

filename : MT50-LED-T3-SC-HE.LDT
 meas. number : 2704
 luminaire number : MT50 LED T3 SC HE
 date / operator : 24-09-2018

**default lamp type(s)**

no of lamps	lamp type	luminaire lumens	input wattage
1	LED MODULE	1820 lm	14.7 W

dimensions

luminaire		luminous area	
length	: 945 mm	length	: 885 mm
width	: 55 mm	width	: 50 mm
height	: 55 mm	height	: 25 mm

coordinate system

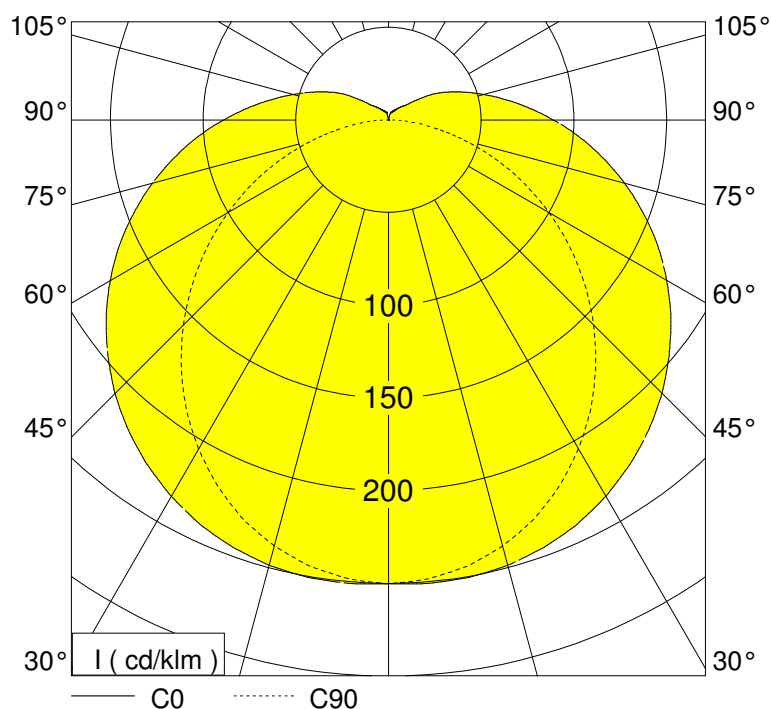
no of planes	: 7	samples / plane	: 37
first c-plane	: 0.0 °	first gamma-angle	: 0.0 °
step angle	: 15.0 °	step angle	: 5.0 °
last c-plane	: 90.0 °	last gamma-angle	: 180.0 °
symmetrics : symmetry to C0 / C90			

performance

light output ratio	: 100.0 %
DFF	: 89.1 %
UFF	: 10.9 %

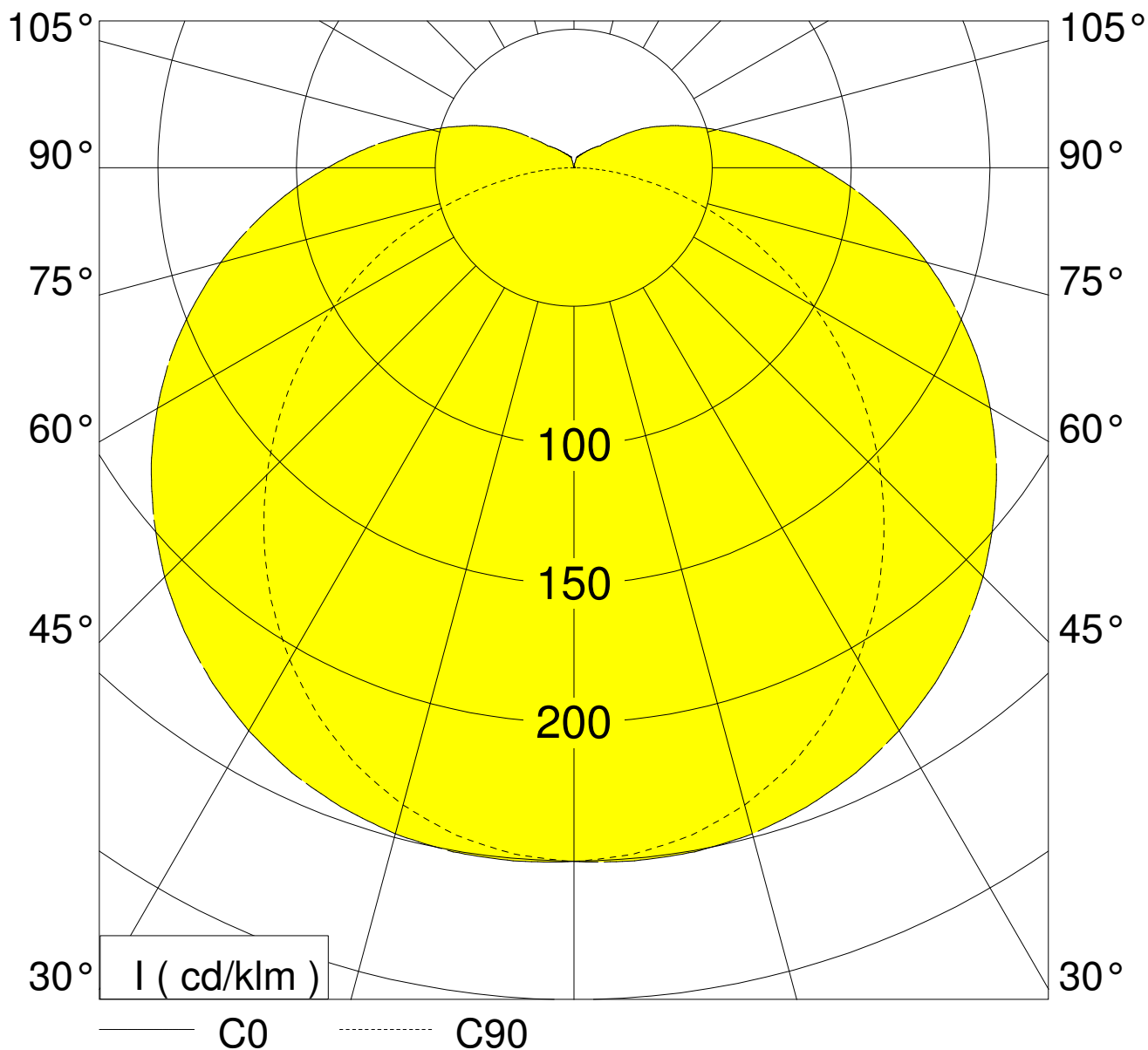
classification

LiTG / DIN	: B31
UTE	: 0.89G+0.11T
CIE	: 39 68 88 89 100
BZ	: 6 6 6 6 6 6 6 6 6
Ambient Temperature	: 25 degC
Input Voltage	: 240 V
Circuit Watts	: 14.7W
Amps (running)	: 0.074A
V.A.	: 17.71VA
Power Factor	: 0.83
CCT	: 4081K (measured): 4000K (declared)
CRI (Ra)	: 90
S/P Ratio	: 1.8
Luminaire Lumens	: 1820 LLm
Output Current DC	: 170 mA
Output Voltage DC	: 67.9V
Output Power	: 11.54W
Luminaire Lm/circ.Watt	: 124 LLm/circ.Watt
Driver Efficiency	: 78.5%
Driver Details	: TRIDONIC LC50W 100-400mA FLEX C1pEXC 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°	250.20	250.20	250.20	250.20	250.20	250.20	250.20
5.0°	250.90	250.50	250.00	249.50	249.10	248.70	248.40
10.0°	250.50	249.50	248.40	247.10	245.70	245.10	244.40
15.0°	248.70	246.90	245.10	242.70	240.30	239.10	237.90
20.0°	245.30	242.70	240.10	236.60	233.00	231.10	229.20
25.0°	240.70	237.20	233.70	228.70	223.60	220.80	218.00
30.0°	234.40	230.10	225.80	219.00	212.20	208.60	204.90
35.0°	227.00	221.80	216.50	207.90	199.40	194.90	190.30
40.0°	218.40	212.30	206.10	195.70	185.20	179.60	173.90
45.0°	208.70	201.70	194.90	182.40	169.90	163.20	156.50
50.0°	197.60	190.10	182.60	168.30	153.90	146.10	138.20
55.0°	186.00	177.50	169.10	153.10	137.00	128.10	119.30
60.0°	173.40	164.40	155.40	137.90	120.40	110.20	99.90
65.0°	160.30	150.80	141.40	122.60	103.90	92.30	80.60
70.0°	146.10	136.60	127.00	107.20	87.30	74.20	61.10
75.0°	131.80	122.30	112.90	92.30	71.70	57.00	42.30
80.0°	117.40	108.20	99.10	78.20	57.40	41.20	25.20
85.0°	103.10	94.30	85.50	65.10	44.70	28.10	11.40
90.0°	88.90	80.80	72.70	53.50	34.30	17.20	0.00
95.0°	75.90	68.40	61.00	43.50	26.10	13.00	0.00
100.0°	63.80	57.20	50.60	35.20	19.80	9.90	0.00
105.0°	53.10	47.20	41.30	28.10	14.90	7.40	0.00
110.0°	43.80	38.80	33.70	21.60	9.60	4.80	0.00
115.0°	35.70	31.20	26.70	16.60	6.40	3.20	0.00
120.0°	28.10	23.40	18.60	12.10	5.60	2.80	0.00
125.0°	18.90	15.70	12.50	8.70	5.00	2.50	0.00
130.0°	12.50	11.00	9.60	7.00	4.50	2.20	0.00
135.0°	10.20	9.10	7.90	6.00	4.10	2.10	0.00
140.0°	8.40	7.60	6.80	5.40	4.00	2.00	0.00
145.0°	6.90	6.30	5.80	4.70	3.60	1.80	0.00
150.0°	5.80	5.40	5.10	2.60	0.00	0.00	0.00
155.0°	5.10	4.80	4.50	2.20	0.00	0.00	0.00
160.0°	4.40	4.20	4.00	2.00	0.00	0.00	0.00
165.0°	4.00	3.70	3.50	1.70	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	19.7	21.1	20.1	21.5	21.9	18.6	20.0	19.0	20.4	20.8
	3H	21.5	22.7	21.9	23.1	23.5	19.8	21.0	20.2	21.4	21.8
	4H	22.6	23.8	23.0	24.2	24.7	20.4	21.6	20.9	22.1	22.5
	6H	23.6	24.7	24.1	25.2	25.7	20.9	22.0	21.3	22.5	23.0
	8H	24.1	25.3	24.6	25.8	26.3	21.1	22.2	21.6	22.7	23.2
	12H	24.7	25.8	25.2	26.3	26.8	21.2	22.3	21.7	22.8	23.4
4H	2H	20.0	21.2	20.5	21.6	22.1	19.1	20.4	19.6	20.8	21.2
	3H	22.5	23.6	23.0	24.1	24.6	21.0	22.1	21.5	22.6	23.1
	4H	23.8	24.9	24.3	25.4	26.0	21.8	22.9	22.4	23.5	24.0
	6H	24.8	25.7	25.4	26.3	26.9	22.2	23.2	22.8	23.7	24.3
	8H	25.4	26.3	26.0	26.9	27.5	22.5	23.3	23.1	23.9	24.6
	12H	26.1	27.0	26.8	27.6	28.3	22.8	23.6	23.4	24.3	25.0
8H	4H	23.9	24.8	24.5	25.4	26.0	22.2	23.1	22.8	23.7	24.3
	6H	25.6	26.4	26.3	27.1	27.9	23.3	24.1	24.0	24.8	25.6
	8H	26.5	27.3	27.2	28.0	28.8	23.8	24.6	24.5	25.3	26.1
	12H	27.1	27.8	27.8	28.5	29.3	24.0	24.6	24.7	25.3	26.2
12H	4H	24.1	24.9	24.7	25.6	26.3	22.5	23.4	23.2	24.0	24.8
	6H	25.8	26.6	26.5	27.3	28.2	23.7	24.5	24.4	25.2	26.0
	8H	26.5	27.2	27.2	27.9	28.8	24.0	24.7	24.7	25.4	26.2
variation of observer position											
S =	1.0H	+0.1/			-0.1		+0.1/		-0.1		
	1.5H	+0.2/			-0.2		+0.2/		-0.3		
	2.0H	+0.2/			-0.3		+0.3/		-0.5		
standard-table		BK09					BK07				
correction for luminaire		9.9					6.7				
correct glare indices for a total flux of 1820lm											

class		glare rating for service value of illuminance (lx)								
A	A	1000	750	500	--	≤ 300				
1	B	2000	1500	1000	750	500	≤ 300			
2	D					2000	1000	500	≤ 300	
3	E						2000	1000	500	≤ 300

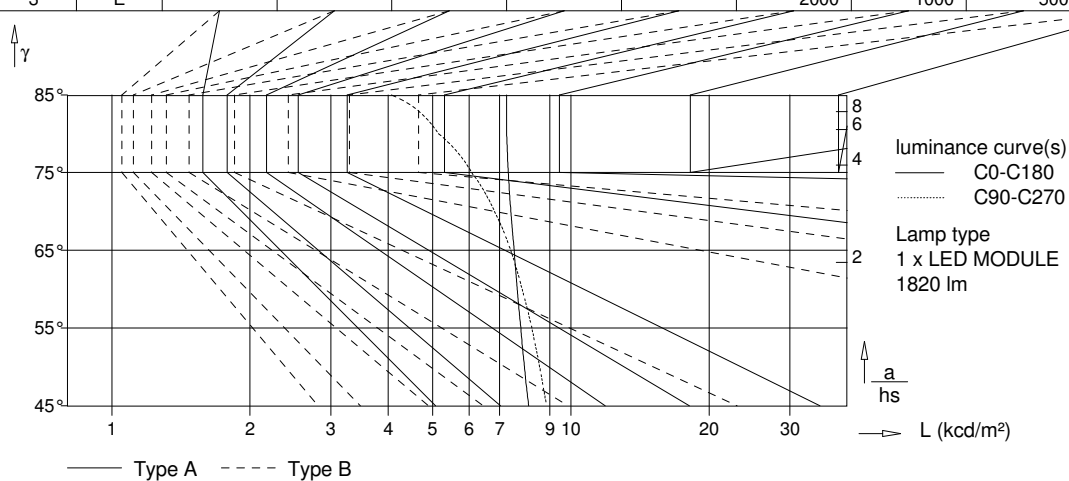


Table of intensities

gamma	C 0	C 90	C 180	C 270
45°	8092.9	8853.0	8092.9	8853.0
50°	7922.8	8555.0	7922.8	8555.0
55°	7781.3	8223.0	7781.3	8223.0
60°	7644.0	7834.4	7644.0	7834.4
65°	7528.4	7396.1	7528.4	7396.1
70°	7401.6	6818.4	7401.6	6818.4
75°	7308.0	6081.0	7308.0	6081.0
80°	7249.7	5144.6	7249.7	5144.6
85°	7245.6	4066.7	7245.6	4066.7

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	52	60	67	72	79	84	88	92	96
70	30	20	44	51	59	64	72	78	82	87	91
70	10	20	38	45	53	58	66	72	77	83	87
50	50	20	49	56	63	67	74	79	82	86	89
50	30	20	42	49	56	61	68	73	77	82	86
50	10	20	37	44	51	56	63	69	73	79	83
30	50	20	47	53	59	64	70	74	77	81	84
30	30	20	40	47	54	58	65	69	73	77	81
30	10	20	36	42	49	54	61	66	69	74	78
0	0	0	33	38	45	49	55	60	63	68	71
BZ-class			6	6	6	6	6	6	6	6	6
SHRnom : 1.50						SHRmax : 1.718					

