

filename : Trident 112 Ledlite-semi.ldt
 meas. number : 3250
 luminaire number : Trident 112 Ledlite-semi
 date / operator : 23-09-2020



default lamp type(s)

no of lamps	lamp type	luminaire lumens	input wattage
1	LED MODULE	3412 lm (mains operation) 535 lm emergency operation	24.3 W

dimensions

luminaire		luminous area	
length	: 1230 mm	length	: 1220 mm
width	: 80 mm	width	: 70 mm
height	: 80 mm	height	: 30 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		

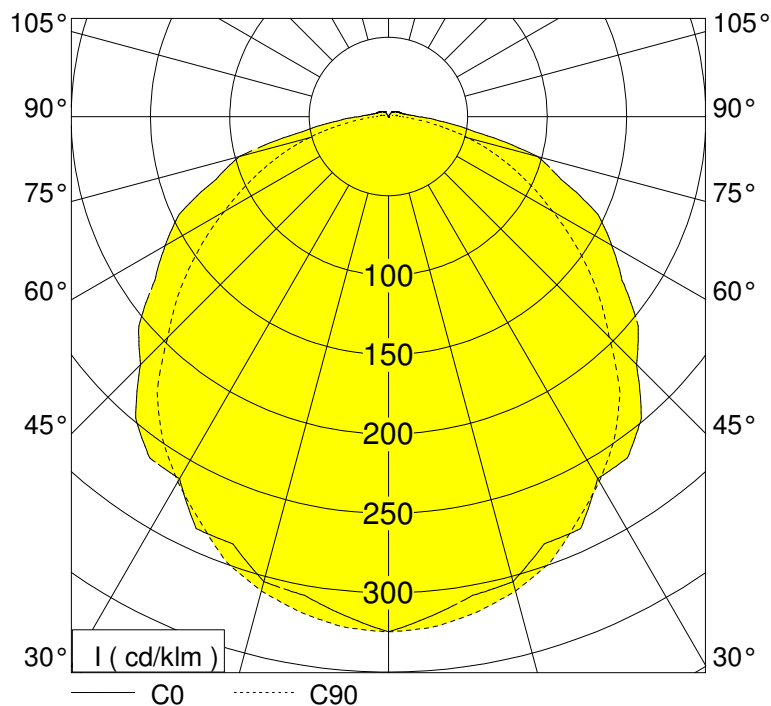
performance

light output ratio	: 100.0 %
DFF	: 96.7 %
UFF	: 3.3 %

classification

LiTG / DIN	: A41
UTE	: 0.97E+0.03T
CIE	: 44 74 92 97 100
BZ	: 5 5 5 5 5 5 5 5

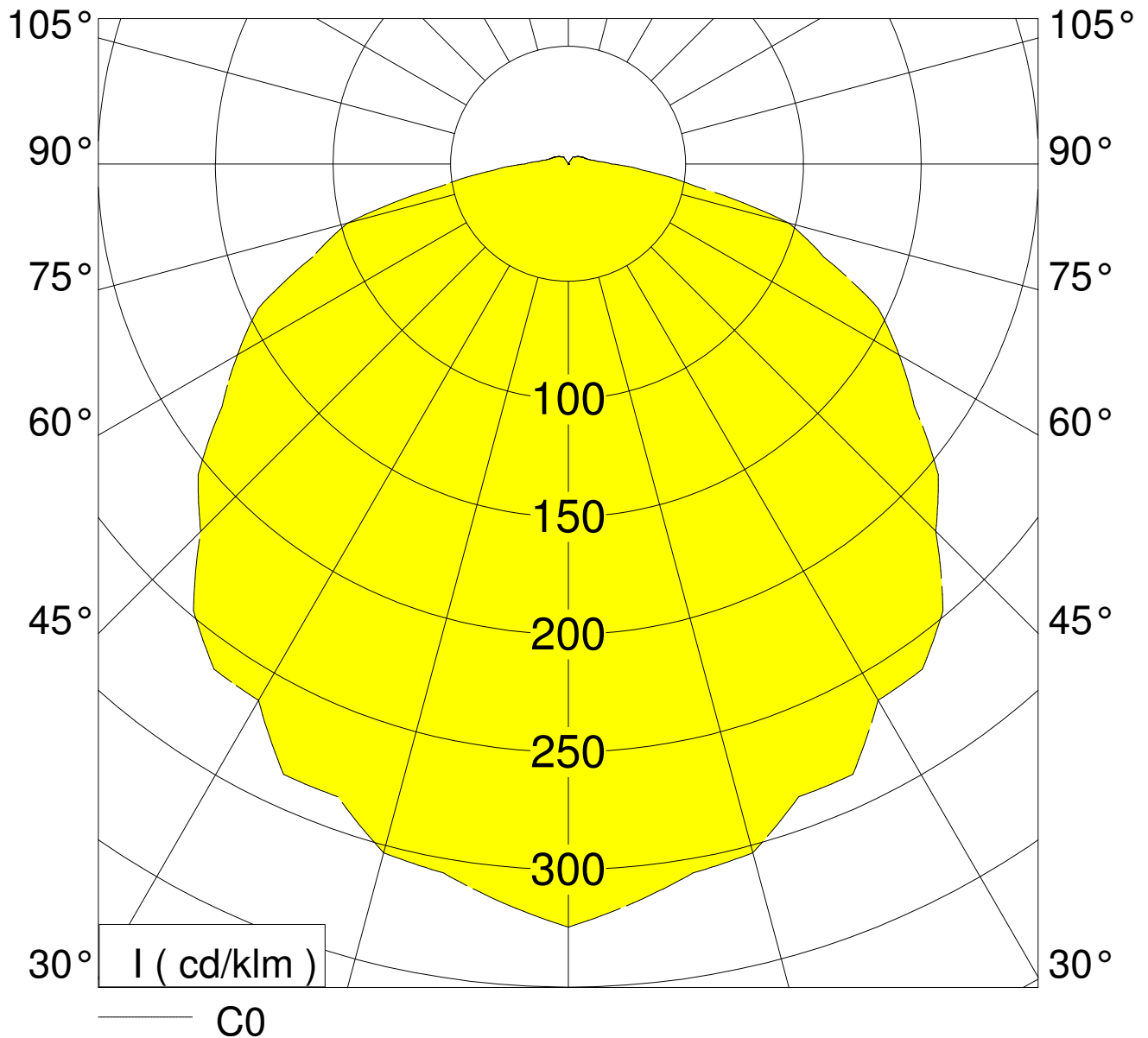
Ambient Temperature : 25 degC
 Input Voltage : 240 V
 Circuit Watts : 24.3W
 Amps (running) : 0.107A
 V.A. : 25.6VA
 Power Factor : 0.95
 CCT : 4094K (measured): 4000K (declared)
 CRI (Ra) : 84
 S/P Ratio : 1.7
 Luminaire Lumens : 3412 LLm
 Output Current DC : 590mA
 Output Voltage DC : 35.7V
 Output Power : 21.06W
 Luminaire Lm/circ.Watt : 140 LLm/circ.Watt
 Driver Efficiency : 87%
 Driver Details : POWERLAND PLD00224-1SCH83-600



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°	324.30	324.30	324.30	324.30	324.30	324.30	324.30
5.0°	315.30	315.30	315.30	323.50	331.60	327.00	322.50
10.0°	305.90	308.20	310.40	312.70	314.90	315.90	316.90
15.0°	303.00	301.80	300.70	304.50	308.30	308.60	309.00
20.0°	286.20	291.00	295.80	295.60	295.40	296.80	298.30
25.0°	286.20	282.00	277.80	279.40	280.90	280.90	280.90
30.0°	263.20	265.30	267.30	266.20	265.10	265.20	265.30
35.0°	262.20	261.00	259.70	251.90	244.00	245.90	247.80
40.0°	247.70	244.10	240.50	231.90	223.30	225.00	226.60
45.0°	220.80	224.50	228.20	218.80	209.40	203.00	196.50
50.0°	205.20	204.40	203.60	193.20	182.90	177.50	172.00
55.0°	179.50	180.40	181.40	171.80	162.00	153.80	145.60
60.0°	162.30	160.20	158.00	147.50	137.00	128.20	119.40
65.0°	145.40	142.80	140.30	128.00	115.70	105.70	95.70
70.0°	115.50	115.80	116.10	105.40	94.50	84.10	73.80
75.0°	97.10	96.50	95.90	84.90	74.00	62.80	51.70
80.0°	55.10	64.00	72.90	63.60	54.20	42.40	30.70
85.0°	32.60	39.80	47.10	41.90	36.60	25.60	14.50
90.0°	18.50	21.90	25.20	24.40	23.70	15.50	7.40
95.0°	12.70	13.90	15.00	14.90	14.90	10.20	5.50
100.0°	9.80	10.30	10.90	10.80	10.80	7.70	4.70
105.0°	8.20	8.40	8.60	7.90	7.20	5.70	4.10
110.0°	7.40	7.30	7.20	6.20	5.10	2.50	0.00
115.0°	6.80	6.60	6.40	5.30	4.10	2.10	0.00
120.0°	6.00	5.90	5.70	4.60	3.50	1.80	0.00
125.0°	5.50	5.20	4.90	2.40	0.00	0.00	0.00
130.0°	4.90	4.60	4.30	2.10	0.00	0.00	0.00
135.0°	4.30	4.10	3.90	2.00	0.00	0.00	0.00
140.0°	3.90	3.80	3.70	1.90	0.00	0.00	0.00
145.0°	3.70	1.90	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	20.1	21.6	20.4	21.9	22.2	19.9	21.4	20.2	21.7	21.9
	3H	21.0	22.0	21.2	22.2	22.5	20.5	21.6	20.8	21.8	22.0
	4H	21.7	22.7	22.0	23.0	23.2	21.2	22.2	21.5	22.4	22.7
	6H	22.1	23.1	22.5	23.4	23.6	21.6	22.6	21.9	22.8	23.1
	8H	22.3	23.3	22.6	23.6	23.8	21.8	22.7	22.1	23.0	23.3
	12H	22.4	23.4	22.8	23.7	24.0	21.9	22.9	22.2	23.1	23.4
4H	2H	20.0	21.0	20.3	21.2	21.5	19.8	20.8	20.1	21.1	21.3
	3H	21.9	22.9	22.3	23.2	23.4	21.5	22.5	21.9	22.8	23.0
	4H	22.9	23.8	23.2	24.1	24.4	22.3	23.3	22.7	23.6	23.9
	6H	23.3	24.1	23.7	24.4	24.7	22.7	23.5	23.1	23.8	24.1
	8H	23.5	24.2	23.9	24.5	24.9	22.9	23.7	23.3	24.0	24.3
	12H	23.7	24.4	24.1	24.8	25.2	23.2	23.9	23.6	24.2	24.6
8H	4H	23.0	23.7	23.4	24.1	24.4	22.5	23.3	22.9	23.6	24.0
	6H	24.0	24.7	24.4	25.0	25.5	23.5	24.1	23.9	24.5	24.9
	8H	24.4	25.0	24.8	25.4	25.9	23.8	24.5	24.3	24.9	25.3
	12H	24.5	25.0	25.0	25.4	25.9	24.0	24.5	24.4	24.9	25.4
12H	4H	23.1	23.8	23.6	24.2	24.6	22.7	23.4	23.1	23.8	24.2
	6H	24.2	24.8	24.6	25.2	25.6	23.6	24.3	24.1	24.7	25.1
	8H	24.4	24.9	24.9	25.4	25.8	23.9	24.4	24.4	24.9	25.3
variation of observer position											
S =	1.0H	+0.1/ -0.1				+0.1/ -0.1					
	1.5H	+0.2/ -0.3				+0.2/ -0.3					
	2.0H	+0.3/ -0.5				+0.4/ -0.6					
standard-table		BK06					BK06				
correction for luminaire		7.4					7.0				
correct glare indices for a total flux of 3412lm											

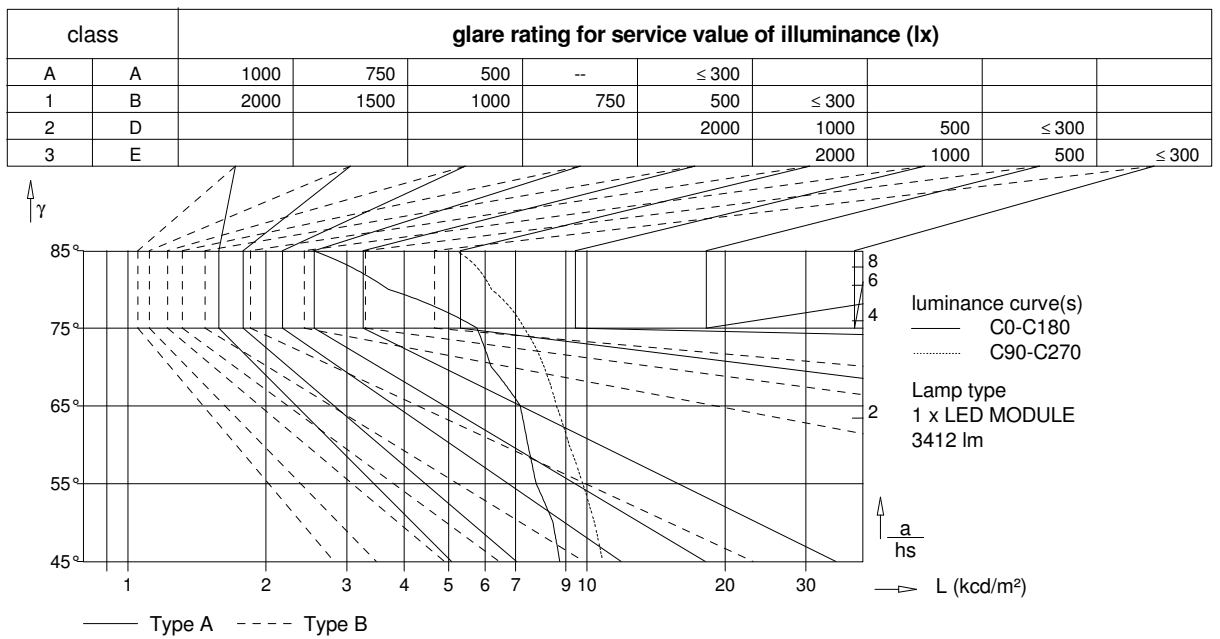


Table of Luminance

gamma	C 0	C 90	C 180	C 270
45°	8733.0	10836.2	8733.0	10836.2
50°	8442.4	10386.5	8442.4	10386.5
55°	7756.1	9797.9	7756.1	9797.9
60°	7443.5	9151.1	7443.5	9151.1
65°	7162.7	8594.0	7162.7	8594.0
70°	6196.2	8075.4	6196.2	8075.4
75°	5766.2	7309.9	5766.2	7309.9
80°	3695.5	6199.0	3695.5	6199.0
85°	2533.5	5188.6	2533.5	5188.6

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	57	65	72	77	85	89	93	98	101
70	30	20	49	57	65	70	78	84	88	93	97
70	10	20	44	51	59	65	73	79	83	89	93
50	50	20	55	63	69	74	81	85	89	93	96
50	30	20	48	56	63	68	75	80	84	89	93
50	10	20	43	50	58	63	71	76	80	86	90
30	50	20	53	60	67	71	77	82	85	89	91
30	30	20	47	54	61	66	73	78	81	86	89
30	10	20	43	50	57	62	69	74	78	83	86
0	0	0	40	47	53	58	65	70	73	78	81
BZ-class			5	5	5	5	5	5	5	5	5
SHRnom : 1.50						SHRmax : 1.608					

