

filename : TRIDENT-212-LEDLITE-SEMI.ltd
 meas. number : 3255
 luminaire number : TRIDENT-212-LEDLITE-SEMI
 date / operator : 14-10-2020

luminaire documentation

**default lamp type(s)**

no of lamps	lamp type	luminaire lumens	input wattage
1	LED MAINS MODULE	6840 lm (mains) 503 lm (emergency)	50.1 W

dimensions

luminaire		luminous area	
length	: 1230 mm	length	: 1220 mm
width	: 100 mm	width	: 90 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		

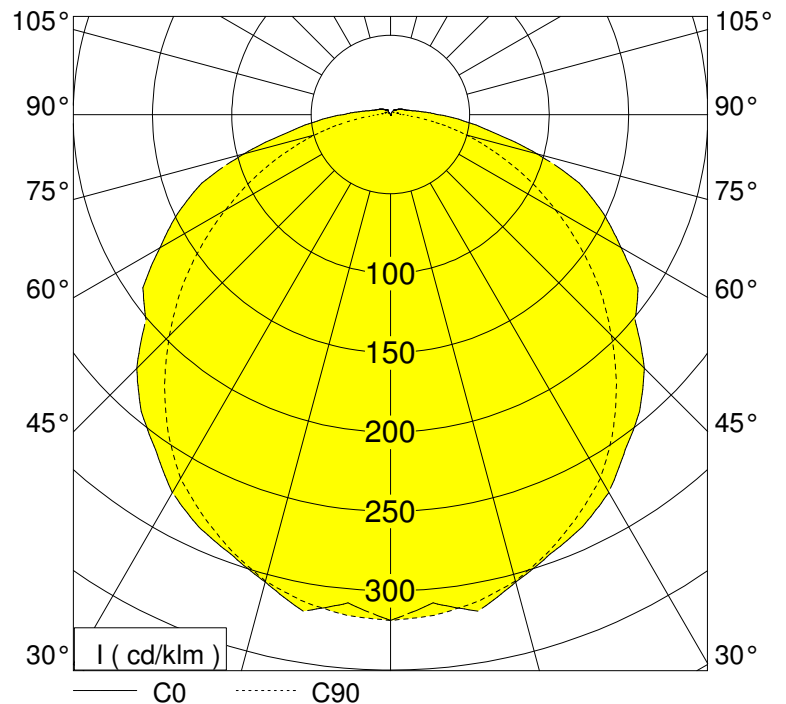
performance

light output ratio : 100.0 %
 DFF : 96.1 %
 UFF : 3.9 %

classification

LiTG / DIN : A41
 UTE : 0.96E+0.04T
 CIE : 44 74 92 96 100
 BZ : 5 5 5 5 5 5 5 5

Ambient Temperature : 25 degC
 Input Voltage : 240 V
 Circuit Watts : 50.1W
 Amps (running) : 0.217A
 V.A. : 52.18VA
 Power Factor : 0.96
 CCT : 4120K (measured): 4000K (declared)
 CRI (Ra) : 84
 S/P Ratio : 1.7
 Luminaire Lumens : 6840 LLm (mains)
 : 503 LLm (emergency)
 Output Current DC : 1190mA
 Output Voltage DC : 35.8V
 Output Power : 42.6W
 Luminaire Lm/circ.Watt : 136.5 LLm/circ.Watt
 Driver Efficiency : 85%
 Driver Details : POWERLANDPLD048-1SCH83-1200

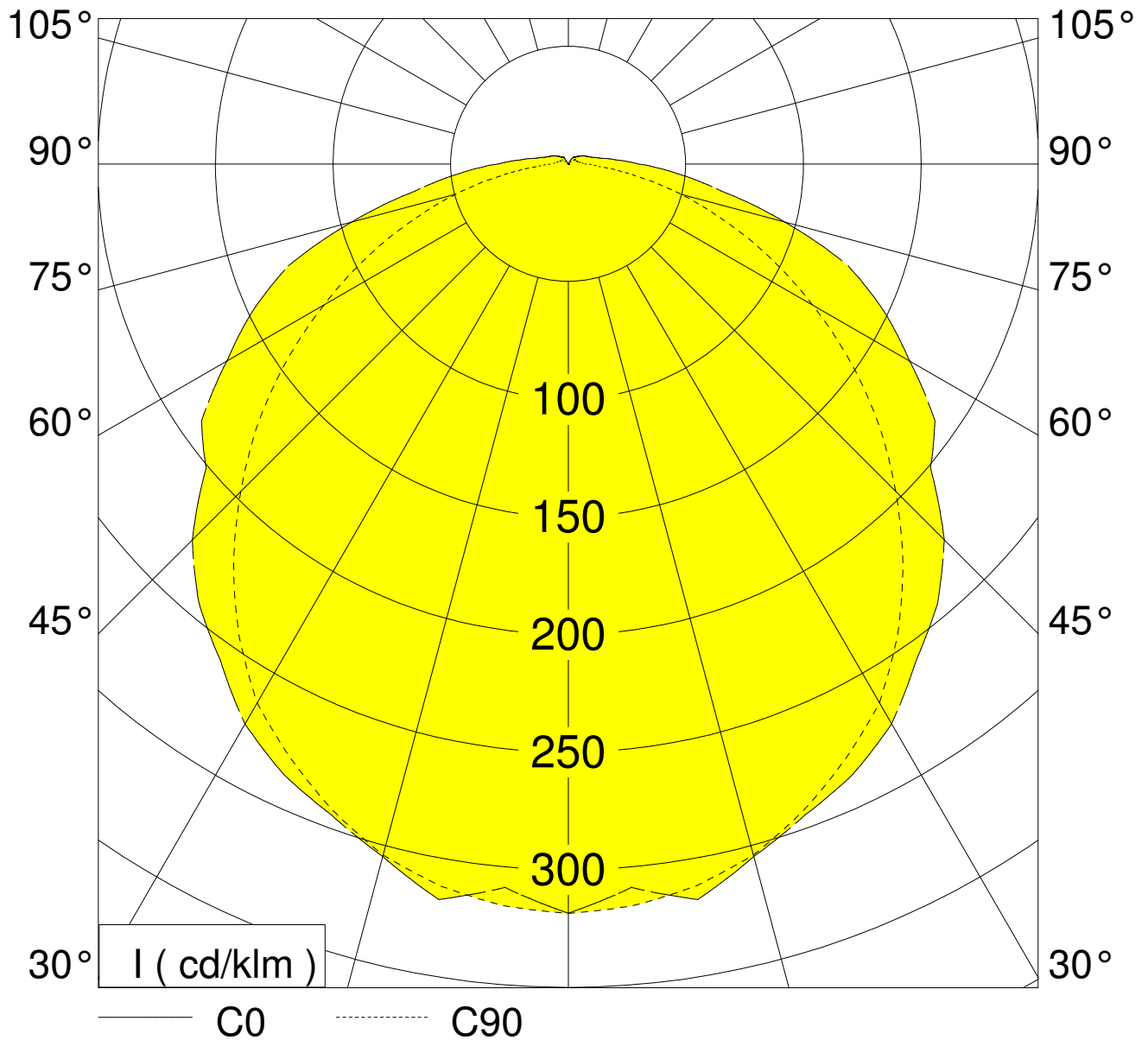


Measurements made are in absolute units. The luminaire is treated as if it was a lamp as it is not possible to measure each LED separately - hence an LOR of 100%

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°	318.30	318.30	318.30	318.30	318.30	318.30	318.30
5.0°	308.50	309.90	311.50	314.40	317.30	316.80	316.30
10.0°	317.30	313.90	310.50	309.00	307.70	309.50	311.50
15.0°	304.60	305.60	306.70	304.20	301.80	302.80	303.90
20.0°	294.30	294.10	294.00	293.50	293.00	292.70	292.30
25.0°	286.10	283.70	281.30	280.90	280.50	279.60	278.80
30.0°	274.70	273.10	271.60	265.80	260.00	262.10	264.30
35.0°	257.60	256.30	255.00	249.60	244.30	244.10	244.00
40.0°	244.00	240.60	237.30	233.00	228.80	225.00	221.20
45.0°	225.90	222.00	218.20	212.20	206.30	201.50	196.70
50.0°	200.90	199.50	198.20	190.10	182.00	177.20	172.30
55.0°	190.20	182.50	174.80	167.40	160.00	153.10	146.20
60.0°	167.50	163.30	159.10	147.10	135.10	127.40	119.80
65.0°	148.00	143.70	139.40	125.10	110.80	102.90	95.00
70.0°	126.50	119.80	113.20	102.00	90.70	80.60	70.60
75.0°	95.30	94.10	92.90	81.30	69.60	59.40	49.30
80.0°	65.90	66.70	67.60	59.40	51.20	40.10	29.10
85.0°	46.30	45.50	44.60	39.50	34.40	24.20	13.80
90.0°	29.90	29.50	29.10	25.00	20.80	13.90	7.10
95.0°	20.40	20.80	21.20	18.00	14.90	10.30	5.60
100.0°	14.00	15.00	16.00	13.00	10.00	7.40	4.70
105.0°	10.80	11.00	11.20	9.10	6.90	5.50	4.10
110.0°	9.10	9.00	8.80	6.90	5.00	4.30	3.70
115.0°	8.00	7.50	7.00	5.50	3.90	3.60	3.40
120.0°	7.00	6.50	5.90	4.70	3.50	3.40	3.30
125.0°	5.90	5.40	4.90	4.10	3.40	3.30	3.20
130.0°	5.00	4.60	4.10	3.50	2.90	1.50	0.00
135.0°	4.10	3.90	3.70	1.90	0.00	0.00	0.00
140.0°	3.60	3.60	3.50	1.80	0.00	0.00	0.00
145.0°	3.50	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	21.9	23.4	22.3	23.7	24.0	21.5	23.0	21.8	23.2	23.5
	3H	22.9	24.0	23.2	24.2	24.4	22.1	23.1	22.4	23.4	23.6
	4H	23.7	24.7	24.0	25.0	25.2	22.7	23.7	23.0	23.9	24.2
	6H	24.2	25.2	24.5	25.5	25.7	23.0	24.0	23.4	24.3	24.6
	8H	24.5	25.4	24.8	25.7	26.0	23.2	24.2	23.6	24.5	24.7
	12H	24.7	25.6	25.0	25.9	26.2	23.3	24.3	23.7	24.6	24.9
4H	2H	21.8	22.8	22.1	23.1	23.3	21.4	22.4	21.7	22.7	22.9
	3H	23.8	24.8	24.2	25.1	25.4	23.1	24.0	23.4	24.3	24.6
	4H	24.8	25.7	25.2	26.0	26.4	23.9	24.8	24.2	25.1	25.4
	6H	25.3	26.1	25.7	26.4	26.7	24.2	25.0	24.6	25.3	25.6
	8H	25.6	26.3	26.0	26.6	27.0	24.4	25.1	24.8	25.5	25.8
	12H	25.9	26.6	26.3	27.0	27.4	24.7	25.3	25.1	25.7	26.1
8H	4H	24.9	25.6	25.3	26.0	26.3	24.1	24.8	24.5	25.1	25.5
	6H	25.9	26.6	26.4	27.0	27.4	25.0	25.6	25.4	26.0	26.4
	8H	26.4	27.0	26.9	27.4	27.9	25.3	26.0	25.8	26.4	26.8
	12H	26.6	27.1	27.1	27.6	28.0	25.5	26.0	25.9	26.4	26.9
12H	4H	25.0	25.7	25.5	26.1	26.5	24.2	24.9	24.7	25.3	25.7
	6H	26.1	26.7	26.6	27.1	27.6	25.2	25.8	25.6	26.2	26.7
	8H	26.4	26.9	26.9	27.4	27.8	25.4	25.9	25.9	26.4	26.8
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	+0.3/ -0.4				+0.4/ -0.6					
standard-table		BK07					BK06				
correction for luminaire		10.0					8.6				
correct glare indices for a total flux of 6840lm											

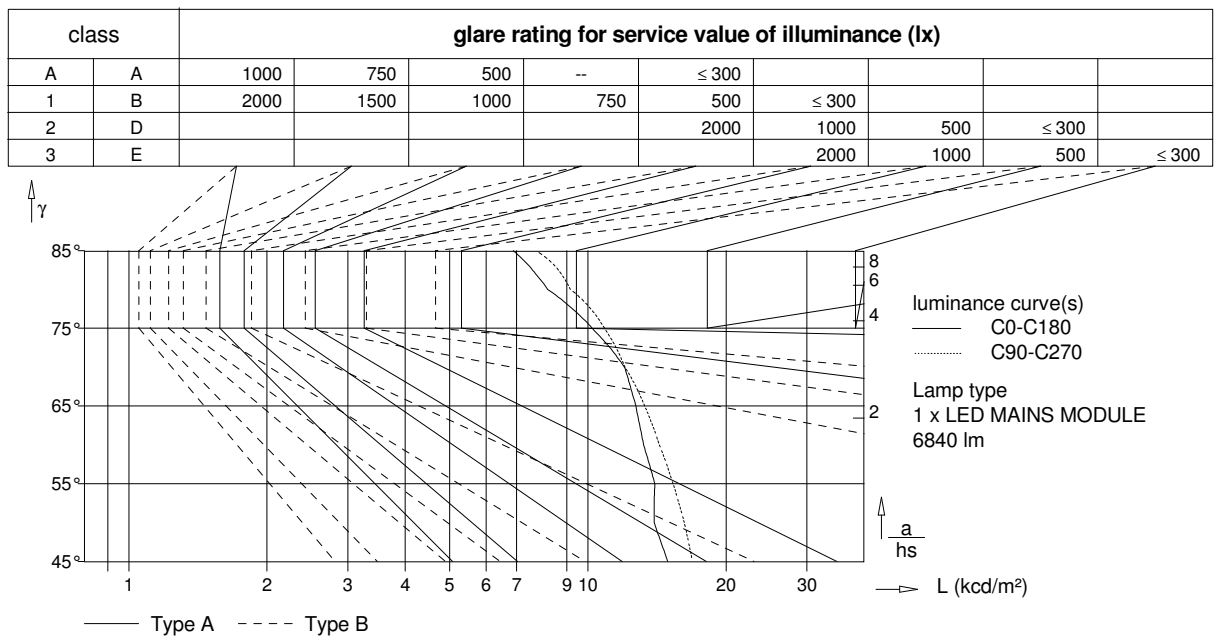


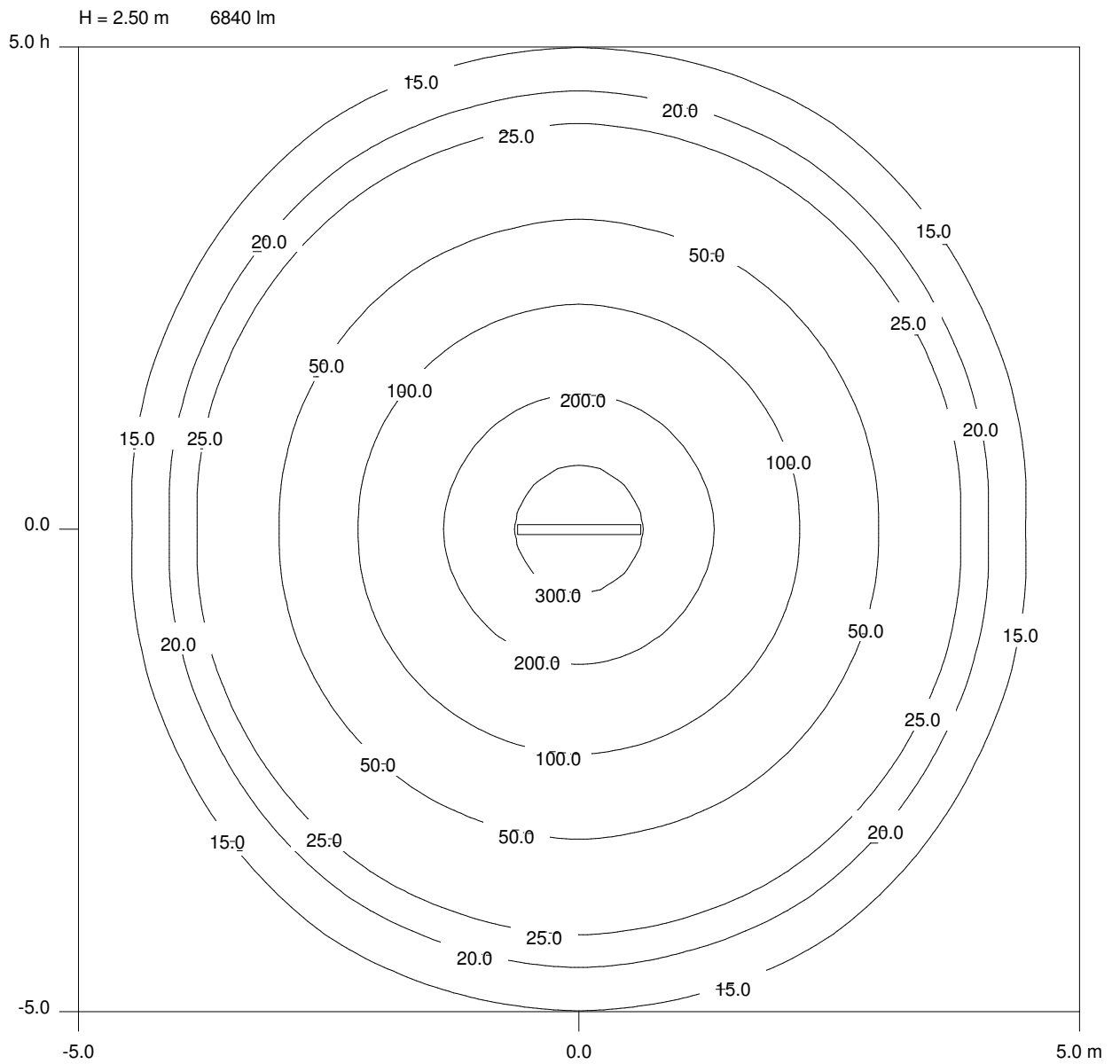
Table of Luminance

gamma	C 0	C 90	C 180	C 270
45°	14926.1	16913.1	14926.1	16913.1
50°	13934.5	16222.9	13934.5	16222.9
55°	13995.0	15339.8	13995.0	15339.8
60°	13230.3	14316.2	13230.3	14316.2
65°	12721.7	13301.8	12721.7	13301.8
70°	12026.4	12045.2	12026.4	12045.2
75°	10221.7	10868.6	10221.7	10868.6
80°	8179.1	9161.7	8179.1	9161.7
85°	6880.1	7699.5	6880.1	7699.5

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	84	89	93	97	100
70	30	20	49	57	65	70	78	83	87	93	96
70	10	20	44	51	59	64	73	78	83	89	93
50	50	20	55	62	69	74	81	85	88	93	95
50	30	20	48	56	63	68	75	80	84	89	92
50	10	20	43	50	58	63	71	76	80	86	89
30	50	20	53	60	67	71	77	81	84	88	91
30	30	20	47	54	61	66	73	77	81	85	88
30	10	20	42	49	56	62	69	74	77	83	86
0	0	0	40	46	53	58	65	69	73	77	80
BZ-class			5	5	5	5	5	5	5	5	5
SHRnom : 1.50						SHRmax : 1.606					

MAINS MODE



EMERGENCY MODE

