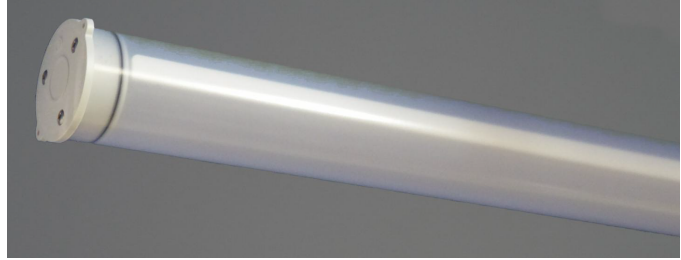


filename : MT70-LED-F3-SC(HE).LDT
 meas. number : 2609
 luminaire number : MT70-LED-F3-SC(HE)
 date / operator : 17-05-2018

**default lamp type(s)**

no of lamps	lamp type	luminaire lumens	input wattage
1	LED MODULE	4000 lm	26.4 W

dimensions

luminaire		luminous area	
length	: 1800 mm	length	: 1740 mm
width	: 70 mm	width	: 70 mm
height	: 70 mm	height	: 35 mm

coordinate system

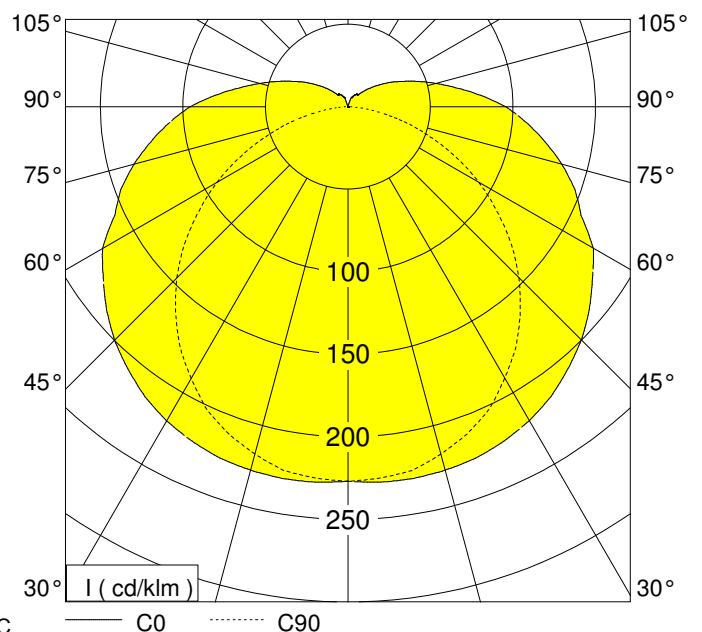
no of planes	: 7	samples / plane	: 37
first c-plane	: 0.0 °	first gamma-angle	: 0.0 °
step angle	: 15.0 °	step angle	: 5.0 °
last c-plane	: 90.0 °	last gamma-angle	: 180.0 °
symmetrics : symmetry to C0 / C90			

performance

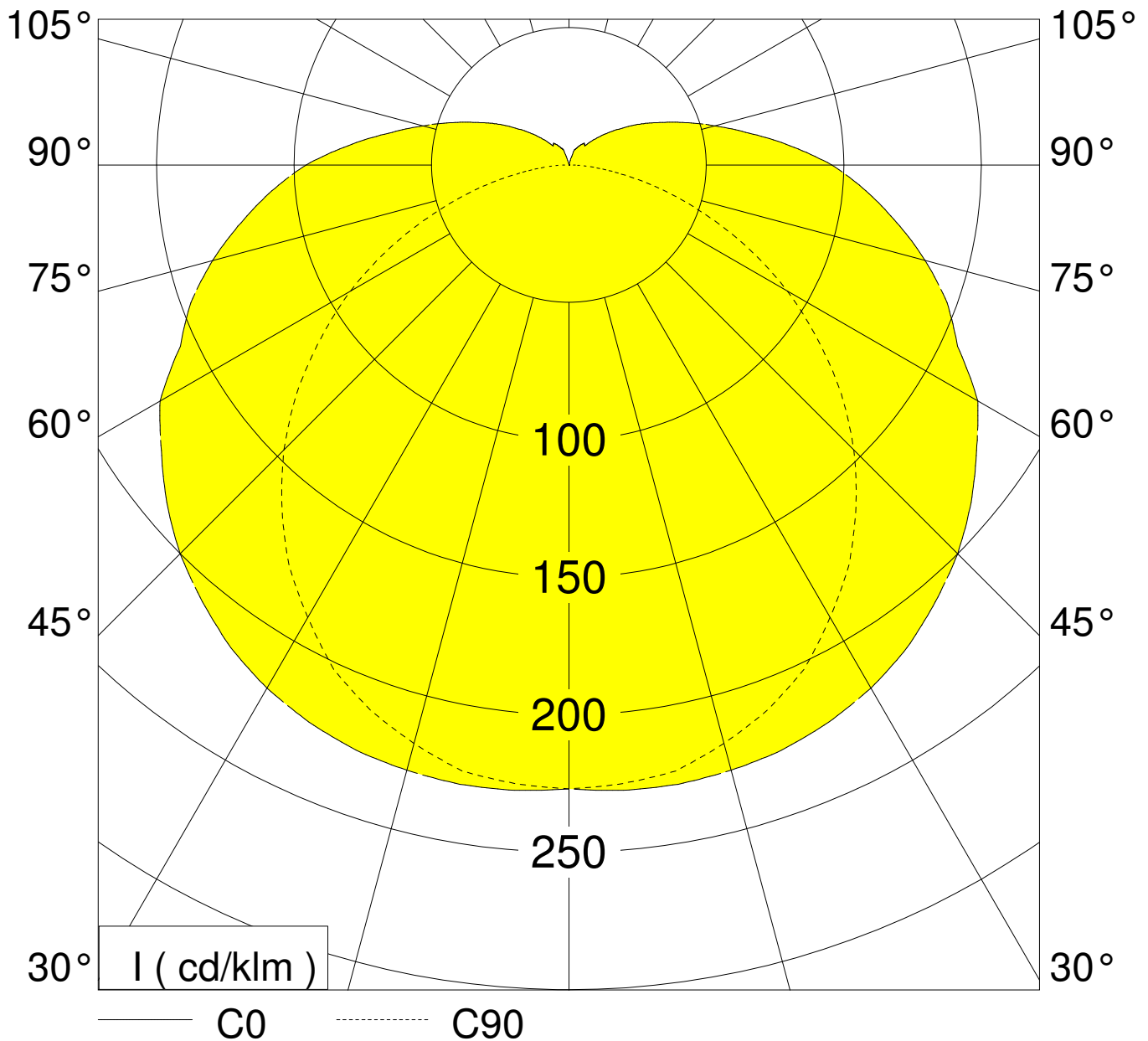
light output ratio	: 100.0 %
DFF	: 87.3 %
UFF	: 12.7 %

classification

LiTG / DIN	: B31
UTE	: 0.87G+0.13T 0.87H+0.13T
CIE	: 37 66 87 87 100
BZ	: 1 5 6 6 6 6 6 6 6
Ambient Temperature	: 25 degC
Input Voltage	: 240 V
Circuit Watts	: 26.4W
Amps (running)	: 0.120A
V.A.	: 28.70VA
Power Factor	: 0.92
CCT	: 4062K (measured); 4000K (declared)
CRI (Ra)	: 90
S/P Ratio	: 1.8
Luminaire Lumens	: 4000 LLm
Output Current DC	: 170mA
Output Voltage DC	: 135.5V
Output Power	: 23.03W
Luminaire Lm/circ.Watt	: 151.5LLm/circ.Watt
Driver Efficiency	: 87.25%
Driver Details	: TRIDONIC LC50 100-400mA FLEX IpEXC 28000680



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°	226.80	226.80	226.80	226.80	226.80	226.80	226.80
5.0°	228.20	227.80	227.50	227.20	227.00	226.40	225.70
10.0°	228.60	228.00	227.30	226.30	225.20	224.40	223.70
15.0°	227.80	226.70	225.60	223.60	221.70	219.70	217.70
20.0°	226.40	224.70	222.90	219.50	216.10	213.60	210.90
25.0°	223.50	221.30	219.10	214.20	209.20	205.70	202.30
30.0°	219.60	216.70	213.90	207.10	200.30	195.10	189.90
35.0°	214.30	210.70	207.00	198.60	190.00	183.80	177.50
40.0°	207.30	203.10	199.10	188.40	177.80	170.20	162.40
45.0°	199.90	194.90	189.90	177.20	164.40	155.50	146.50
50.0°	190.90	185.70	180.40	165.70	151.00	140.10	129.20
55.0°	180.90	175.40	170.00	152.80	135.70	123.00	110.30
60.0°	171.70	165.00	158.50	139.20	119.90	105.80	91.70
65.0°	155.90	151.20	146.50	125.80	104.90	88.60	72.30
70.0°	146.30	140.10	133.80	112.00	90.10	71.50	52.90
75.0°	134.10	128.00	121.80	99.30	76.70	56.10	35.40
80.0°	121.10	115.00	108.70	86.40	64.00	41.70	19.30
85.0°	108.40	101.80	95.10	73.60	52.00	30.00	7.90
90.0°	95.60	87.60	79.40	59.90	40.20	20.10	0.00
95.0°	80.60	70.30	60.00	46.50	33.10	16.60	0.00
100.0°	66.50	61.10	55.60	41.10	26.60	13.30	0.00
105.0°	54.90	50.60	46.40	33.80	21.20	10.60	0.00
110.0°	45.00	40.70	36.40	26.40	16.40	8.10	0.00
115.0°	36.50	33.60	30.70	21.60	12.50	6.30	0.00
120.0°	29.70	26.20	22.60	16.50	10.20	5.20	0.00
125.0°	23.10	20.90	18.90	13.80	8.70	4.40	0.00
130.0°	17.80	16.50	15.20	11.30	7.40	3.80	0.00
135.0°	13.20	12.80	12.40	9.20	6.10	3.10	0.00
140.0°	9.00	9.50	10.10	7.80	5.60	2.80	0.00
145.0°	9.70	9.00	8.30	6.80	5.30	2.60	0.00
150.0°	8.30	7.50	6.80	3.40	0.00	0.00	0.00
155.0°	6.80	6.10	5.40	2.70	0.00	0.00	0.00
160.0°	5.80	2.90	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	18.8	20.3	19.2	20.7	21.1	17.5	19.0	17.9	19.4	19.8
	3H	20.7	22.0	21.2	22.4	22.9	18.7	20.0	19.2	20.4	20.9
	4H	21.9	23.1	22.4	23.6	24.1	19.3	20.6	19.8	21.0	21.5
	6H	22.9	24.1	23.5	24.6	25.2	19.7	20.9	20.2	21.4	21.9
	8H	23.5	24.7	24.0	25.2	25.7	19.9	21.1	20.4	21.6	22.1
	12H	24.1	25.2	24.6	25.7	26.3	20.0	21.2	20.6	21.7	22.3
4H	2H	19.2	20.5	19.7	20.9	21.4	18.3	19.5	18.7	19.9	20.4
	3H	21.8	22.9	22.3	23.4	24.0	20.1	21.2	20.6	21.7	22.3
	4H	23.2	24.3	23.7	24.8	25.5	20.9	22.0	21.5	22.6	23.3
	6H	24.2	25.2	24.8	25.7	26.4	21.3	22.2	21.9	22.8	23.5
	8H	24.9	25.7	25.5	26.3	27.0	21.5	22.4	22.2	23.0	23.7
	12H	25.6	26.5	26.3	27.1	27.9	21.8	22.7	22.5	23.4	24.2
8H	4H	23.3	24.2	24.0	24.8	25.5	21.5	22.4	22.1	23.0	23.7
	6H	25.1	25.9	25.8	26.6	27.5	22.6	23.4	23.3	24.1	25.0
	8H	26.0	26.8	26.7	27.5	28.4	23.0	23.9	23.8	24.6	25.5
	12H	26.6	27.3	27.4	28.1	29.0	23.2	23.9	24.0	24.7	25.6
12H	4H	23.5	24.4	24.2	25.1	25.8	21.8	22.6	22.5	23.3	24.1
	6H	25.3	26.1	26.0	26.9	27.8	23.0	23.8	23.7	24.6	25.5
	8H	26.1	26.7	26.8	27.5	28.4	23.4	24.0	24.1	24.8	25.7
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	+0.2/ -0.3				+0.3/ -0.5					
standard-table		BK10					BKFF				
correction for luminaire		9.8					6.2				
correct glare indices for a total flux of 4000lm											

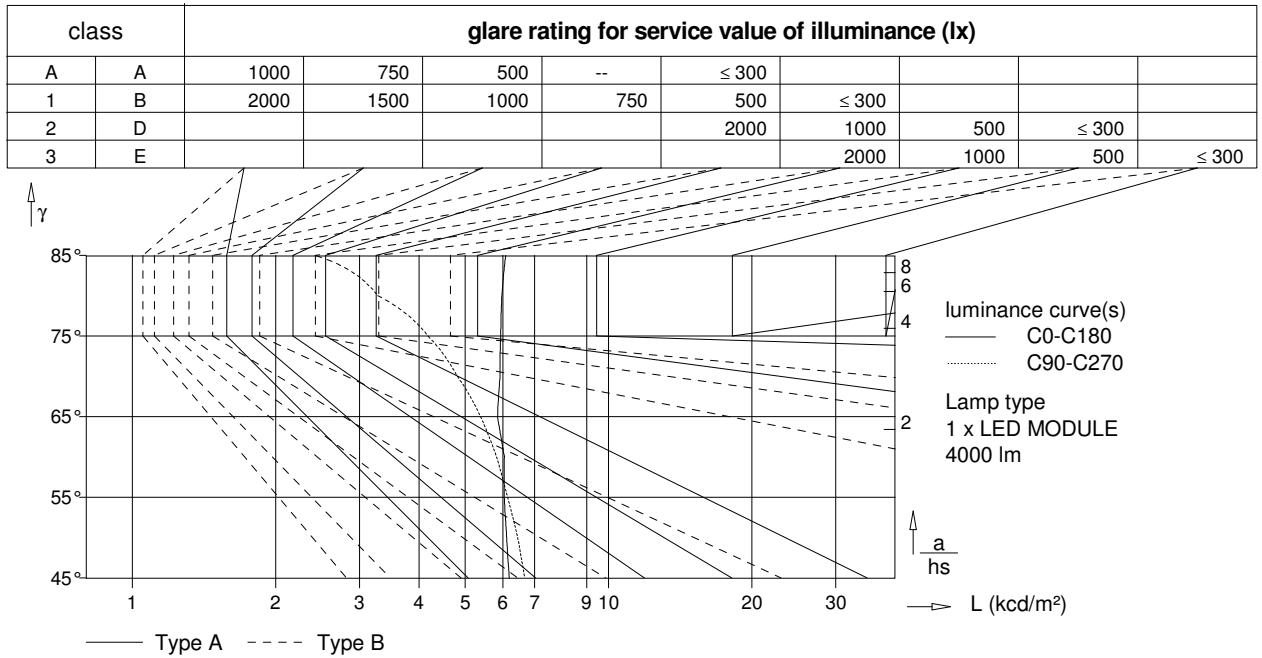


Table of intensities

gamma	C 0	C 90	C 180	C 270
45°	6189.4	6669.9	6189.4	6669.9
50°	6111.6	6446.4	6111.6	6446.4
55°	6042.7	6139.0	6042.7	6139.0
60°	6043.6	5820.2	6043.6	5820.2
65°	5846.1	5385.9	5846.1	5385.9
70°	5918.0	4813.4	5918.0	4813.4
75°	5937.0	4178.1	5937.0	4178.1
80°	5971.0	3276.3	5971.0	3276.3
85°	6082.7	2420.3	6082.7	2420.3

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	N/A	60	67	72	79	83	87	92	95
70	30	20	N/A	52	59	64	72	77	81	87	90
70	10	20	N/A	46	52	58	66	71	76	82	86
50	50	20	N/A	56	62	67	73	78	81	85	88
50	30	20	N/A	49	56	61	68	72	76	81	85
50	10	20	N/A	44	50	55	63	68	72	78	81
30	50	20	N/A	53	59	63	69	73	75	79	82
30	30	20	N/A	47	53	57	64	68	72	76	79
30	10	20	N/A	43	48	53	60	64	68	73	77
0	0	0	N/A	39	44	48	54	58	61	66	69
BZ-class			1	5	6	6	6	6	6	6	6
SHRnom : 1.75						SHRmax : 1.758					

