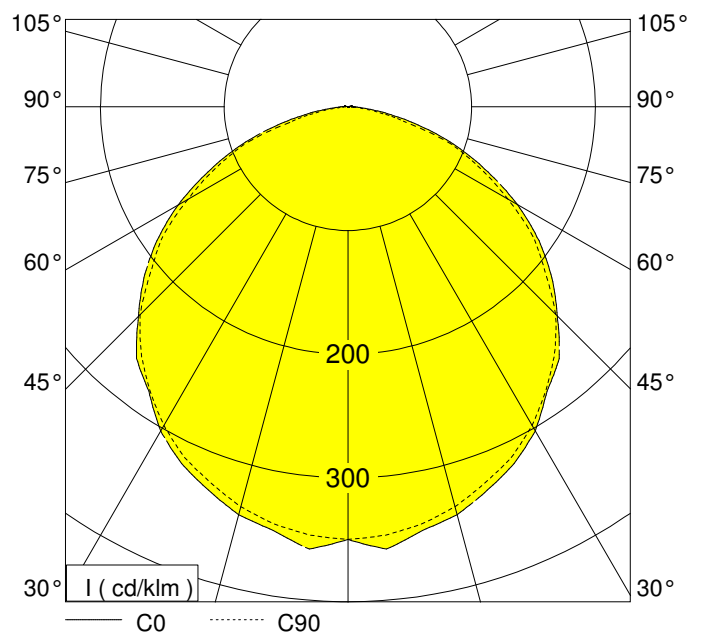
no of planes	: 7	samples / plane	: 37
first c-plane	: 0.0 °	first gamma-angle	: 0.0 °
step angle	: 15.0 °	step angle	: 5.0 °
last c-plane	: 90.0 °	last gamma-angle	: 180.0 °
symmetrics : symmetry to C0 / C90			

performance

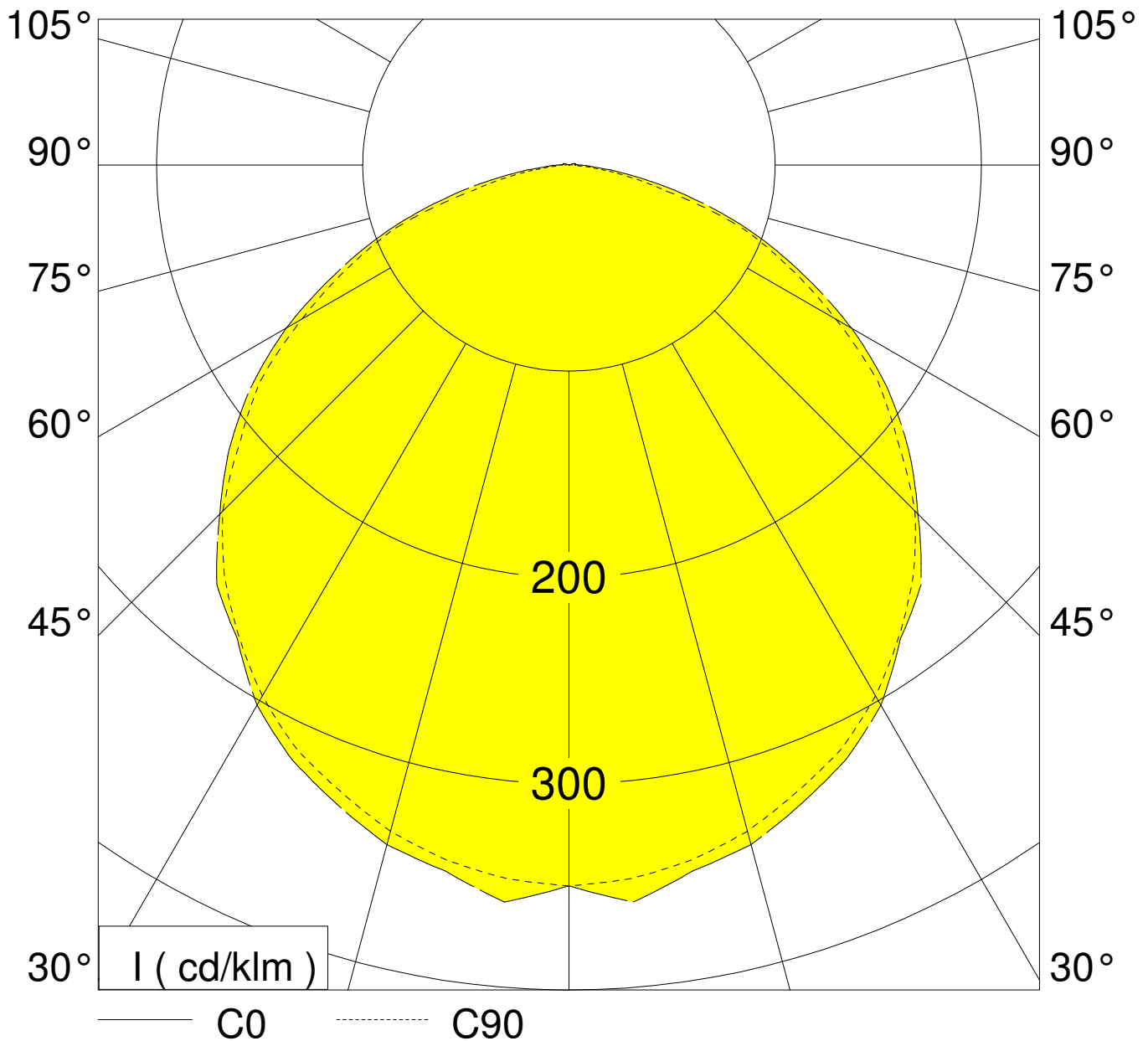
light output ratio : 100.0 %
 DFF : 99.5 %
 UFF : 0.5 %

classification

LiTG / DIN : A40
 UTE : 1.00D+0.00T 1.00E+0.00T
 CIE : 48 80 96 100 100
 BZ : 4 4 4 4 4 4 4 4 4
 Ambient Temperature : 25 degC
 Input Voltage : 240 V
 Circuit Watts : 31.9W
 Amps (running) : 0.138A
 V.A. : 33.23VA
 Power Factor : 0.96
 CCT : 4078K (measured); 4000K (declared)
 CRI (Ra) : 86
 S/P Ratio : 1.7
 Luminaire Lumens : 4710 LLm
 Output Current DC : 400mA
 Output Voltage DC : 67.9V
 Output Power : 27.16W
 Luminaire Lm/circ.Watt : 147.6 LLm/circ.Watt
 Driver Efficiency : 85%
 Driver Details : TRIDONIC LC38W 350-500mA FLEXC 1pADV



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°	349.40	349.40	349.40	349.40	349.40	349.40	349.40
5.0°	358.60	356.90	355.20	355.20	355.20	351.20	347.20
10.0°	347.30	345.80	344.40	347.00	349.70	345.90	342.10
15.0°	341.00	339.20	337.40	338.10	338.90	336.60	334.30
20.0°	329.50	327.70	325.90	327.80	329.70	326.50	323.30
25.0°	317.90	315.20	312.60	314.40	316.20	314.30	312.40
30.0°	302.40	299.80	297.20	298.60	300.00	298.60	297.20
35.0°	280.30	279.70	279.10	280.40	281.70	280.40	279.00
40.0°	265.60	260.40	255.30	258.80	262.30	261.10	259.80
45.0°	239.30	239.80	240.30	239.50	238.70	238.00	237.30
50.0°	215.10	211.40	207.70	210.10	212.60	210.30	207.90
55.0°	188.40	186.10	183.80	182.50	181.20	182.00	182.70
60.0°	158.20	156.90	155.50	156.40	157.20	153.30	149.30
65.0°	124.90	124.20	123.60	121.90	120.20	119.20	118.20
70.0°	93.70	92.80	91.90	91.60	91.30	90.30	89.40
75.0°	61.40	61.10	60.90	59.80	58.70	53.80	48.80
80.0°	32.70	32.00	31.20	31.60	32.00	27.90	23.80
85.0°	12.20	12.20	12.30	12.10	12.00	8.20	4.40
90.0°	4.50	4.60	4.70	4.50	4.20	2.10	0.00
95.0°	3.00	3.10	3.20	3.10	3.10	1.50	0.00
100.0°	2.80	2.90	2.90	2.80	2.80	1.40	0.00
105.0°	2.80	2.90	2.90	2.70	2.50	1.20	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	23.7	22.5	23.9	24.1	23.1	24.6	23.4	24.8	25.0
	3H	22.7	23.8	23.0	24.0	24.2	23.8	24.9	24.1	25.1	25.3
	4H	23.1	24.2	23.4	24.4	24.6	24.3	25.4	24.5	25.6	25.8
	6H	23.3	24.3	23.6	24.6	24.8	24.5	25.5	24.8	25.7	26.0
	8H	23.4	24.4	23.7	24.7	24.9	24.6	25.6	24.9	25.8	26.1
	12H	23.4	24.4	23.8	24.7	25.0	24.6	25.6	24.9	25.9	26.1
4H	2H	22.3	23.3	22.5	23.6	23.8	23.0	24.0	23.2	24.3	24.5
	3H	23.7	24.7	24.0	25.0	25.2	24.6	25.6	24.9	25.9	26.1
	4H	24.2	25.2	24.6	25.5	25.8	25.2	26.2	25.6	26.5	26.8
	6H	24.3	25.1	24.6	25.4	25.7	25.3	26.1	25.7	26.4	26.7
	8H	24.4	25.1	24.8	25.5	25.8	25.4	26.2	25.8	26.5	26.8
	12H	24.6	25.3	25.0	25.7	26.1	25.6	26.3	26.0	26.7	27.1
8H	4H	24.3	25.1	24.7	25.4	25.7	25.2	25.9	25.6	26.3	26.6
	6H	24.9	25.6	25.3	26.0	26.4	25.8	26.5	26.3	26.9	27.4
	8H	25.1	25.8	25.6	26.2	26.7	26.0	26.7	26.5	27.2	27.6
	12H	25.0	25.6	25.5	26.1	26.6	26.0	26.5	26.5	27.0	27.5
12H	4H	24.5	25.2	24.9	25.6	26.0	25.4	26.1	25.8	26.5	26.9
	6H	25.0	25.7	25.5	26.1	26.6	25.9	26.6	26.4	27.1	27.6
	8H	25.0	25.6	25.5	26.1	26.6	26.0	26.5	26.5	27.0	27.5
variation of observer position											
S =	1.0H	+0.2/ -0.2				+0.1/ -0.1					
	1.5H	+0.3/ -0.6				+0.3/ -0.4					
	2.0H	+0.7/ -1.1				+0.7/ -0.9					
standard-table		BK04					BK04				
correction for luminaire		7.4					8.3				
correct glare indices for a total flux of 4710lm											

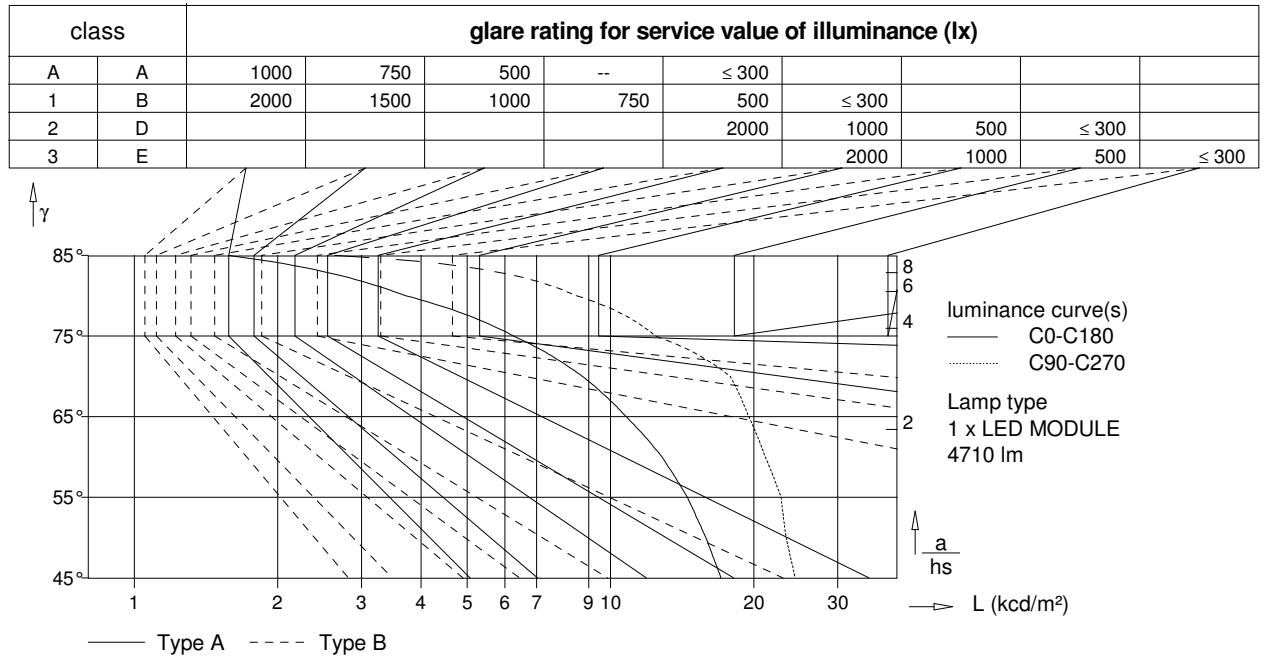


Table of intensities

gamma	C 0	C 90	C 180	C 270
45°	17056.9	24411.5	17056.9	24411.5
50°	15852.8	23357.6	15852.8	23357.6
55°	14487.5	22800.7	14487.5	22800.7
60°	12818.9	21135.1	12818.9	21135.1
65°	10782.1	19500.2	10782.1	19500.2
70°	8725.5	17834.5	8725.5	17834.5
75°	6257.8	12430.3	6257.8	12430.3
80°	3711.7	8472.3	3711.7	8472.3
85°	1576.0	2633.1	1576.0	2633.1

all values 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	60	69	76	81	88	93	97	101	104
70	30	20	53	61	69	75	83	88	92	97	100
70	10	20	47	56	64	69	78	83	88	93	97
50	50	20	59	67	74	79	85	90	93	97	99
50	30	20	52	60	68	73	80	85	89	94	97
50	10	20	47	55	63	68	76	81	85	91	94
30	50	20	57	65	71	76	82	86	89	93	96
30	30	20	51	59	66	71	78	83	86	90	93
30	10	20	47	54	62	67	75	80	83	88	91
0	0	0	45	52	59	64	71	76	79	84	86
BZ-class			4	4	4	4	4	4	4	4	4
SHRnom : 1.50						SHRmax : 1.627					

