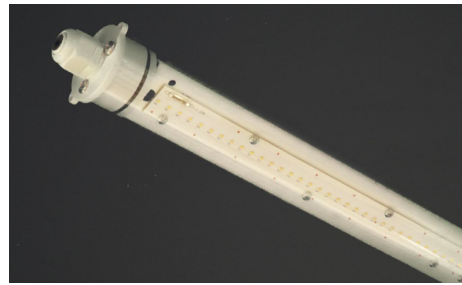


filename : MT50-LED-T8-CL-HO.LDT  
 meas. number : 2909  
 luminaire number : MT50 LED T8 CL HO  
 date / operator : 19-03-2019

**default lamp type(s)**

no of lamps	lamp type	luminaire lumens	input wattage
1	LED MODULE	9680 lm	65.8 W

**dimensions**

luminaire		luminous area	
length	: 2400 mm	length	: 2340 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			

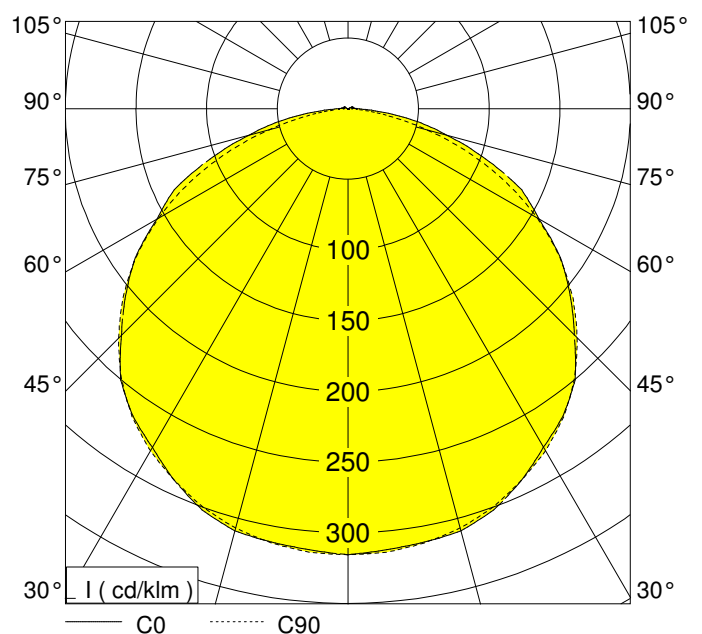
**performance**

light output ratio : 100.0 %  
 DFF : 99.2 %  
 UFF : 0.8 %

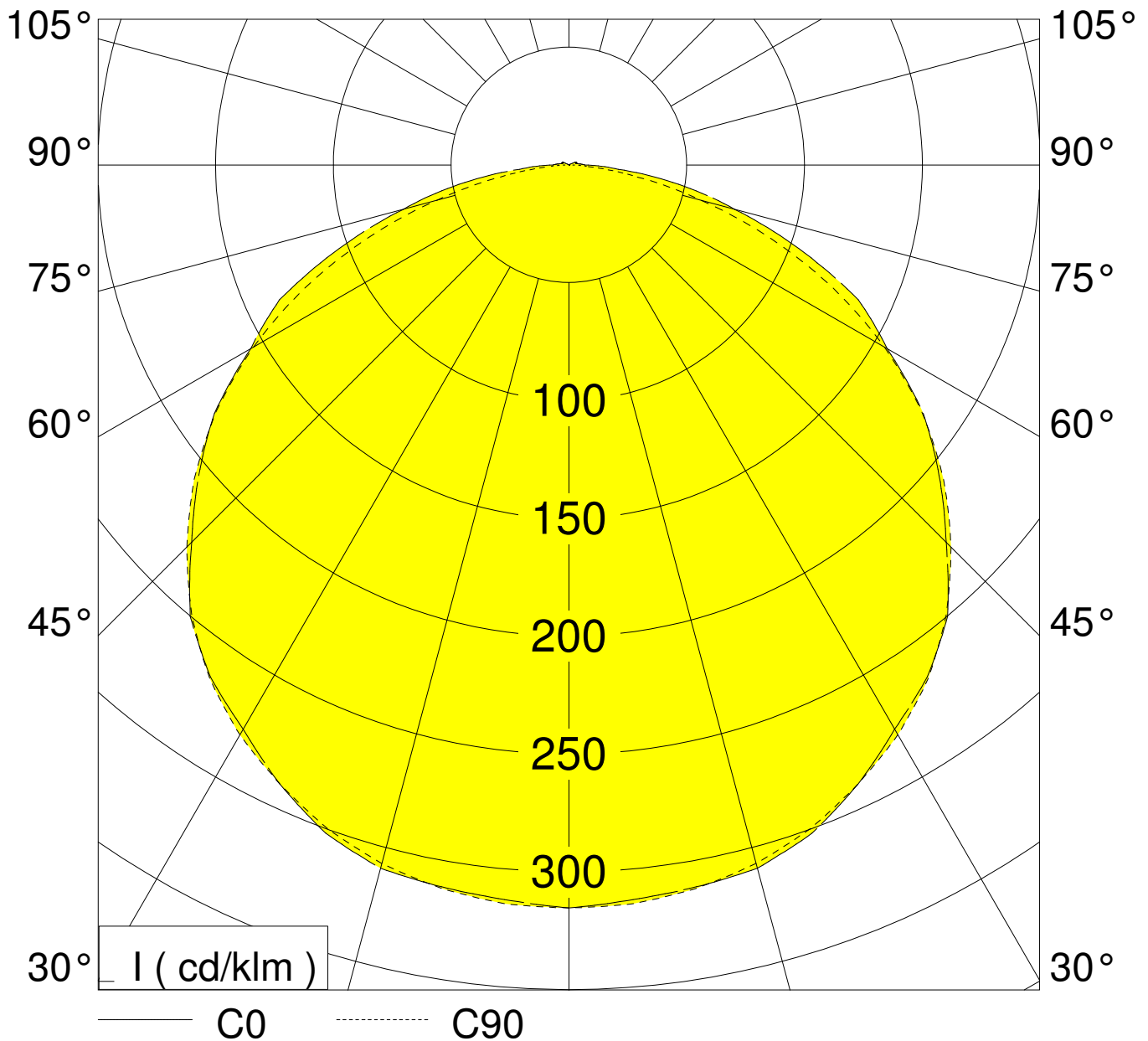
**classification**

LiTG / DIN : A40  
 UTE : 0.99E+0.01T  
 CIE : 45 77 95 99 100  
 BZ : 5 5 5 5 5 5 5 5

Ambient Temperature : 25 degC  
 Input Voltage : 240 V  
 Circuit Watts : 65.8W  
 Amps (running) : 0.280A  
 V.A. : 67.14VA  
 Power Factor : 0.98  
 CCT : 4059K (measured); 4000K (declared)  
 CRI (Ra) : 85  
 S/P Ratio : 1.7  
 Luminaire Lumens : 9680 LLm  
 Output Current DC : 350mA  
 Output Voltage DC : 178.1V  
 Output Power : 62.34W  
 Luminaire Lm/circ.Watt : 147 LLm/circ.Watt  
 Driver Efficiency : 94.7%  
 Driver Details : TRIDONIC LC 75W 100-400mA  
 FLEX C 1P EXC 280000713



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°	315.10	315.10	315.10	315.10	315.10	315.10	315.10
5.0°	312.70	313.60	314.50	314.80	315.10	314.80	314.50
10.0°	310.90	311.80	312.70	313.00	313.30	312.40	311.50
15.0°	308.80	309.50	310.20	309.00	307.90	307.30	306.70
20.0°	301.60	303.70	305.90	303.90	301.90	300.70	299.50
25.0°	289.90	291.40	292.90	293.80	294.60	292.20	289.80
30.0°	276.30	278.50	280.60	283.10	285.60	282.40	279.10
35.0°	265.10	267.90	270.70	271.60	272.50	269.10	265.80
40.0°	249.90	251.70	253.40	253.00	252.60	250.80	249.00
45.0°	226.30	229.40	232.40	232.60	232.70	231.00	229.20
50.0°	205.00	208.00	210.90	211.90	212.90	210.20	207.50
55.0°	183.50	185.80	188.10	188.40	188.80	185.80	182.80
60.0°	155.90	159.70	163.40	160.80	158.20	156.40	154.60
65.0°	135.50	136.80	138.10	133.60	129.00	126.40	123.70
70.0°	103.70	106.50	109.30	103.70	98.00	94.50	91.00
75.0°	72.90	74.80	76.80	73.40	70.00	64.10	58.10
80.0°	47.40	47.80	48.30	45.10	42.00	35.80	29.50
85.0°	21.00	21.70	22.50	19.80	17.10	12.70	8.30
90.0°	6.80	7.10	7.40	5.90	4.50	2.30	0.00
95.0°	4.90	4.50	4.10	3.50	2.90	1.40	0.00
100.0°	3.20	3.20	3.30	2.90	2.60	1.30	0.00
105.0°	3.10	3.10	3.10	2.80	2.50	1.20	0.00
110.0°	3.10	3.10	3.00	2.70	2.30	1.20	0.00
115.0°	3.00	2.90	2.90	1.50	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	22.6	24.1	22.9	24.4	24.6	23.6	25.1	23.9	25.3	25.6
	3H	23.4	24.5	23.6	24.7	24.9	24.5	25.6	24.7	25.8	26.0
	4H	23.9	25.0	24.2	25.2	25.4	25.0	26.2	25.3	26.4	26.6
	6H	24.2	25.3	24.5	25.5	25.8	25.3	26.4	25.7	26.7	26.9
	8H	24.3	25.4	24.6	25.6	25.9	25.5	26.5	25.8	26.8	27.0
	12H	24.4	25.5	24.7	25.7	26.0	25.5	26.6	25.9	26.9	27.1
4H	2H	22.8	23.9	23.1	24.1	24.3	23.5	24.7	23.8	24.9	25.1
	3H	24.4	25.5	24.8	25.8	26.0	25.3	26.3	25.6	26.6	26.9
	4H	25.1	26.2	25.5	26.5	26.8	26.0	27.1	26.4	27.4	27.7
	6H	25.3	26.2	25.7	26.5	26.8	26.2	27.1	26.6	27.4	27.7
	8H	25.5	26.3	25.9	26.6	27.0	26.4	27.2	26.8	27.5	27.9
	12H	25.7	26.5	26.2	26.9	27.3	26.6	27.4	27.0	27.8	28.2
8H	4H	25.3	26.1	25.6	26.4	26.8	26.1	26.9	26.5	27.2	27.6
	6H	26.0	26.8	26.5	27.2	27.7	26.9	27.6	27.3	28.0	28.5
	8H	26.3	27.1	26.8	27.5	28.0	27.1	27.8	27.6	28.3	28.8
	12H	26.3	26.9	26.8	27.4	27.9	27.1	27.7	27.6	28.2	28.7
12H	4H	25.4	26.2	25.9	26.6	27.0	26.2	27.0	26.7	27.4	27.8
	6H	26.2	26.9	26.7	27.4	27.9	27.0	27.7	27.5	28.2	28.7
	8H	26.3	26.9	26.8	27.4	27.9	27.1	27.7	27.6	28.2	28.7
variation of observer position											
S =	1.0H	+0.1/                      -0.2				+0.1/                      -0.1					
	1.5H	+0.3/                      -0.5				+0.2/                      -0.3					
	2.0H	+0.4/                      -0.8				+0.6/                      -0.7					
standard-table		BK05					BK05				
correction for luminaire		8.8					9.7				
correct glare indices for a total flux of 9680lm											

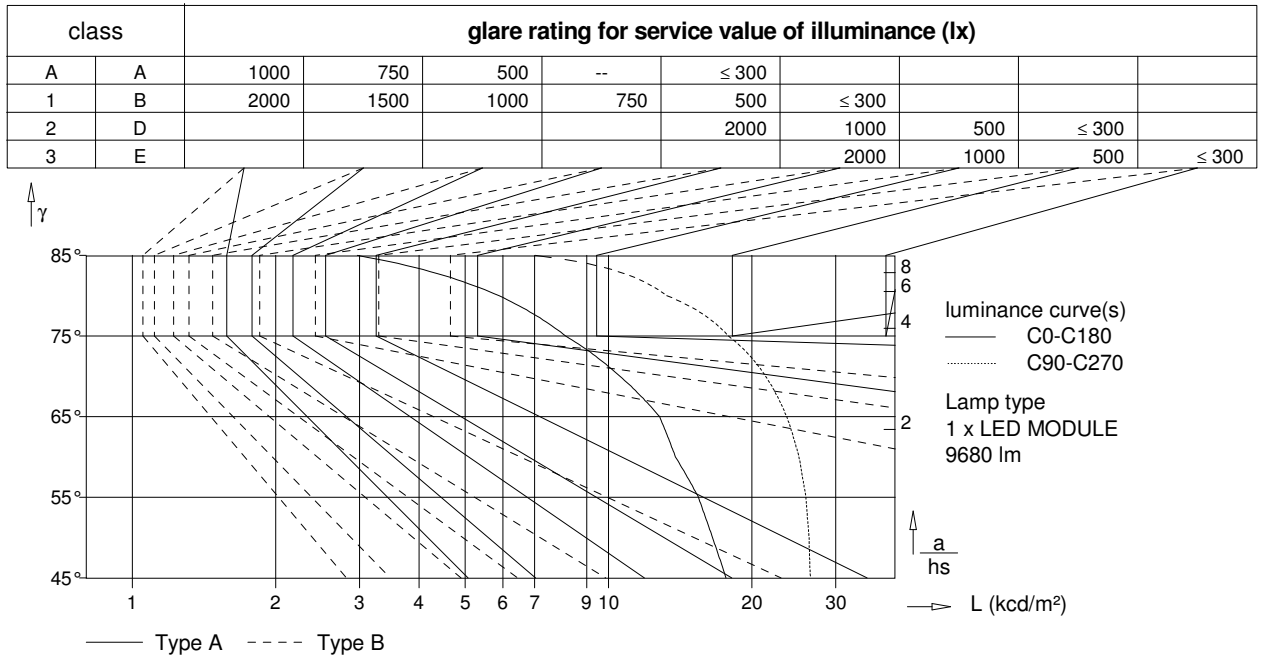


Table of intensities

gamma	C 0	C 90	C 180	C 270
45°	17652.2	26534.1	17652.2	26534.1
50°	16533.9	26372.1	16533.9	26372.1
55°	15442.0	25971.6	15442.0	25971.6
60°	13824.5	25116.9	13824.5	25116.9
65°	12800.8	23674.1	12800.8	23674.1
70°	10567.8	21385.3	10567.8	21385.3
75°	8130.9	17860.3	8130.9	17860.3
80°	5887.9	13252.4	5887.9	13252.4
85°	2968.7	7021.6	2968.7	7021.6

all values 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	58	66	74	79	87	92	95	100	103
70	30	20	50	59	67	72	80	86	90	95	99
70	10	20	45	53	61	67	75	81	86	92	96
50	50	20	56	64	72	77	83	88	91	96	98
50	30	20	49	57	65	70	78	83	87	92	95
50	10	20	44	52	60	66	74	79	83	89	93
30	50	20	55	62	69	74	80	85	88	92	94
30	30	20	49	56	64	69	76	81	84	89	92
30	10	20	44	52	59	65	72	77	81	86	90
0	0	0	42	49	56	61	68	73	77	82	85
BZ-class			5	5	5	5	5	5	5	5	5
SHRnom : 1.50						SHRmax : 1.673					

