

filename : TRIDENT-215-LEDLITE-SEMI.ltd  
 meas. number : 3288  
 luminaire number : TRIDENT-215-LEDLITE-SEMI  
 date / operator : 28-10-2020

luminaire documentation

**default lamp type(s)**

no of lamps	lamp type	luminaire lumens	input wattage
1	LED MODULE	7540 lm (mains operation) 455 lm (emergency operation)	54.9 W

**dimensions**

luminaire		luminous area	
length	: 1530 mm	length	: 1515 mm
width	: 100 mm	width	: 85 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		

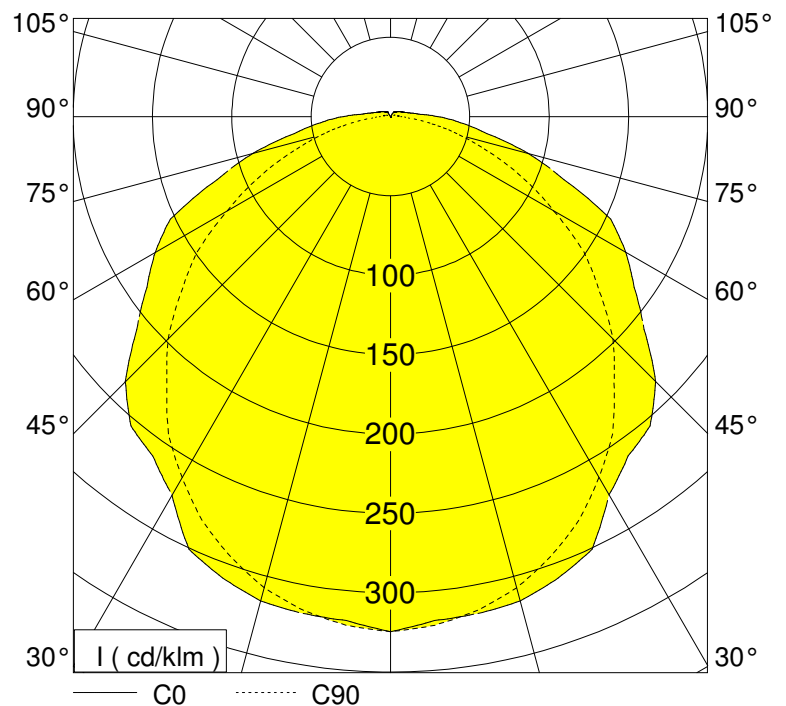
**performance**

light output ratio : 100.0 %  
 DFF : 96.6 %  
 UFF : 3.4 %

**classification**

LiTG / DIN : A41  
 UTE : 0.97E+0.03T  
 CIE : 45 75 93 97 100  
 BZ : 5 5 5 5 5 5 5 5

**Ambient Temperature** : 25 degC  
**Input Voltage** : 240 V  
**Circuit Watts** : 54.9W  
**Amps (running)** : 0.236A  
**V.A.** : 56.60VA  
**Power Factor** : 0.97  
**CCT** : 3937K (measured): 4000K (declared)  
**CRI (Ra)** : 86  
**S/P Ratio** : 1.7  
**Luminaire Lumens** : 7540 LLm (mains)  
                           : 455 LLm (emergency)  
**Output Current DC** : 1430mA  
**Output Voltage DC** : 34.8V  
**Output Power** : 49.16W  
**Luminaire Lm/circ.Watt** : 137 LLm/circ.Watt  
**Driver Efficiency** : 90%  
**Driver Details** : POWERLAND PLD060-1SCH83-1400



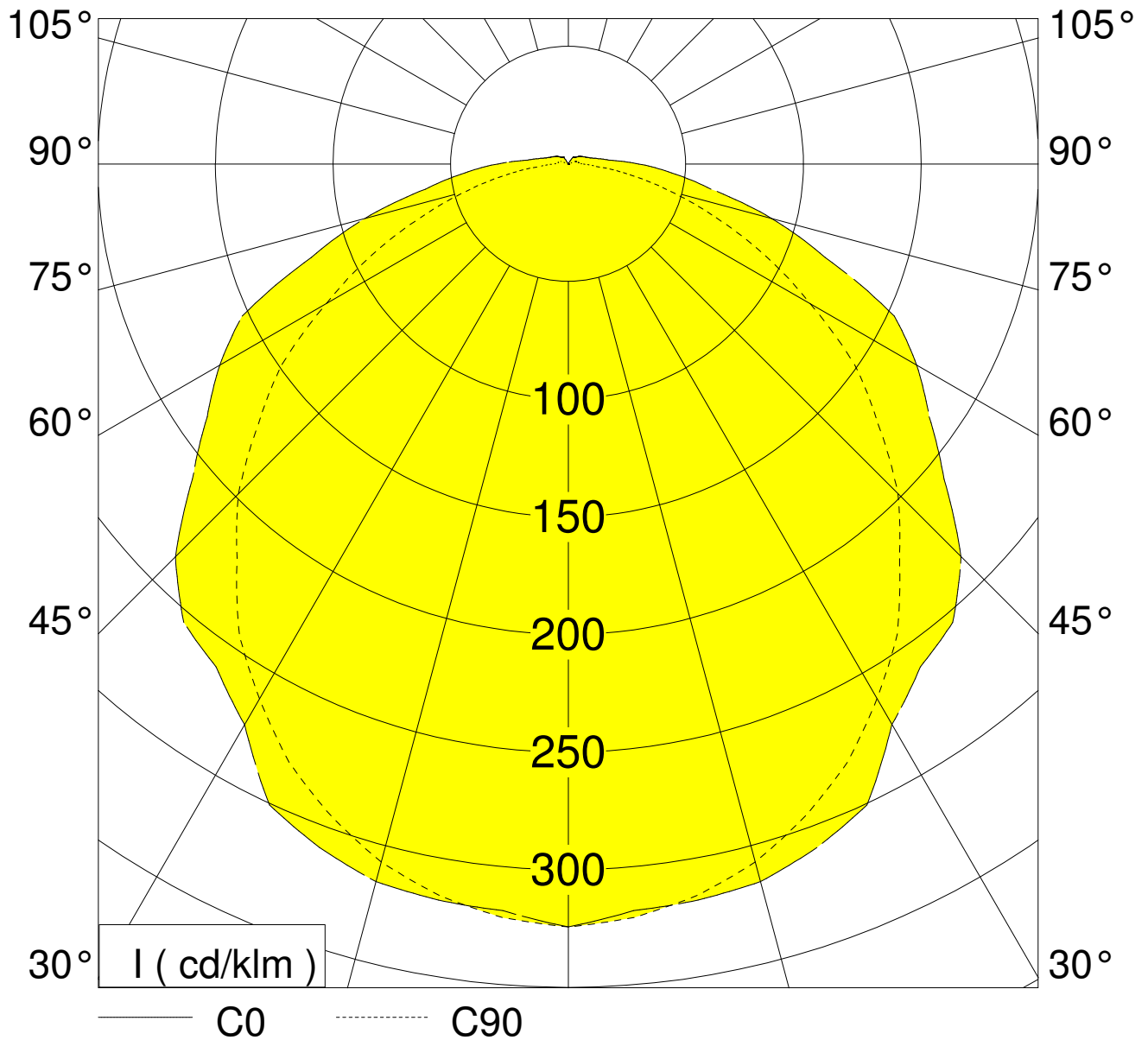
Measurements made are in absolute units. The luminaire is treated as if it was a lamp as it is not possible to measure each LED separately - hence an LOR of 100%

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°	324.10	324.10	324.10	324.10	324.10	324.10	324.10
5.0°	318.40	320.80	323.20	322.70	322.20	321.70	321.30
10.0°	317.50	318.90	320.30	318.40	316.50	316.00	315.50
15.0°	315.60	316.00	316.50	309.30	302.10	304.60	307.00
20.0°	309.00	306.50	304.00	298.30	292.70	293.70	294.70
25.0°	300.40	298.40	296.30	290.30	284.10	282.30	280.50
30.0°	275.00	277.80	280.70	273.80	266.90	264.60	262.30
35.0°	260.80	257.50	254.40	251.60	248.80	246.30	243.70
40.0°	254.20	246.90	239.60	235.70	231.80	225.40	218.90
45.0°	236.00	230.70	225.40	216.80	208.30	203.20	198.10
50.0°	208.40	207.70	207.00	194.50	181.90	177.00	171.90
55.0°	187.20	183.30	179.40	167.40	155.40	152.00	148.50
60.0°	171.00	164.30	157.60	145.10	132.70	125.70	118.60
65.0°	152.90	145.20	137.60	124.10	110.60	101.50	92.50
70.0°	116.20	118.40	120.70	105.00	89.40	78.20	66.90
75.0°	89.50	88.50	87.50	77.20	66.90	56.00	45.00
80.0°	61.60	62.20	62.90	54.80	46.70	36.70	26.70
85.0°	44.10	43.00	41.80	36.80	31.90	21.90	12.00
90.0°	29.90	29.10	28.20	24.60	21.10	13.60	5.90
95.0°	18.00	18.60	19.30	16.60	14.00	9.40	4.80
100.0°	13.00	13.30	13.70	11.20	8.80	6.40	4.10
105.0°	9.90	10.10	10.40	8.30	6.20	4.90	3.60
110.0°	8.30	8.20	8.10	6.40	4.60	4.00	3.30
115.0°	7.30	7.00	6.70	5.20	3.70	1.90	0.00
120.0°	6.40	5.60	4.80	4.10	3.30	1.70	0.00
125.0°	5.70	5.20	4.80	2.40	0.00	0.00	0.00
130.0°	4.70	4.30	3.80	1.90	0.00	0.00	0.00
135.0°	4.00	3.80	3.50	1.80	0.00	0.00	0.00
140.0°	3.60	1.80	0.00	0.00	0.00	0.00	0.00
145.0°	3.60	1.80	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	21.8	23.3	22.1	23.5	23.8	21.2	22.7	21.5	23.0	23.3
	3H	22.7	23.7	22.9	23.9	24.2	21.8	22.8	22.0	23.0	23.3
	4H	23.3	24.4	23.6	24.6	24.8	22.3	23.3	22.6	23.6	23.8
	6H	23.8	24.8	24.1	25.0	25.3	22.6	23.6	23.0	23.9	24.1
	8H	24.0	25.0	24.3	25.2	25.5	22.8	23.7	23.1	24.0	24.3
	12H	24.2	25.2	24.6	25.4	25.7	22.9	23.9	23.2	24.1	24.4
4H	2H	21.6	22.6	21.9	22.8	23.1	21.1	22.2	21.4	22.4	22.6
	3H	23.6	24.5	23.9	24.8	25.1	22.8	23.7	23.1	24.0	24.3
	4H	24.5	25.4	24.8	25.7	26.0	23.5	24.4	23.9	24.7	25.0
	6H	24.9	25.6	25.2	26.0	26.3	23.8	24.5	24.2	24.9	25.2
	8H	25.1	25.8	25.5	26.2	26.5	24.0	24.7	24.4	25.0	25.4
	12H	25.4	26.1	25.9	26.5	26.9	24.2	24.9	24.6	25.2	25.6
8H	4H	24.5	25.2	24.9	25.6	25.9	23.7	24.4	24.1	24.7	25.1
	6H	25.5	26.1	25.9	26.5	27.0	24.5	25.2	24.9	25.6	26.0
	8H	25.9	26.5	26.4	26.9	27.4	24.9	25.5	25.3	25.9	26.3
	12H	26.1	26.6	26.6	27.1	27.5	25.0	25.5	25.4	25.9	26.4
12H	4H	24.7	25.3	25.1	25.7	26.1	23.8	24.5	24.3	24.9	25.3
	6H	25.6	26.2	26.1	26.7	27.1	24.7	25.3	25.1	25.7	26.2
	8H	25.9	26.4	26.4	26.9	27.3	24.9	25.4	25.4	25.9	26.3
variation of observer position											
S =	1.0H	+0.1/		-0.1		+0.1/		-0.1			
	1.5H	+0.2/		-0.3		+0.2/		-0.4			
	2.0H	+0.3/		-0.4		+0.4/		-0.7			
standard-table		BK06					BK06				
correction for luminaire		9.1					8.2				
correct glare indices for a total flux of 7540lm											

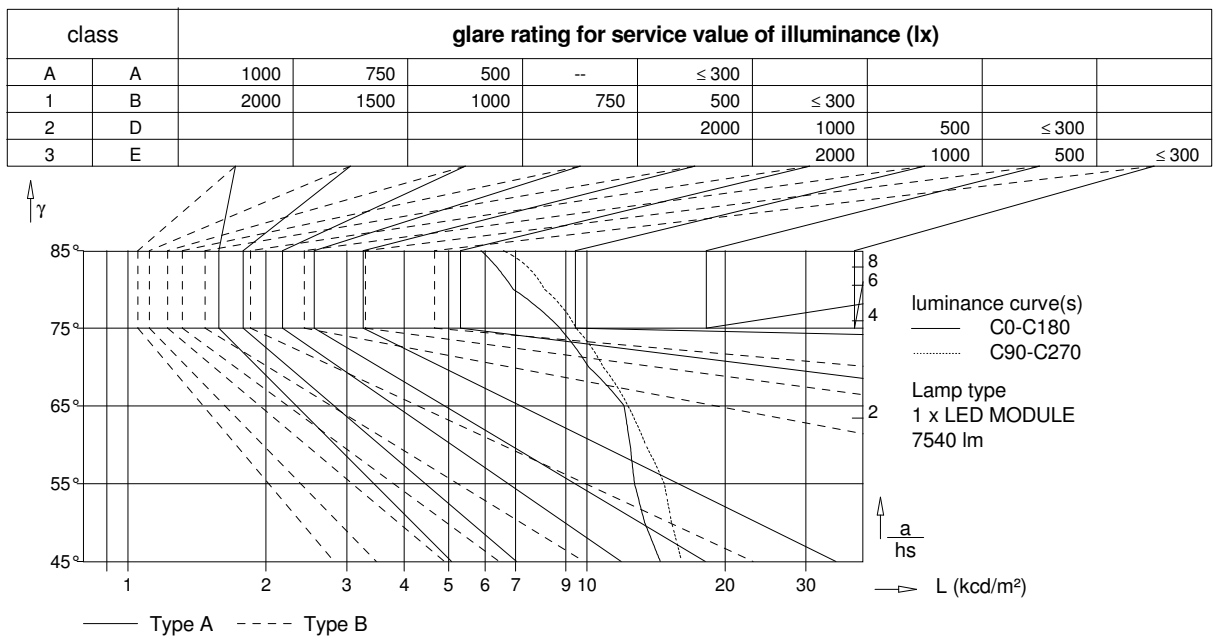


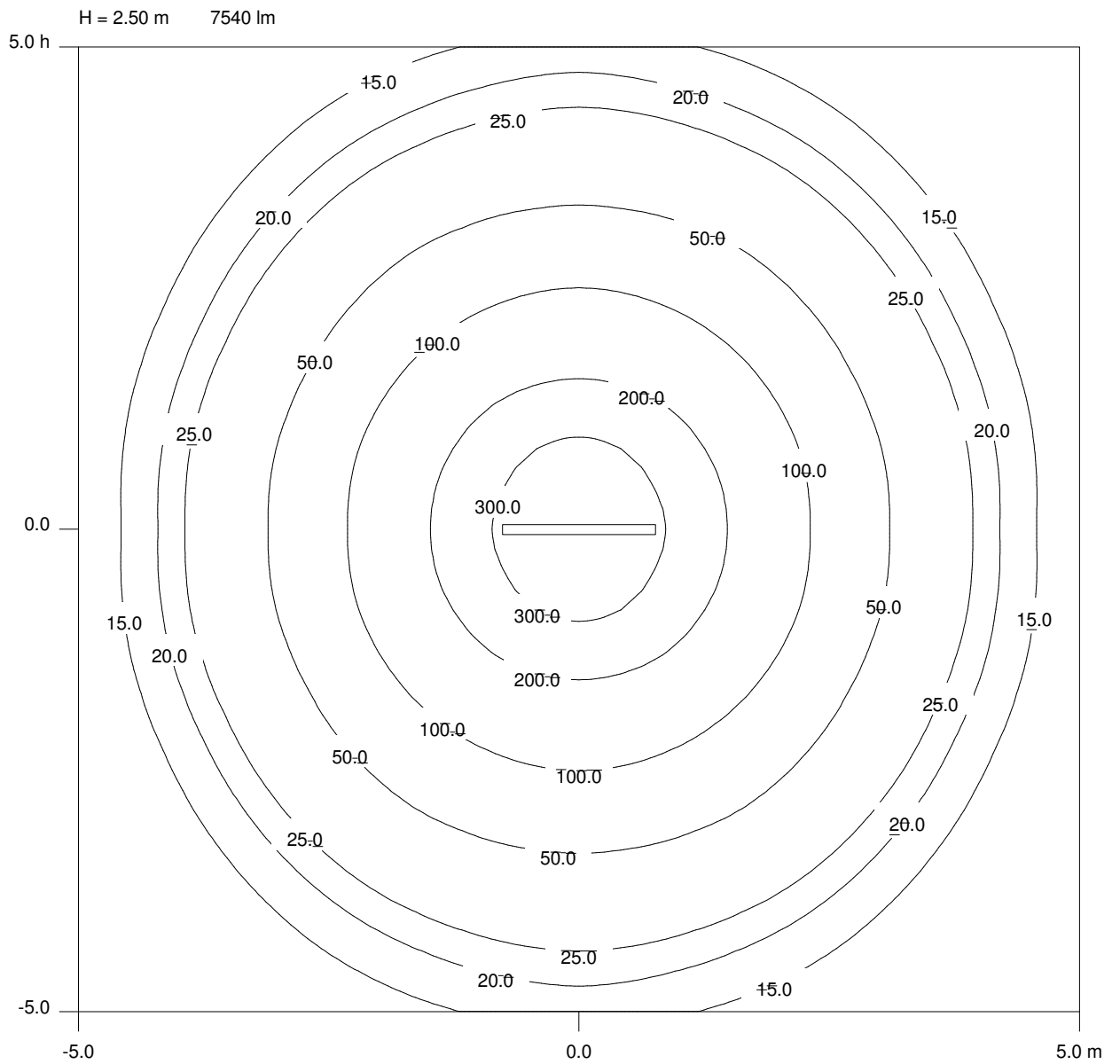
Table of Luminance

gamma	C 0	C 90	C 180	C 270
45°	14444.0	16085.1	14444.0	16085.1
50°	13362.6	15297.4	13362.6	15297.4
55°	12705.5	14742.2	12705.5	14742.2
60°	12427.6	13427.9	12427.6	13427.9
65°	12057.5	12293.4	12057.5	12293.4
70°	10099.4	10861.9	10099.4	10861.9
75°	8737.8	9479.6	8737.8	9479.6
80°	6919.8	8093.9	6919.8	8093.9
85°	5885.1	6573.8	5885.1	6573.8

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	57	66	73	78	85	90	93	98	101
70	30	20	50	58	65	71	79	84	88	93	97
70	10	20	44	52	60	65	73	79	83	89	94
50	50	20	55	63	70	75	81	86	89	93	96
50	30	20	49	56	64	69	76	81	85	90	93
50	10	20	44	51	58	64	71	77	81	86	90
30	50	20	54	61	67	72	78	82	85	89	92
30	30	20	48	55	62	67	73	78	81	86	89
30	10	20	43	50	57	62	70	75	78	83	87
0	0	0	41	47	54	59	66	70	74	78	81
BZ-class			5	5	5	5	5	5	5	5	5
SHRnom : 1.50						SHRmax : 1.621					

## MAINS OPERATION



## EMERGENCY OPERATION

