

filename : HFI-LED-8.LDT  
 meas. number : 2742  
 luminaire number : HFI-LED-8  
 date / operator : 24-10-2018

**default lamp type(s)**

no of lamps	lamp type	luminaire lumens	input wattage
1	LED STICKLITE	1250 lm	10.2 W

**dimensions**

luminaire	length	width	height	luminous area	length	width	height
	565 mm	30 mm	30 mm		465 mm	25 mm	25 mm

**coordinate system**

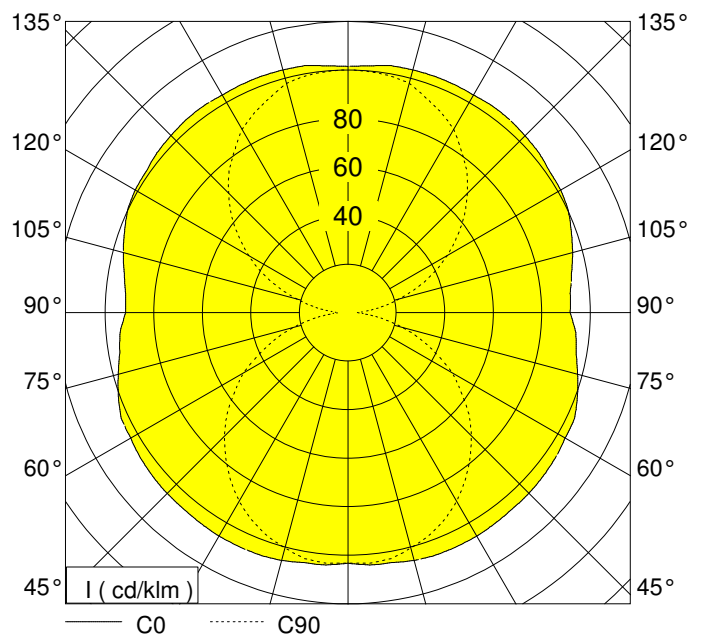
no of planes	7	samples / plane	37
first c-plane	0.0 °	first gamma-angle	0.0 °
step angle	15.0 °	step angle	5.0 °
last c-plane	90.0 °	last gamma-angle	180.0 °
symmetrics	: symmetry to C0 / C90		

**performance**

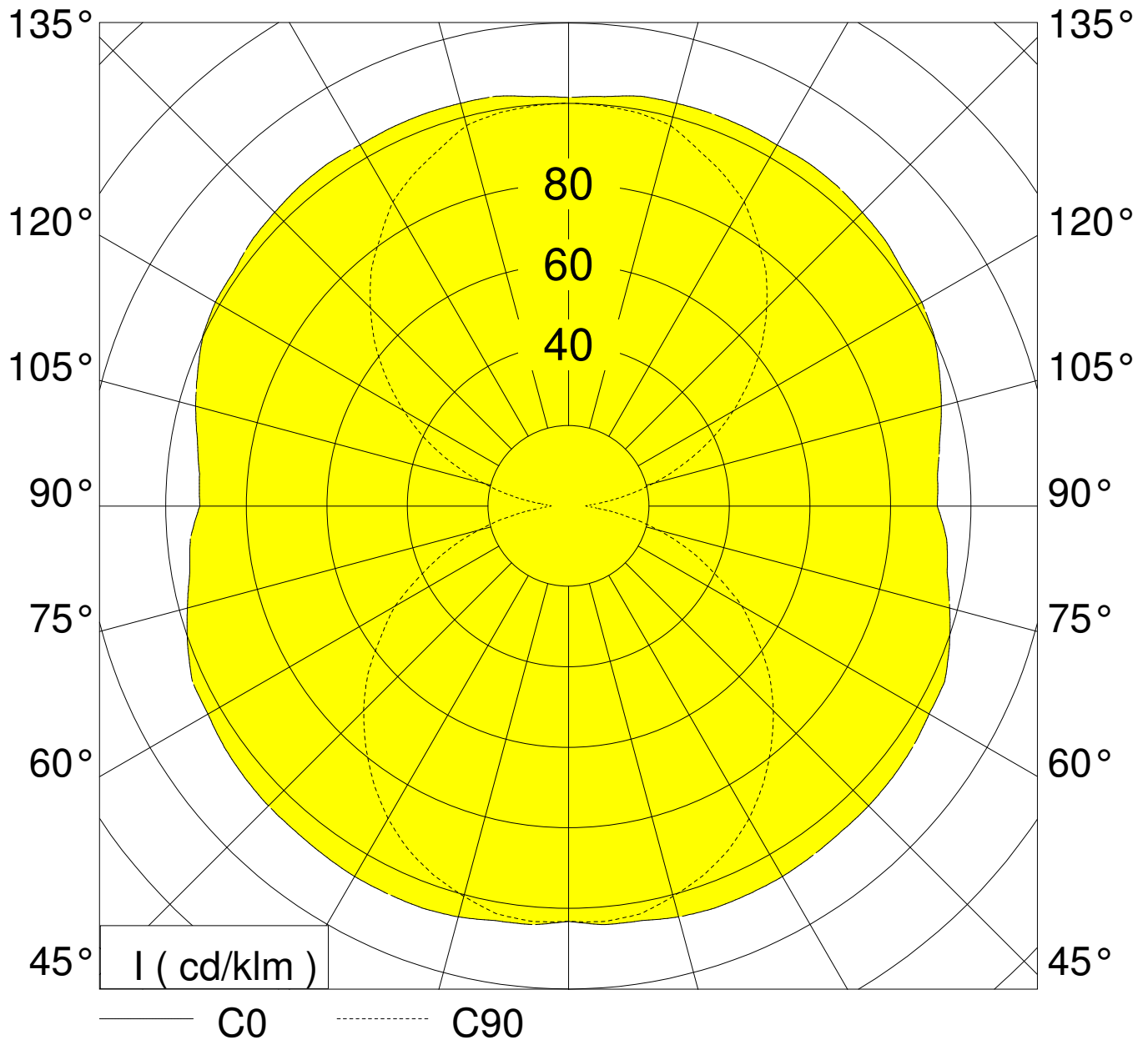
light output ratio : 100.0 %  
 DFF : 50.6 %  
 UFF : 49.4 %

**classification**

LiTG / DIN : C22  
 UTE : 0.51H+0.49T  
 CIE : 31 58 81 51 100  
 BZ : 1 6 6 6 6 6 6 7  
 Ambient Temperature : 25 degC  
 Input Voltage : 240 V  
 Circuit Watts : 10.2W  
 Amps (running) : 0.047A  
 V.A. : 11.33VA  
 Power Factor : 0.90  
 CCT : 4192K (measured): 4200K (declared)  
 CRI (Ra) : 92  
 S/P Ratio : 1.8  
 Luminaire Lumens : 1250 LLm  
 Luminaire Lm/circ.Watt : 122.5 LLm/circ.Watt



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°	103.10	103.10	103.10	103.10	103.10	103.10	103.10
5.0°	104.30	104.30	104.30	104.10	103.90	103.70	103.50
10.0°	104.50	104.60	104.70	104.10	103.50	103.10	102.80
15.0°	105.60	105.60	105.60	104.40	103.10	101.70	100.30
20.0°	106.20	105.50	104.90	103.40	102.00	99.80	97.60
25.0°	106.20	105.40	104.70	101.80	99.10	96.60	94.10
30.0°	106.20	105.20	104.10	100.40	96.80	93.20	89.60
35.0°	105.80	104.40	103.00	98.10	93.10	88.60	84.20
40.0°	105.40	103.90	102.40	96.10	89.70	84.00	78.20
45.0°	105.30	102.30	99.40	92.20	85.10	78.50	71.90
50.0°	104.90	101.30	97.90	89.40	81.00	73.00	65.00
55.0°	104.30	100.00	95.80	86.20	76.40	66.70	56.90
60.0°	103.30	98.50	93.50	82.70	71.80	60.70	49.70
65.0°	103.00	97.30	91.60	79.00	66.40	53.20	40.20
70.0°	100.60	94.30	87.90	75.10	62.30	47.00	31.80
75.0°	97.90	91.10	84.50	71.10	57.60	40.30	22.90
80.0°	95.40	88.80	82.40	67.10	51.90	33.20	14.50
85.0°	94.20	87.30	80.30	64.10	47.80	27.60	7.40
90.0°	91.50	85.30	79.00	61.50	44.00	23.80	3.60
95.0°	91.90	86.40	80.70	63.30	45.70	26.40	7.00
100.0°	93.50	87.90	82.40	66.20	50.00	31.90	14.00
105.0°	95.80	90.90	86.20	70.70	55.20	38.50	21.70
110.0°	97.90	93.50	89.20	74.60	59.90	45.10	30.30
115.0°	100.10	95.70	91.30	77.80	64.40	51.70	39.10
120.0°	101.20	97.20	93.20	80.90	68.60	57.90	47.20
125.0°	101.40	98.00	94.50	83.60	72.80	63.90	55.00
130.0°	102.60	99.40	96.20	87.00	77.80	70.20	62.70
135.0°	103.10	100.40	97.70	89.90	82.10	75.80	69.50
140.0°	103.70	101.40	99.20	92.90	86.60	81.40	76.20
145.0°	103.90	102.30	100.70	95.50	90.30	85.90	81.40
150.0°	103.50	102.40	101.20	97.60	93.80	90.50	87.20
155.0°	103.70	103.10	102.60	99.60	96.50	93.70	90.90
160.0°	103.70	103.40	103.10	100.90	98.70	96.40	94.10
165.0°	103.50	103.20	103.00	101.30	99.70	98.70	97.80
170.0°	103.30	103.00	102.60	101.60	100.70	99.90	99.10
175.0°	102.00	101.70	101.40	101.20	100.90	100.20	99.70
180.0°	101.40	101.10	100.90	100.70	100.50	100.20	100.00
	cd / klm						

<b>glare rating according to UGR</b>											
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	17.3	18.4	18.2	19.2	20.3	16.2	17.3	17.1	18.2	19.3
	3H	20.3	21.5	21.4	22.7	24.5	18.5	19.7	19.6	20.9	22.6
	4H	21.6	22.8	22.8	24.0	25.9	19.3	20.4	20.4	21.7	23.6
	6H	22.9	23.9	24.1	25.3	27.3	19.8	20.9	21.0	22.2	24.3
	8H	23.6	24.6	24.8	26.0	28.1	20.1	21.1	21.3	22.5	24.6
	12H	24.2	25.3	25.5	26.7	28.9	20.3	21.3	21.5	22.7	24.9
4H	2H	18.6	19.7	19.7	21.0	22.9	17.8	18.9	18.9	20.2	22.1
	3H	21.3	22.4	22.6	23.8	26.0	19.8	20.9	21.1	22.3	24.5
	4H	22.9	23.9	24.2	25.3	27.8	20.9	21.9	22.2	23.4	25.8
	6H	24.1	25.0	25.5	26.4	28.8	21.5	22.3	22.8	23.8	26.1
	8H	24.9	25.7	26.3	27.2	29.7	21.8	22.6	23.2	24.1	26.6
	12H	25.7	26.5	27.2	28.1	31.0	22.1	22.9	23.6	24.5	27.4
8H	4H	23.1	23.9	24.5	25.4	27.9	21.4	22.2	22.8	23.7	26.3
	6H	25.0	25.7	26.5	27.4	30.5	22.7	23.5	24.3	25.2	28.3
	8H	26.0	26.7	27.6	28.4	31.9	23.3	24.0	24.9	25.8	29.2
	12H	26.8	27.4	28.4	29.1	32.5	23.6	24.2	25.3	26.0	29.3
12H	4H	23.2	24.0	24.7	25.6	28.5	21.7	22.5	23.2	24.1	27.0
	6H	25.2	25.9	26.8	27.7	31.1	23.1	23.8	24.8	25.6	29.0
	8H	26.1	26.7	27.7	28.4	31.8	23.7	24.2	25.3	26.0	29.3
variation of observer position											
S =	1.0H	+0.1/		-0.1		+0.1/		-0.1			
	1.5H	+0.2/		-0.2		+0.2/		-0.2			
	2.0H	+0.2/		-0.2		+0.3/		-0.4			
standard-table	BK11					BK08					
correction for luminaire	10.1					6.3					
correct glare indices for a total flux of 1250lm											

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	

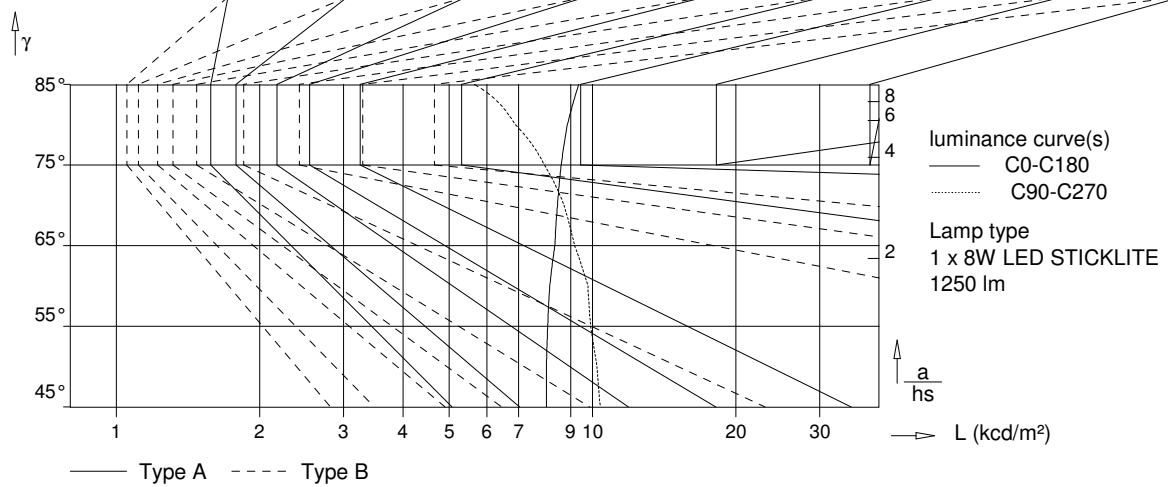


Table of intensities

gamma	C 0	C 90	C 180	C 270
45°	8006.3	10375.7	8006.3	10375.7
50°	8006.3	10218.6	8006.3	10218.6
55°	8052.6	9906.3	8052.6	9906.3
60°	8131.3	9777.7	8131.3	9777.7
65°	8334.0	9170.7	8334.0	9170.7
70°	8439.6	8710.8	8439.6	8710.8
75°	8595.2	7923.9	8595.2	7923.9
80°	8854.9	6880.7	8854.9	6880.7
85°	9349.7	5654.7	9349.7	5654.7

all values in cd/m<sup>2</sup>

<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	N/A	50	56	61	67	72	75	80	83
70	30	20	N/A	42	48	53	61	66	70	75	79
70	10	20	N/A	36	43	48	55	61	65	71	75
50	50	20	N/A	42	47	51	57	60	63	67	70
50	30	20	N/A	36	41	45	51	56	59	63	66
50	10	20	N/A	32	37	41	47	52	55	60	63
30	50	20	N/A	35	39	42	47	50	52	55	57
30	30	20	N/A	30	35	38	43	46	49	53	55
30	10	20	N/A	27	31	35	40	43	46	50	53
0	0	0	N/A	19	22	24	28	30	32	35	37
BZ-class			1	6	6	6	6	6	6	6	7
SHRnom : 1.75						SHRmax : 1.930					

