

filename : FLUSHLIGHT
 meas. number : 2771
 luminaire number : FLUSHLIGHT-LED
 date / operator : 02-02-2012

default lamp type(s)

no of lamps	lamp type	luminaire lumens	wattage
1	4W LED ON MAINS	101 lm	4 W
1	4W LED ON EMERGENCY	90 lm	4 W

dimensions

luminaire		luminous area	
length	: 410 mm	length	: 295 mm
width	: 145 mm	width	: 100 mm
height	: 10 mm	height	: 0 mm

coordinate system

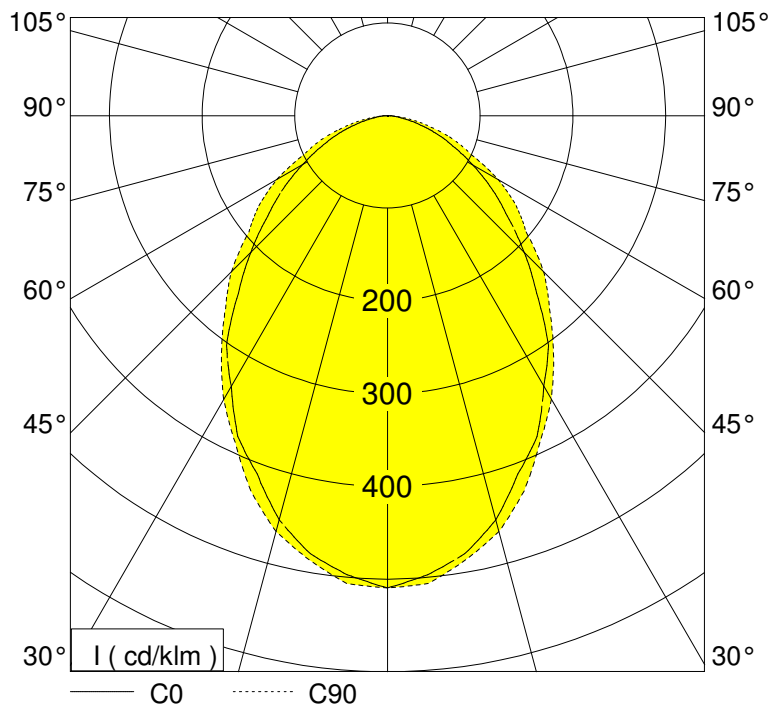
no of planes	: 24	samples / plane	: 37
first c-plane	: 0.0 °	first gamma-angle	: 0.0 °
step angle	: 15.0 °	step angle	: 5.0 °
last c-plane	: 345.0 °	last gamma-angle	: 180.0 °
symmetrics	: asymmetric		

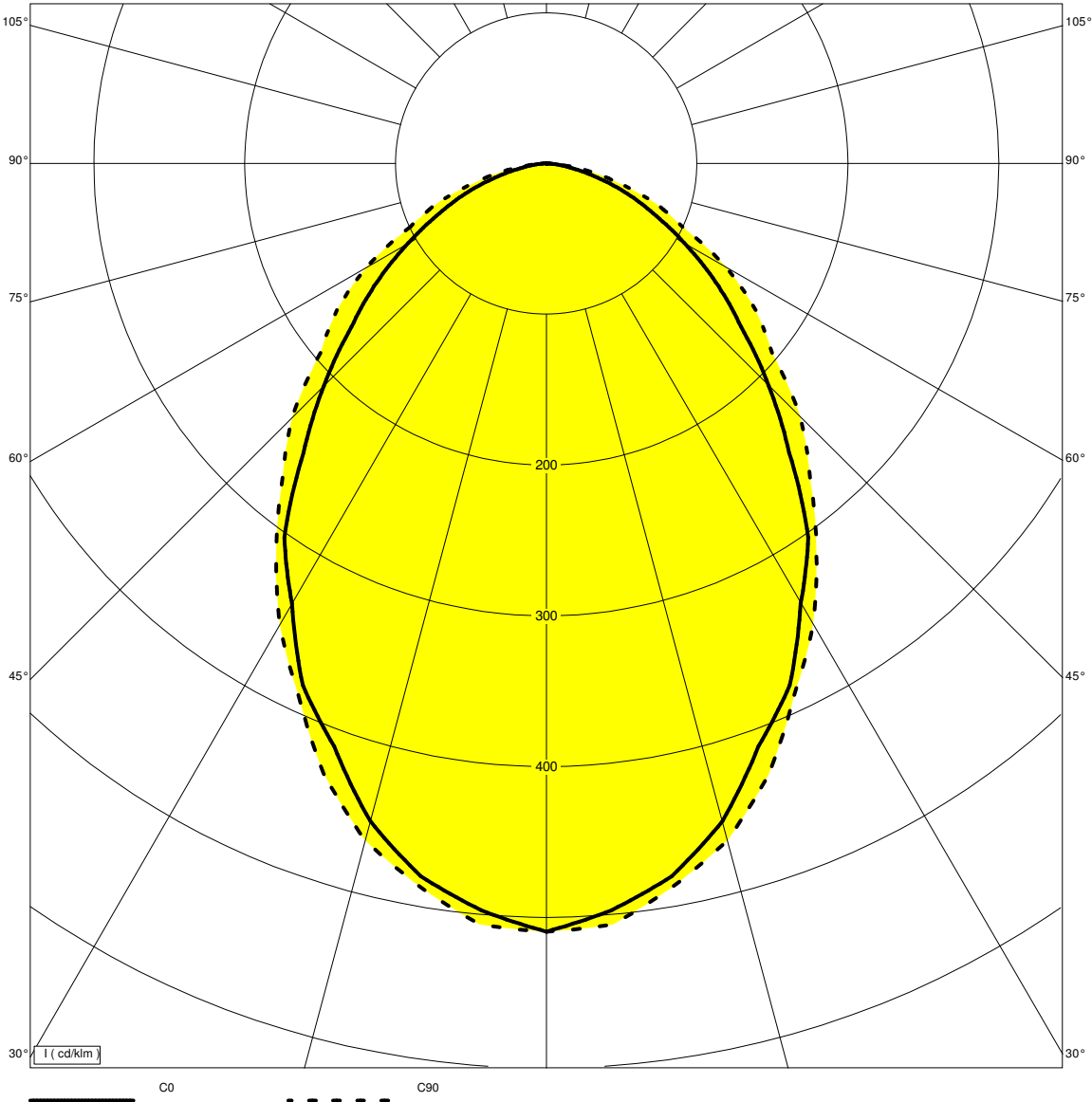
performance

light output ratio	: 100.0 %
DFF	: 100.0 %
UFF	: 0.0 %

classification

LiTG / DIN	: A50
UTE	: 1.00C1.00D
CIE	: 57 85 97 100 100
BZ	: 3 3 3 3 3 3 3 3





FLUSHLIGHT MAINTAINED EMERGENCY / FLUSH-LED

intensity table

	C 0.0	C 15.0	C 30.0	C 45.0	C 60.0	C 75.0	C 90.0	C 105.0
0.0°	509.50	509.50	509.50	509.50	509.50	509.50	509.50	509.50
5.0°	497.20	497.20	497.10	500.50	503.80	505.20	506.70	505.20
10.0°	480.00	482.30	484.80	485.20	485.60	486.10	486.60	486.10
15.0°	451.50	451.90	452.20	456.00	459.70	462.10	464.60	462.10
20.0°	411.40	410.80	410.10	412.30	414.50	422.80	431.00	422.80
25.0°	382.00	379.70	377.60	380.70	383.90	386.40	388.90	386.40
30.0°	337.20	340.20	343.20	341.90	340.60	347.00	353.50	347.00
35.0°	302.90	304.90	306.90	305.00	303.20	307.70	312.20	307.70
40.0°	250.50	256.70	262.90	264.40	265.80	268.90	272.00	268.90
45.0°	208.60	216.10	223.70	228.50	233.20	235.80	238.50	235.80
50.0°	168.60	175.60	182.70	189.20	195.80	195.60	195.40	195.60
55.0°	137.10	140.30	143.40	153.30	163.10	166.30	169.50	166.30
60.0°	105.70	111.10	116.70	124.60	132.40	135.20	137.90	135.20
65.0°	78.10	83.60	88.90	94.40	99.80	99.70	99.60	99.70
70.0°	55.30	56.30	57.40	65.60	73.90	75.20	76.60	75.20
75.0°	33.30	36.30	39.20	43.10	47.00	47.90	48.80	47.90
80.0°	16.10	18.20	20.10	24.00	27.80	27.80	27.80	27.80
85.0°	5.70	6.70	7.60	7.60	7.70	7.60	7.60	7.60
90.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0°	0.00	0.00	0.00	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	0.00
155.0°	0.00	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	0.00
165.0°	0.00	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	0.00
175.0°	0.00	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	0.00
	cd / klm							

FLUSHLIGHT MAINTAINED EMERGENCY / FLUSH-LED

intensity table

	C 120.0	C 135.0	C 150.0	C 165.0	C 180.0	C 195.0	C 210.0	C 225.0
0.0°	509.50	509.50	509.50	509.50	509.50	509.50	509.50	509.50
5.0°	503.80	500.50	497.10	497.20	497.20	497.20	497.10	500.50
10.0°	485.60	485.20	484.80	482.30	480.00	482.30	484.80	485.20
15.0°	459.70	456.00	452.20	451.90	451.50	451.90	452.20	456.00
20.0°	414.50	412.30	410.10	410.80	411.40	410.80	410.10	412.30
25.0°	383.90	380.70	377.60	379.70	382.00	379.70	377.60	380.70
30.0°	340.60	341.90	343.20	340.20	337.20	340.20	343.20	341.90
35.0°	303.20	305.00	306.90	304.90	302.90	304.90	306.90	305.00
40.0°	265.80	264.40	262.90	256.70	250.50	256.70	262.90	264.40
45.0°	233.20	228.50	223.70	216.10	208.60	216.10	223.70	228.50
50.0°	195.80	189.20	182.70	175.60	168.60	175.60	182.70	189.20
55.0°	163.10	153.30	143.40	140.30	137.10	140.30	143.40	153.30
60.0°	132.40	124.60	116.70	111.10	105.70	111.10	116.70	124.60
65.0°	99.80	94.40	88.90	83.60	78.10	83.60	88.90	94.40
70.0°	73.90	65.60	57.40	56.30	55.30	56.30	57.40	65.60
75.0°	47.00	43.10	39.20	36.30	33.30	36.30	39.20	43.10
80.0°	27.80	24.00	20.10	18.20	16.10	18.20	20.10	24.00
85.0°	7.70	7.60	7.60	6.70	5.70	6.70	7.60	7.60
90.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0°	0.00	0.00	0.00	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	0.00
155.0°	0.00	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	0.00
165.0°	0.00	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	0.00
175.0°	0.00	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	0.00
	cd / klm							

	C 240.0	C 255.0	C 270.0	C 285.0	C 300.0	C 315.0	C 330.0	C 345.0
0.0°	509.50	509.50	509.50	509.50	509.50	509.50	509.50	509.50
5.0°	503.80	505.20	506.70	505.20	503.80	500.50	497.10	497.20
10.0°	485.60	486.10	486.60	486.10	485.60	485.20	484.80	482.30
15.0°	459.70	462.10	464.60	462.10	459.70	456.00	452.20	451.90
20.0°	414.50	422.80	431.00	422.80	414.50	412.30	410.10	410.80
25.0°	383.90	386.40	388.90	386.40	383.90	380.70	377.60	379.70
30.0°	340.60	347.00	353.50	347.00	340.60	341.90	343.20	340.20
35.0°	303.20	307.70	312.20	307.70	303.20	305.00	306.90	304.90
40.0°	265.80	268.90	272.00	268.90	265.80	264.40	262.90	256.70
45.0°	233.20	235.80	238.50	235.80	233.20	228.50	223.70	216.10
50.0°	195.80	195.60	195.40	195.60	195.80	189.20	182.70	175.60
55.0°	163.10	166.30	169.50	166.30	163.10	153.30	143.40	140.30
60.0°	132.40	135.20	137.90	135.20	132.40	124.60	116.70	111.10
65.0°	99.80	99.70	99.60	99.70	99.80	94.40	88.90	83.60
70.0°	73.90	75.20	76.60	75.20	73.90	65.60	57.40	56.30
75.0°	47.00	47.90	48.80	47.90	47.00	43.10	39.20	36.30
80.0°	27.80	27.80	27.80	27.80	27.80	24.00	20.10	18.20
85.0°	7.70	7.60	7.60	7.60	7.70	7.60	7.60	6.70
90.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.0°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0°	0.00	0.00	0.00	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	0.00
155.0°	0.00	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	0.00
165.0°	0.00	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	0.00
175.0°	0.00	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	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	11.7	13.1	12.0	13.3	13.5	12.6	14.0	12.8	14.1	14.3
	3H	12.0	13.0	12.2	13.2	13.4	13.1	14.2	13.4	14.3	14.5
	4H	12.4	13.4	12.7	13.6	13.8	13.7	14.7	13.9	14.9	15.1
	6H	12.6	13.6	12.9	13.8	14.0	14.0	15.0	14.3	15.2	15.4
	8H	12.7	13.6	13.0	13.9	14.1	14.1	15.1	14.4	15.3	15.6
	12H	12.8	13.7	13.1	13.9	14.2	14.2	15.2	14.5	15.4	15.7
4H	2H	11.8	12.8	12.0	13.0	13.2	12.5	13.5	12.7	13.7	13.9
	3H	13.0	14.0	13.3	14.2	14.5	14.0	15.0	14.3	15.2	15.5
	4H	13.6	14.5	13.9	14.8	15.1	14.7	15.7	15.1	15.9	16.2
	6H	13.7	14.4	14.0	14.7	15.0	15.0	15.7	15.3	16.0	16.4
	8H	13.8	14.5	14.2	14.8	15.2	15.2	15.9	15.5	16.2	16.5
	12H	14.0	14.7	14.4	15.1	15.5	15.4	16.1	15.8	16.5	16.9
8H	4H	13.7	14.4	14.1	14.8	15.1	14.8	15.5	15.2	15.8	16.2
	6H	14.4	15.0	14.8	15.4	15.9	15.6	16.3	16.0	16.7	17.1
	8H	14.6	15.2	15.1	15.7	16.1	15.9	16.5	16.4	17.0	17.4
	12H	14.6	15.1	15.1	15.6	16.1	15.9	16.4	16.4	16.9	17.4
12H	4H	13.9	14.6	14.3	15.0	15.4	15.0	15.6	15.4	16.0	16.4
	6H	14.5	15.2	15.0	15.6	16.1	15.7	16.4	16.2	16.8	17.3
	8H	14.6	15.1	15.1	15.6	16.1	15.9	16.4	16.4	16.9	17.4
variation of observer position											
S =	1.0H	+0.2/		-0.3		+0.1/		-0.2			
	1.5H	+0.3/		-0.7		+0.3/		-0.5			
	2.0H	+0.7/		-1.3		+0.6/		-0.9			
standard-table	BK04					BK05					
correction for luminaire	-3.2					-1.6					
correct glare indices for a total flux of 101lm											

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	63	73	80	84	91	96	99	103	105
70	30	20	56	66	73	78	86	91	94	99	102
70	10	20	51	61	68	73	81	86	90	96	99
50	50	20	62	71	77	82	88	92	95	99	101
50	30	20	55	65	72	77	83	88	91	96	98
50	10	20	51	60	67	72	80	85	88	93	96
30	50	20	60	69	75	79	85	89	92	95	97
30	30	20	55	64	70	75	81	86	89	93	95
30	10	20	50	60	66	71	78	83	86	90	93
0	0	0	48	57	64	68	75	79	82	86	89
BZ-class			3	3	3	3	3	3	3	3	3
SHRnom : 1.25						SHRmax : 1.330					

