

filename : MT50-LED-T5-CL-HO.LDT
 meas. number : 2911
 luminaire number : MT50 LED T5 CL HO
 date / operator : 19-03-2019

**default lamp type(s)**

no of lamps	lamp type	luminaire lumens	input wattage
1	LED MODULE	5630 lm	42.4 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

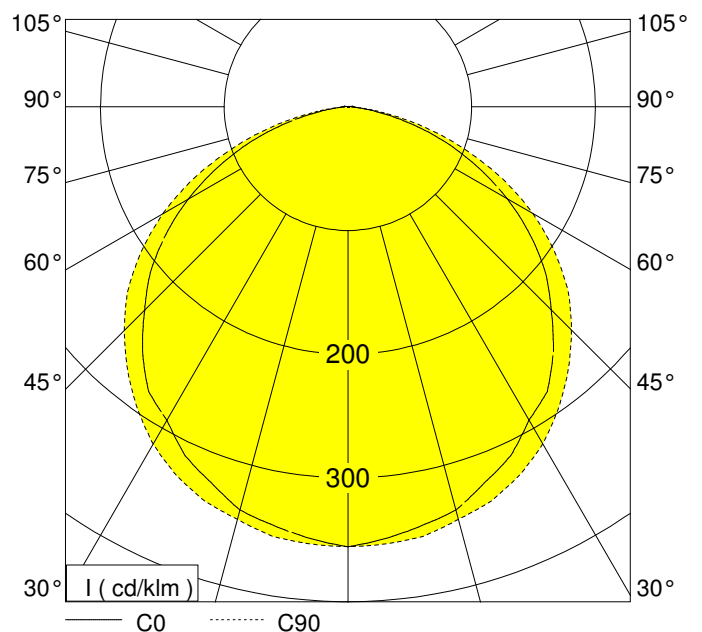
no of planes	: 7	samples / plane	: 37
first c-plane	: 0.0 °	first gamma-angle	: 0.0 °
step angle	: 15.0 °	step angle	: 5.0 °
last c-plane	: 90.0 °	last gamma-angle	: 180.0 °
symmetrics : symmetry to C0 / C90			

performance

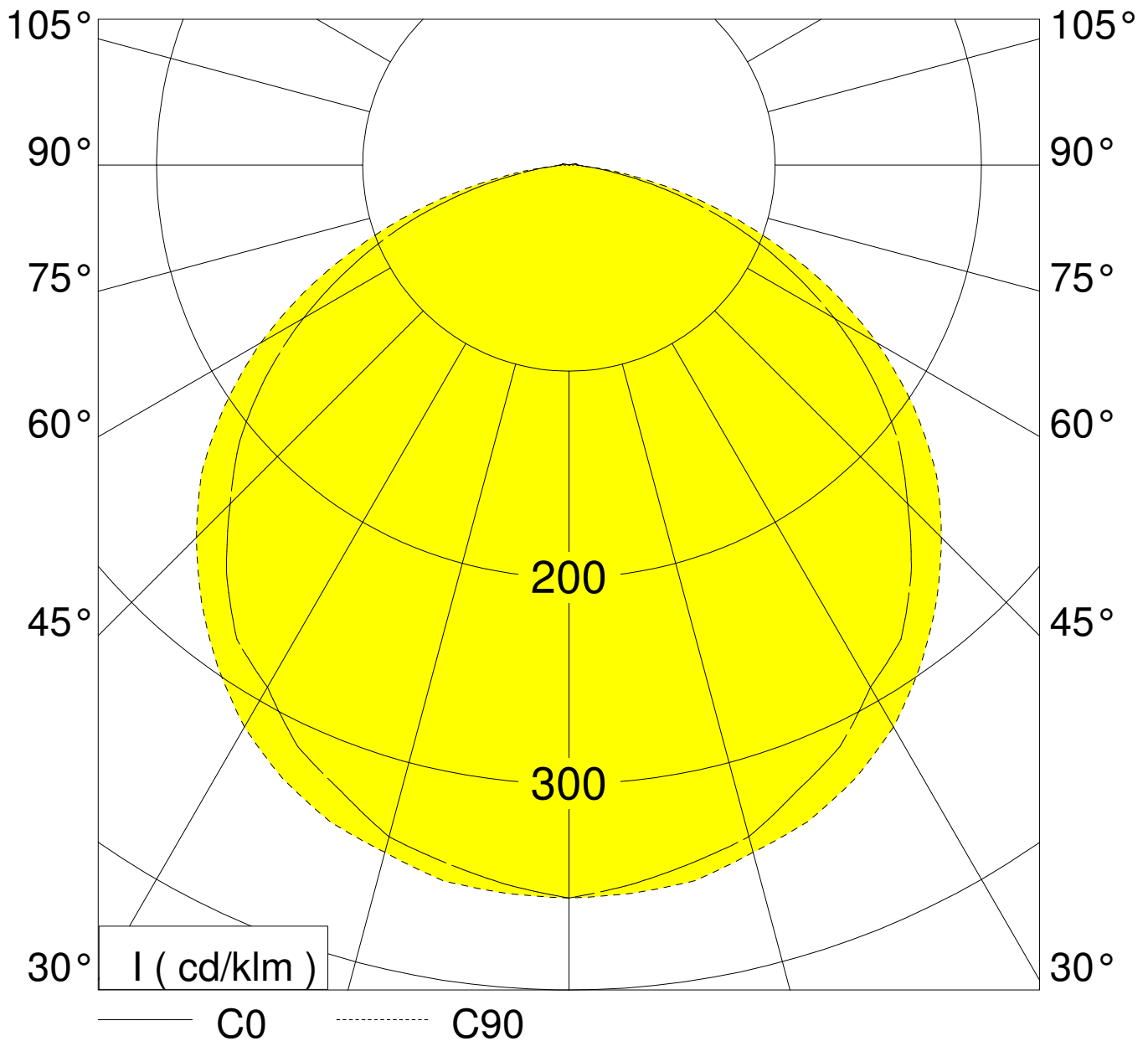
light output ratio : 100.0 %
 DFF : 99.6 %
 UFF : 0.4 %

classification

LiTG / DIN : A40
 UTE : 1.00D+0.00T 1.00E+0.00T
 CIE : 48 81 97 100 100
 BZ : 4 4 4 4 4 4 4 4 4 4
 Ambient Temperature : 25 degC
 Input Voltage : 240 V
 Circuit Watts : 42.4W
 Amps (running) : 0.184A
 V.A. : 44.17VA
 Power Factor : 0.96
 CCT : 4050K (measured); 4000K (declared)
 CRI (Ra) : 86
 S/P Ratio : 1.7
 Luminaire Lumens : 5630 LLm
 Output Current DC : 350mA
 Output Voltage DC : 111.2V
 Output Power : 38.92W
 Luminaire Lm/circ.Watt : 133 LLm/circ.Watt
 Driver Efficiency : 92%
 Driver Details : TRIDONIC LC50W 100-400mA
 FLEX C 1P EXC 280000680



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°	355.30	355.30	355.30	355.30	355.30	355.30	355.30
5.0°	350.00	350.00	350.00	351.10	352.20	353.20	354.30
10.0°	343.50	343.50	343.60	345.20	346.90	349.60	352.20
15.0°	337.10	337.10	337.10	337.30	337.40	341.20	344.90
20.0°	323.00	324.10	325.30	327.20	329.00	333.80	338.70
25.0°	311.00	311.10	311.30	314.80	318.30	323.20	328.20
30.0°	292.30	293.20	294.20	300.40	306.70	310.60	314.60
35.0°	280.70	278.80	277.00	280.80	284.50	290.70	296.80
40.0°	258.20	262.20	266.20	264.40	262.60	269.70	277.00
45.0°	232.20	234.70	237.20	238.40	239.60	247.50	255.40
50.0°	208.40	208.90	209.40	209.70	209.90	221.10	232.40
55.0°	179.50	180.90	182.30	186.50	190.60	197.20	203.80
60.0°	148.70	149.90	151.10	155.10	159.20	165.90	172.60
65.0°	116.30	116.90	117.60	119.80	121.90	129.90	137.80
70.0°	84.60	84.30	84.00	86.90	89.80	95.10	100.40
75.0°	52.10	52.10	52.10	53.80	55.50	60.10	64.80
80.0°	23.90	23.50	23.10	25.20	27.10	29.60	32.00
85.0°	6.90	6.80	6.80	7.70	8.70	8.30	8.00
90.0°	4.10	4.00	4.00	3.70	3.40	1.70	0.00
95.0°	3.30	3.20	3.10	3.00	2.80	1.40	0.00
100.0°	3.10	3.10	3.00	2.80	2.60	1.30	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	22.1	23.6	22.4	23.8	24.0	23.7	25.2	24.0	25.4	25.6
	3H	22.5	23.6	22.8	23.8	24.0	24.5	25.6	24.8	25.8	26.0
	4H	22.8	23.9	23.1	24.1	24.3	25.1	26.1	25.3	26.3	26.5
	6H	23.0	24.0	23.3	24.2	24.4	25.4	26.4	25.7	26.6	26.8
	8H	23.0	24.0	23.3	24.3	24.5	25.5	26.5	25.8	26.7	27.0
	12H	23.0	24.0	23.4	24.3	24.6	25.5	26.5	25.8	26.8	27.0
4H	2H	22.2	23.3	22.5	23.5	23.7	23.5	24.5	23.7	24.7	25.0
	3H	23.5	24.5	23.8	24.7	25.0	25.2	26.2	25.5	26.4	26.7
	4H	24.0	24.9	24.3	25.2	25.5	25.9	26.9	26.2	27.1	27.4
	6H	23.9	24.7	24.3	25.0	25.3	26.0	26.8	26.4	27.1	27.5
	8H	24.0	24.7	24.4	25.1	25.4	26.2	26.9	26.5	27.2	27.6
	12H	24.1	24.9	24.6	25.3	25.7	26.4	27.1	26.8	27.5	27.9
8H	4H	24.0	24.8	24.4	25.1	25.4	25.8	26.5	26.2	26.9	27.2
	6H	24.5	25.2	24.9	25.6	26.0	26.5	27.2	26.9	27.6	28.0
	8H	24.6	25.3	25.1	25.8	26.2	26.7	27.4	27.2	27.8	28.3
	12H	24.5	25.1	25.0	25.6	26.1	26.7	27.2	27.1	27.7	28.2
12H	4H	24.2	24.9	24.6	25.3	25.7	25.9	26.7	26.4	27.1	27.5
	6H	24.6	25.3	25.1	25.7	26.2	26.6	27.3	27.1	27.7	28.2
	8H	24.6	25.1	25.1	25.6	26.1	26.6	27.2	27.1	27.6	28.1
variation of observer position											
S =	1.0H	+0.2/ -0.3				+0.0/ -0.1					
	1.5H	+0.4/ -0.7				+0.3/ -0.4					
	2.0H	+0.8/ -1.4				+0.9/ -1.1					
standard-table		BK03					BK04				
correction for luminaire		6.6					9.0				
correct glare indices for a total flux of 5630lm											

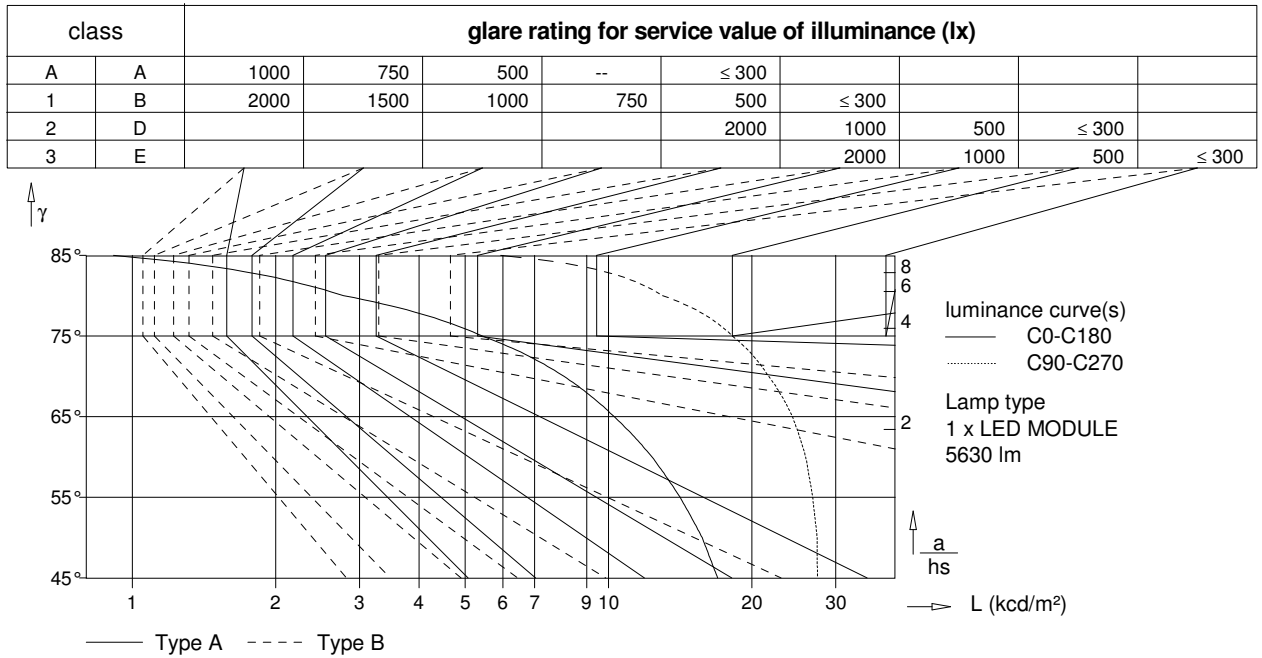


Table of intensities

gamma	C 0	C 90	C 180	C 270
45°	16941.9	27479.7	16941.9	27479.7
50°	15721.9	27418.3	15721.9	27418.3
55°	14129.2	26838.6	14129.2	26838.6
60°	12333.9	25942.4	12333.9	25942.4
65°	10276.9	24336.7	10276.9	24336.7
70°	8064.2	21693.3	8064.2	21693.3
75°	5435.5	18208.0	5435.5	18208.0
80°	2776.9	12994.9	2776.9	12994.9
85°	912.4	5937.4	912.4	5937.4

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	77	82	89	94	97	101	104
70	30	20	53	62	70	75	83	88	92	97	101
70	10	20	48	56	64	70	78	84	88	94	98
50	50	20	59	67	74	79	86	90	93	97	100
50	30	20	52	60	68	73	81	86	89	94	97
50	10	20	47	55	63	69	77	82	86	91	95
30	50	20	57	65	72	77	83	87	90	93	96
30	30	20	52	59	67	72	79	83	87	91	94
30	10	20	47	55	62	68	75	80	84	89	92
0	0	0	45	52	60	65	72	76	80	84	87
BZ-class			4	4	4	4	4	4	4	4	4
SHRnom : 1.50						SHRmax : 1.599					

