

filename : MT50-LED-T5-CL-HE.LDT
 meas. number : 2713
 luminaire number : MT50 LED T5 CL HE
 date / operator : 03-10-2018

**default lamp type(s)**

no of lamps	lamp type	luminaire lumens	input wattage
1	LED MODULE	3410 lm	22.6 W

dimensions

luminaire		luminous area	
length	: 1515 mm	length	: 1455 mm
width	: 50 mm	width	: 50 mm
height	: 50 mm	height	: 25 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 °

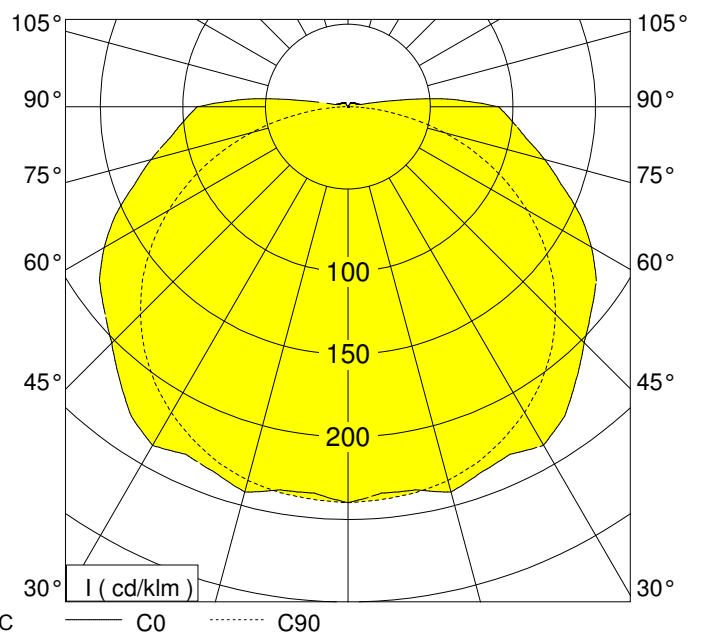
symmetrics : symmetry to C0 / C90

performance

light output ratio : 100.0 %
 DFF : 95.3 %
 UFF : 4.7 %

classification

LITG / DIN : A31
 UTE : 0.95G+0.05T 0.95H+0.05T
 CIE : 37 66 87 95 100
 BZ : 1 5 6 6 6 6 6 6 6
 Ambient Temperature : 25 degC
 Input Voltage : 240 V
 Circuit Watts : 22.6W
 Amps (running) : 0.106A
 V.A. : 25.44VA
 Power Factor : 0.90
 CCT : 4205K (measured): 4200K (declared)
 CRI (Ra) : 91
 S/P Ratio : 1.8
 Luminaire Lumens : 3410 LLm
 Output Current DC : 170mA
 Output Voltage DC : 113.3V
 Output Power : 19.26W
 Luminaire Lm/circ.Watt : 151 LLm/circ.Watt
 Driver Efficiency : 85.2%
 Driver Details : TRIDONIC LC50W 100-400mA FLEX C1p EXC 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%

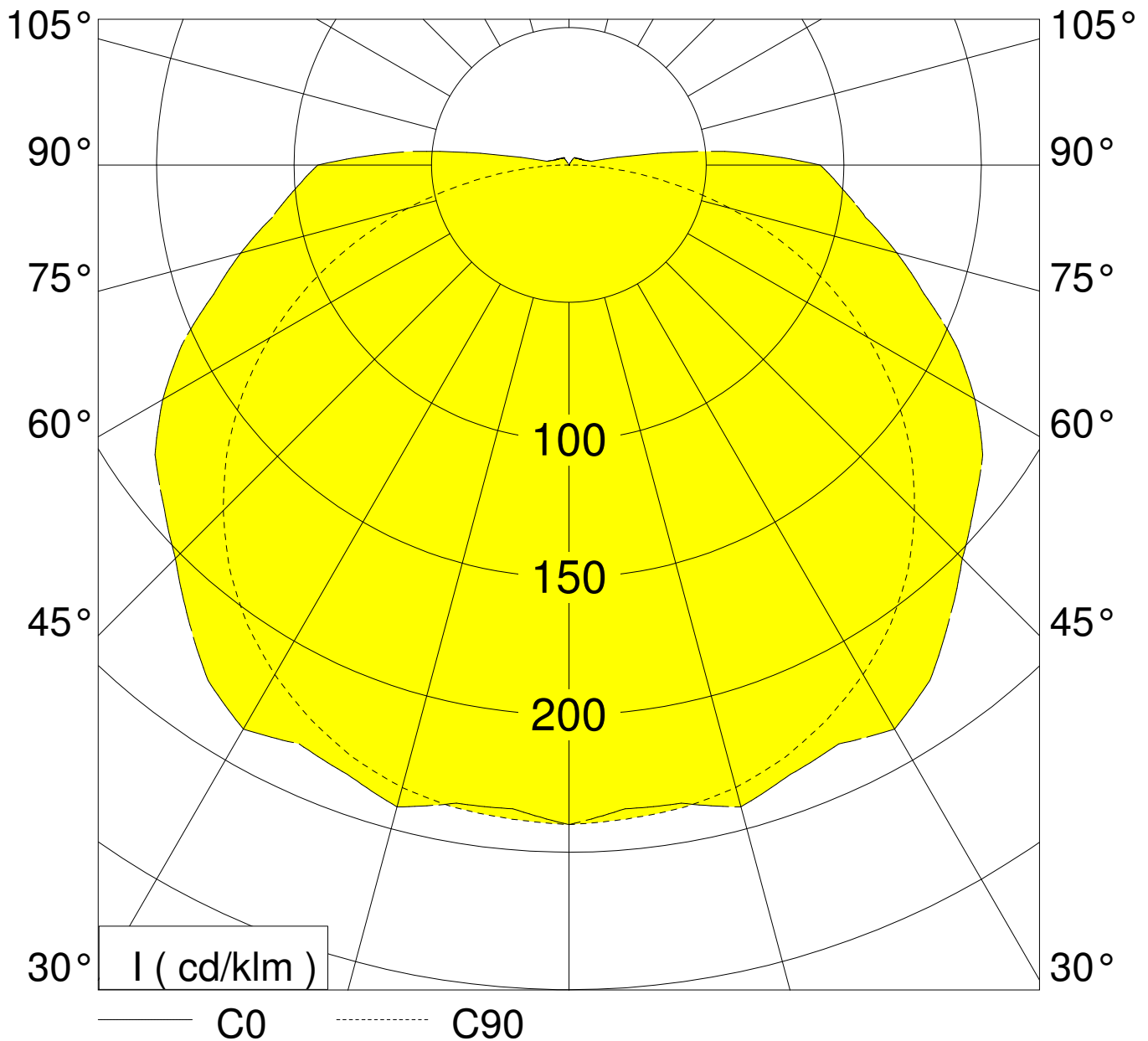
The Light output ratio in real terms would be less than 100%. If it was possible to compare

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°	239.80	239.80	239.80	239.80	239.80	239.80	239.80
5.0°	234.90	235.30	235.70	236.80	237.90	238.30	238.70
10.0°	235.60	234.30	232.90	233.40	234.00	235.60	237.30
15.0°	241.60	239.40	237.10	233.40	229.80	232.00	234.30
20.0°	235.70	236.10	236.40	231.70	227.10	228.20	229.30
25.0°	232.20	230.80	229.40	227.40	225.30	223.80	222.30
30.0°	236.80	231.40	226.00	223.10	220.10	217.10	213.90
35.0°	228.80	229.40	230.00	219.90	209.80	206.80	203.90
40.0°	215.30	215.70	216.10	206.60	197.30	194.60	191.90
45.0°	202.30	202.00	201.80	194.00	186.40	182.00	177.70
50.0°	192.40	190.70	188.90	185.50	182.10	172.20	162.30
55.0°	183.70	179.30	175.00	170.20	165.40	155.00	144.70
60.0°	170.50	168.30	166.00	155.00	144.10	134.80	125.50
65.0°	155.40	153.10	150.90	137.90	124.90	114.80	104.80
70.0°	137.50	135.80	134.00	123.10	112.10	97.60	83.00
75.0°	123.40	121.70	120.10	108.50	97.00	78.70	60.50
80.0°	109.50	107.30	105.10	92.70	80.30	58.70	37.00
85.0°	99.80	97.50	95.20	81.50	67.80	42.00	16.20
90.0°	91.30	88.20	85.20	70.40	55.60	27.80	0.00
95.0°	56.90	52.10	47.30	27.90	8.50	4.30	0.00
100.0°	8.00	7.70	7.40	6.70	6.20	3.10	0.00
105.0°	6.30	6.10	6.00	5.50	5.00	2.50	0.00
110.0°	5.40	5.30	5.20	4.60	4.10	2.10	0.00
115.0°	4.90	4.70	4.60	4.10	3.60	1.80	0.00
120.0°	4.40	4.20	4.00	3.70	3.30	1.70	0.00
125.0°	4.10	3.90	3.70	3.50	3.20	1.60	0.00
130.0°	3.70	3.60	3.40	1.70	0.00	0.00	0.00
135.0°	3.50	3.40	3.20	1.60	0.00	0.00	0.00
140.0°	3.40	3.30	3.20	1.60	0.00	0.00	0.00
145.0°	3.20	1.60	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	20.4	22.0	20.7	22.3	22.6	20.3	21.9	20.7	22.2	22.5
	3H	22.0	23.3	22.3	23.6	23.9	21.7	23.0	22.1	23.3	23.6
	4H	23.0	24.3	23.4	24.6	24.9	22.5	23.8	22.9	24.1	24.4
	6H	23.9	25.1	24.3	25.5	25.8	23.1	24.3	23.5	24.7	25.0
	8H	24.5	25.6	24.8	26.0	26.4	23.4	24.6	23.8	24.9	25.3
	12H	25.0	26.2	25.4	26.5	26.9	23.6	24.8	24.0	25.1	25.5
4H	2H	20.8	22.0	21.1	22.3	22.7	20.7	22.0	21.1	22.3	22.6
	3H	23.1	24.3	23.5	24.7	25.0	22.8	24.0	23.3	24.4	24.8
	4H	24.4	25.5	24.8	25.9	26.3	23.9	25.1	24.3	25.5	25.9
	6H	25.3	26.2	25.7	26.6	27.1	24.5	25.5	24.9	25.9	26.3
	8H	25.9	26.8	26.3	27.2	27.7	24.8	25.7	25.3	26.2	26.6
	12H	26.6	27.5	27.1	28.0	28.5	25.2	26.1	25.7	26.6	27.1
8H	4H	24.6	25.5	25.1	26.0	26.4	24.2	25.2	24.7	25.6	26.1
	6H	26.2	27.1	26.8	27.6	28.2	25.5	26.4	26.1	26.9	27.5
	8H	27.1	27.9	27.6	28.5	29.1	26.1	27.0	26.7	27.5	28.1
	12H	27.7	28.4	28.3	29.0	29.6	26.4	27.1	27.0	27.7	28.3
12H	4H	24.8	25.7	25.4	26.2	26.8	24.5	25.4	25.0	25.9	26.4
	6H	26.5	27.3	27.1	27.9	28.5	25.9	26.7	26.4	27.3	27.9
	8H	27.2	27.9	27.8	28.5	29.1	26.3	27.0	26.9	27.6	28.2
variation of observer position											
S =	1.0H	+0.1/ -0.1				+0.1/ -0.1					
	1.5H	+0.2/ -0.2				+0.2/ -0.2					
	2.0H	+0.2/ -0.3				+0.2/ -0.4					
standard-table		BK09					BK08				
correction for luminaire		10.5					9.3				
correct glare indices for a total flux of 3410lm											

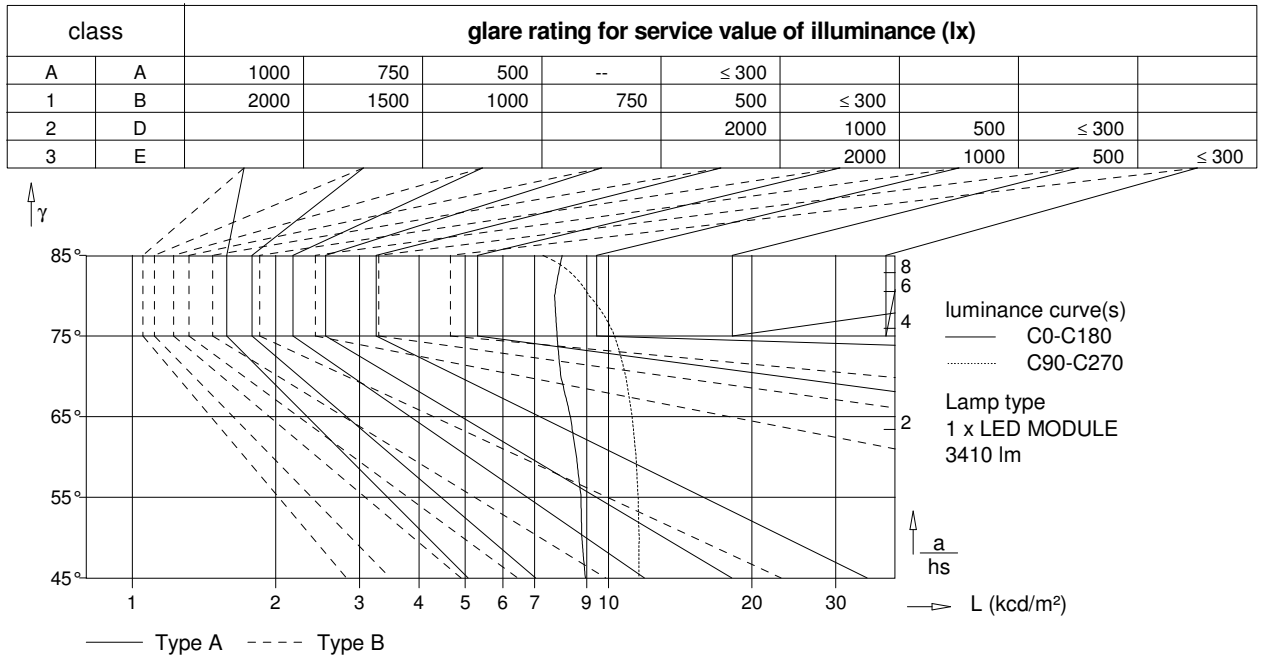


Table of intensities

gamma	C 0	C 90	C 180	C 270
45°	8940.1	11580.4	8940.1	11580.4
50°	8791.4	11597.6	8791.4	11597.6
55°	8758.1	11541.7	8758.1	11541.7
60°	8565.6	11425.1	8565.6	11425.1
65°	8317.3	11210.4	8317.3	11210.4
70°	7938.5	10862.1	7938.5	10862.1
75°	7797.6	10296.5	7797.6	10296.5
80°	7706.0	9100.6	7706.0	9100.6
85°	7993.0	7282.3	7993.0	7282.3

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	61	68	73	80	85	89	94	97
70	30	20	N/A	53	60	65	73	79	83	89	92
70	10	20	N/A	47	54	59	67	73	77	84	88
50	50	20	N/A	59	65	70	76	81	84	89	92
50	30	20	N/A	51	58	63	70	75	79	85	88
50	10	20	N/A	46	52	57	65	71	75	81	85
30	50	20	N/A	56	62	66	73	77	80	84	87
30	30	20	N/A	50	56	61	68	72	76	81	84
30	10	20	N/A	45	51	56	63	68	72	78	81
0	0	0	N/A	42	48	52	59	64	67	72	75
BZ-class			1	5	6	6	6	6	6	6	6
SHRnom : 1.75						SHRmax : 1.778					

