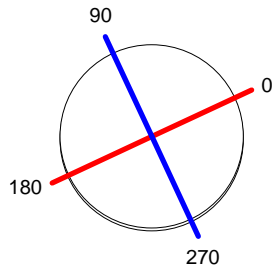


Luminaire		Measur.		Lamp			
Code	15-9708-YA-37	Code	15-9708-YA-37	Code	64824FL GU10		
Name	Downlight GEA 50W GU10	Name	Downlight GEA 50W GU10	Number	1		
Line	- LEDS-C4	Date	02-11-2015	Position	Universal		
Luminaire Flux	219.40 lm	Luminaire Power	50.00 W	Efficacy	4.39 lm/W	Efficiency	73.13%
Lamps Flux	300.00 lm	Maximum value	415.26 cd	Position	C=45.00 G=5.00	CG Double Symmetrical	
Round Recessed Luminaire		Diam.	125 mm	Height	4 mm		
Round Luminous Area		Diam.	52 mm	Height	0 mm		
Horizontal Luminous Area	0.002124 m2			Emitting area on Plane 180°	0.000000 m2		
Emitting area on Plane 0°	0.000000 m2			Emitting area on Plane 270°	0.000000 m2		
Emitting area on Plane 90°	0.000000 m2			Glare area at 76°	0.000514 m2		
Coordinate system	CG			Symmetry Type	Double Symmetrical		
Date	02-11-2015			Maximum Gamma Angle	90		
Measurement Distance	0.51			Measurement Flux	386.00 lm		
Operator	Asselum T3			Source voltage			
Temperature	19.80 °C			Source current			
Humidity	67.00 %			Photocell	Czibula Grundmann		
Notes							

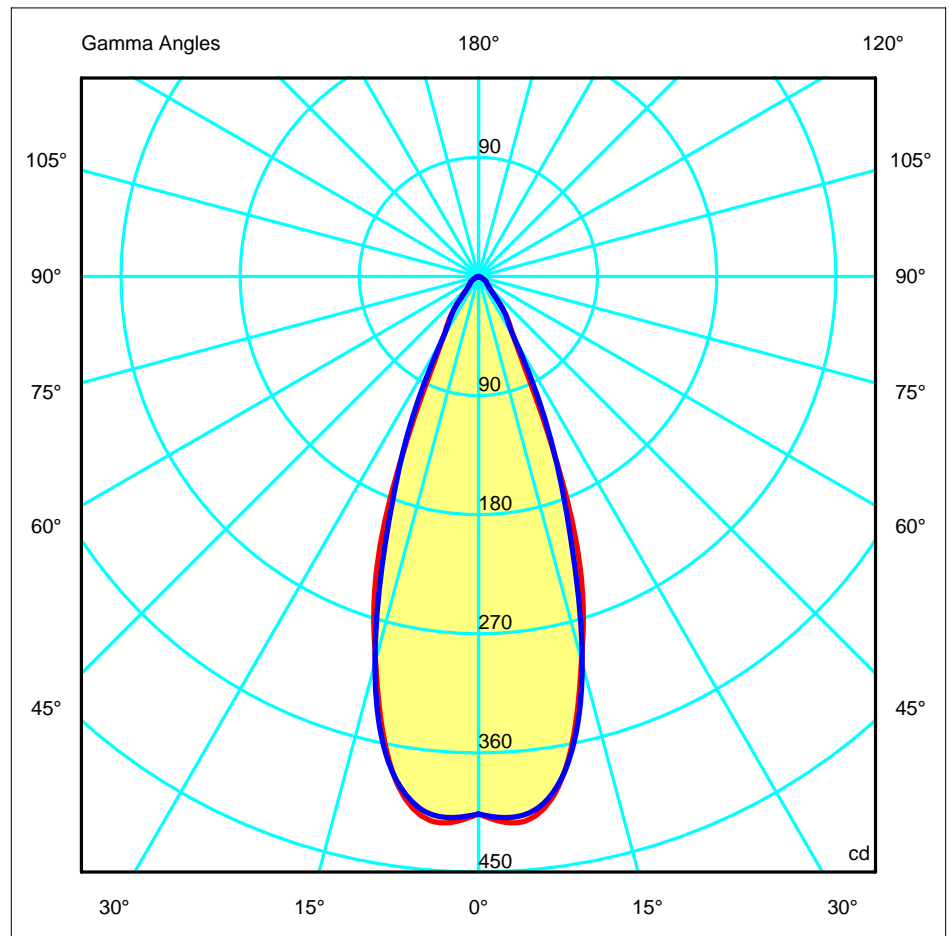
Line	Code	Luminaire Lamps Name	Flux [lm]	Pow. [W]	Q.ty
OSRAM 2006 HS, HM, HD, HR	64824FL GU10	HALOGEN ALU 50W GU10 35°	300.00	50.00	1
C.I.E.	91 98 100 100 73	D DIN 5040	A60		
F UTE	0.73 A	B NBN	BZ 1		

Diam=125mm Incasso



C Halfplanes
 180.0 — 0.0
 270.0 — 90.0

ULOR 0.00 %
 DLOR 73.13 %
 RN 0.00 %



Luminaire		Measurem.		Lamp	
Code	15-9708-YA-37	Code	15-9708-YA-37	Code	64824FL GU10
Name	Downlight GEA 50W GU10	Name	Downlight GEA 50W GU10	Number	1
Line	- LEDS-C4	Date	02-11-2015	Position	Universal

Luminaire Flux	219.40 lm	Luminaire Power	50.00 W	Efficacy	4.39 lm/W	Efficiency	73.13%
Lamps Flux	300.00 lm	Maximum value	415.26 cd	Position	C=45.00 G=5.00	CG	Double Symmetrical

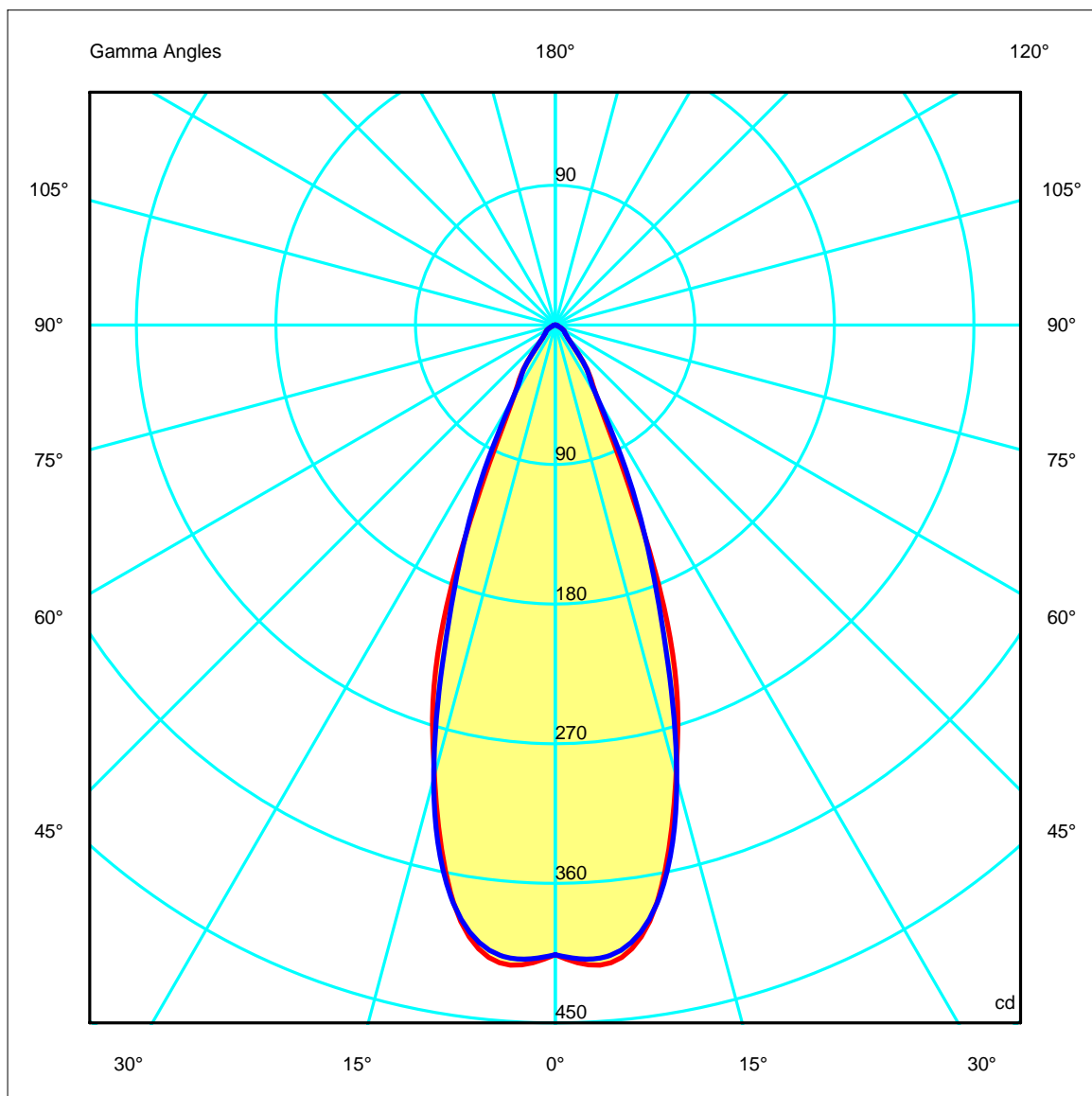
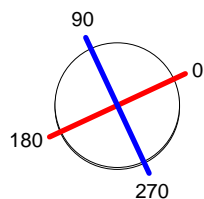
Luminous Intensity Table cd Table 1/1

	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00
G 0.0	406.03	406.03	406.03	406.03	406.03	406.03	406.03
G 5.0	412.78	414.13	415.21	415.26	414.04	410.17	407.98
G 10.0	378.03	381.75	385.02	387.79	388.97	385.60	378.45
G 15.0	300.94	297.83	294.84	296.22	303.07	311.46	302.67
G 20.0	218.36	207.42	207.41	208.91	206.77	205.33	198.44
G 25.0	106.54	114.65	112.23	112.48	109.15	114.65	119.15
G 30.0	53.36	52.59	54.45	54.75	55.67	54.97	54.89
G 35.0	37.44	35.99	36.62	36.16	37.10	36.05	36.22
G 40.0	18.94	18.24	17.93	18.08	18.35	19.25	18.59
G 45.0	10.83	10.86	10.81	11.04	11.21	11.28	11.25
G 50.0	8.52	8.10	8.22	8.18	8.31	8.47	8.20
G 55.0	7.23	7.10	7.49	7.17	7.59	7.22	7.16
G 60.0	5.58	5.95	6.66	6.12	6.46	5.76	5.23
G 65.0	2.84	2.95	3.16	3.24	3.11	3.15	3.08
G 70.0	1.93	1.93	1.91	1.90	1.83	1.79	1.74
G 75.0	1.35	1.36	1.34	1.32	1.29	1.27	1.23
G 80.0	0.83	0.82	0.81	0.81	0.80	0.80	0.78
G 85.0	0.43	0.43	0.43	0.44	0.45	0.47	0.47
G 90.0	0.32	0.31	0.31	0.32	0.34	0.36	0.37

Luminaire		Measurem.		Lamp			
Code	15-9708-YA-37	Code	15-9708-YA-37	Code	64824FL GU10		
Name	Downlight GEA 50W GU10	Name	Downlight GEA 50W GU10	Number	1		
Line	- LEDS-C4	Date	02-11-2015	Position	Universal		
Luminaire Flux	219.40 lm	Luminaire Power	50.00 W	Efficacy	4.39 lm/W	Efficiency	73.13%
Lamps Flux	300.00 lm	Maximum value	415.26 cd	Position	C=45.00 G=5.00	CG	Double Symmetrical

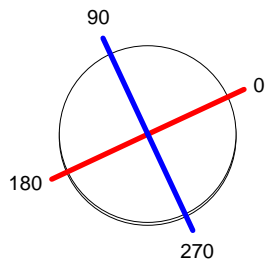
Diam=125mm Incasso

C Halfplanes



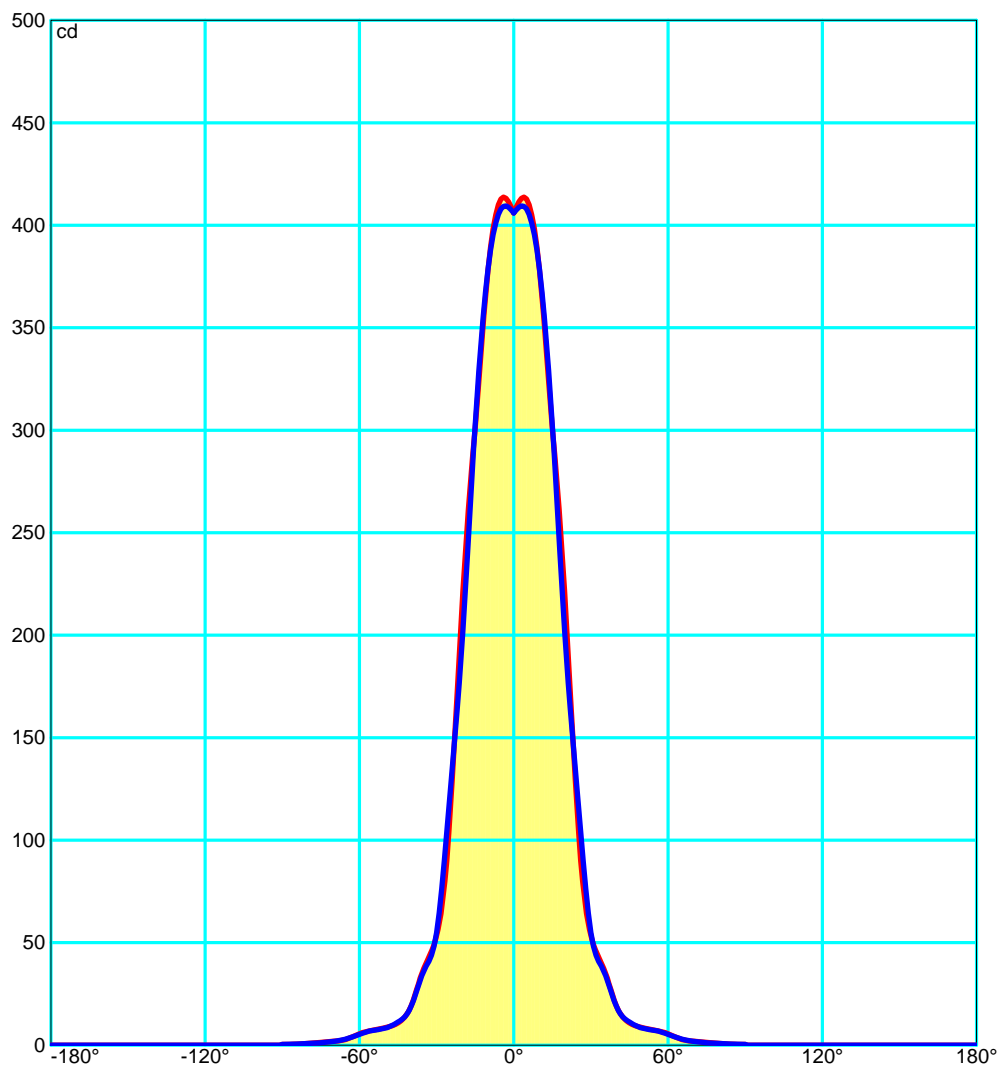
Luminaire		Measurem.		Lamp			
Code	15-9708-YA-37	Code	15-9708-YA-37	Code	64824FL GU10		
Name	Downlight GEA 50W GU10	Name	Downlight GEA 50W GU10	Number	1		
Line	- LEDS-C4	Date	02-11-2015	Position	Universal		
Luminaire Flux	219.40 lm	Luminaire Power	50.00 W	Efficacy	4.39 lm/W	Efficiency	73.13%
Lamps Flux	300.00 lm	Maximum value	415.26 cd	Position	C=45.00 G=5.00	CG	Double Symmetrical

Diam=125mm Incasso



C Halfplanes

180.0 ———— 0.0
270.0 ———— 90.0



Luminaire		Measur.			Lamp		
Code	15-9708-YA-37	Code	15-9708-YA-37	Code	64824FL GU10		
Name	Downlight GEA 50W GU10	Name	Downlight GEA 50W GU10	Number	1		
Line	- LEDS-C4	Date	02-11-2015	Position	Universal		
Luminaire Flux	219.40 lm	Luminaire Power	50.00 W	Efficacy	4.39 lm/W	Efficiency	73.13%
Lamps Flux	300.00 lm	Maximum value	415.26 cd	Position	C=45.00 G=5.00	CG	Double Symmetrical

UGR
S = 0.250

Reflectancies										
Ceiling/Cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
WorkingPlane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
RoomDimensions	ViewedCrosswise					ViewedEndwise				
x=2H y=2H	14.0	14.8	14.3	15.0	15.2	14.1	14.8	14.4	15.0	15.2
x=2H y=3H	14.3	15.0	14.6	15.2	15.5	14.4	15.0	14.7	15.3	15.5
x=2H y=4H	14.5	15.1	14.8	15.4	15.6	14.5	15.1	14.8	15.4	15.6
x=2H y=6H	14.6	15.2	14.9	15.5	15.7	14.6	15.2	14.9	15.5	15.7
x=2H y=8H	14.6	15.2	15.0	15.5	15.8	14.6	15.2	15.0	15.5	15.8
x=2H y=12H	14.7	15.2	15.0	15.5	15.8	14.7	15.2	15.0	15.5	15.8
x=4H y=2H	14.3	15.0	14.6	15.2	15.5	14.4	15.0	14.7	15.2	15.5
x=4H y=3H	14.7	15.2	15.1	15.5	15.9	14.7	15.3	15.1	15.6	15.9
x=4H y=4H	15.0	15.4	15.3	15.8	16.1	15.0	15.4	15.3	15.7	16.1
x=4H y=6H	15.2	15.6	15.6	15.9	16.3	15.1	15.5	15.5	15.9	16.3
x=4H y=8H	15.2	15.6	15.7	16.0	16.3	15.2	15.5	15.6	15.9	16.3
x=4H y=12H	15.3	15.6	15.7	16.0	16.4	15.3	15.6	15.7	16.0	16.4
x=8H y=4H	15.0	15.4	15.4	15.8	16.1	15.0	15.3	15.4	15.7	16.1
x=8H y=6H	15.3	15.6	15.7	16.0	16.4	15.3	15.5	15.7	15.9	16.4
x=8H y=8H	15.4	15.6	15.9	16.1	16.5	15.4	15.6	15.8	16.0	16.5
x=8H y=12H	15.5	15.7	16.0	16.2	16.6	15.5	15.7	16.0	16.2	16.6
x=12H y=4H	15.0	15.3	15.4	15.7	16.1	15.0	15.3	15.4	15.7	16.1
x=12H y=6H	15.3	15.5	15.8	16.0	16.4	15.3	15.5	15.7	15.9	16.4
x=12H y=8H	15.4	15.6	15.9	16.1	16.5	15.4	15.6	15.9	16.1	16.5

Luminaire		Measur.		Lamp			
Code	15-9708-YA-37	Code	15-9708-YA-37	Code	64824FL GU10		
Name	Downlight GEA 50W GU10	Name	Downlight GEA 50W GU10	Number	1		
Line	- LEDS-C4	Date	02-11-2015	Position	Universal		
Luminaire Flux	219.40 lm	Luminaire Power	50.00 W	Efficacy	4.39 lm/W	Efficiency	73.13%
Lamps Flux	300.00 lm	Maximum value	415.26 cd	Position	C=45.00 G=5.00	CG	Double Symmetrical

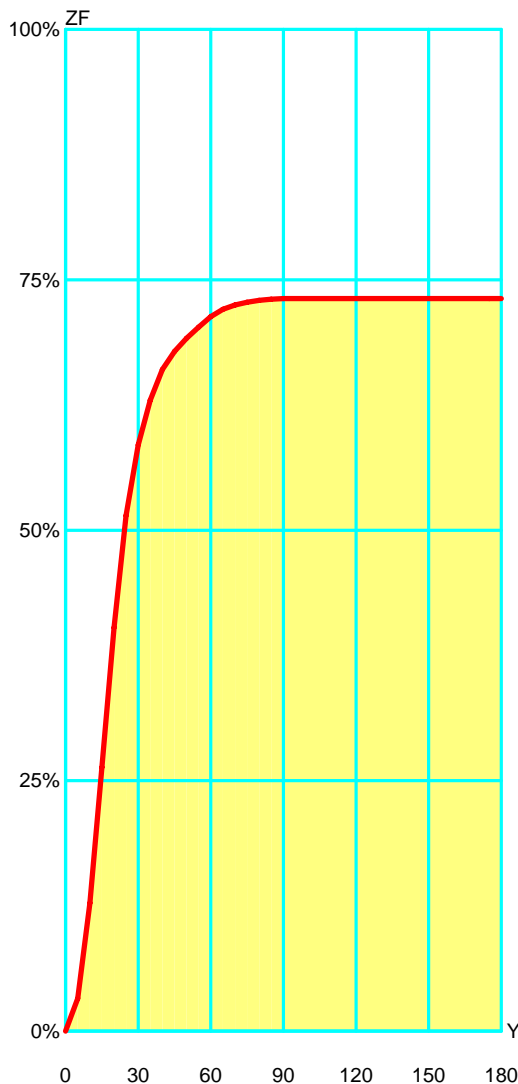
Total Flux=300.00 Luminaire Flux=219.40

RI	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00
DRR	0.67	0.72	0.77	0.81	0.84	0.89	0.92	0.95	0.97	0.98	1.00	1.01
RC	-	-	-	-	-	-	-	-	-	-	-	-

Zonal Flux per 1000 Lumen																		
Y°	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
ZF(Y)	128	403	585	660	692	713	725	729	731	731	731	731	731	731	731	731	731	731

CIE Flux Codes
91 98 100 100 73

C.I.E.	-/-/-/-/-/-/-/-/-/-	LOR	73.13251 %
D DIN 5040	A60	ULOR	0.00000 %
F UTE	0.73 A	DLOR	73.13251 %
B NBN	BZ 1	UFF	0.00000 %
RN	0.00000 %	DFF	100.00000 %
BLF	1.0	FFR	0.00000 %



Zonal Flux				
Gamma °	Flux	Sum lm	Flux [%]	Sum [%]
0°	0.00	0.00	0.00%	0.00 %
5°	32.65	32.65	4.46 %	4.46 %
10°	95.13	127.77	13.01 %	17.47 %
15°	135.53	263.30	18.53 %	36.00 %
20°	139.62	402.93	19.09 %	55.10 %
25°	111.89	514.81	15.30 %	70.39 %
30°	70.49	585.30	9.64 %	80.03 %
35°	44.61	629.91	6.10 %	86.13 %
40°	30.53	660.44	4.17 %	90.31 %
45°	18.19	678.63	2.49 %	92.80 %
50°	13.01	691.64	1.78 %	94.57 %
55°	11.28	702.93	1.54 %	96.12 %
60°	10.29	713.22	1.41 %	97.52 %
65°	7.42	720.63	1.01 %	98.54 %
70°	4.19	724.82	0.57 %	99.11 %
75°	2.77	727.59	0.38 %	99.49 %
80°	1.89	729.48	0.26 %	99.75 %
85°	1.14	730.61	0.16 %	99.90 %
90°	0.71	731.33	0.10 %	100.00 %
95°	0.00	731.33	0.00 %	100.00 %
100°	0.00	731.33	0.00 %	100.00 %
105°	0.00	731.33	0.00 %	100.00 %
110°	0.00	731.33	0.00 %	100.00 %
115°	0.00	731.33	0.00 %	100.00 %
120°	0.00	731.33	0.00 %	100.00 %
125°	0.00	731.33	0.00 %	100.00 %
130°	0.00	731.33	0.00 %	100.00 %
135°	0.00	731.33	0.00 %	100.00 %
140°	0.00	731.33	0.00 %	100.00 %
145°	0.00	731.33	0.00 %	100.00 %
150°	0.00	731.33	0.00 %	100.00 %
155°	0.00	731.33	0.00 %	100.00 %
160°	0.00	731.33	0.00 %	100.00 %
165°	0.00	731.33	0.00 %	100.00 %
170°	0.00	731.33	0.00 %	100.00 %
175°	0.00	731.33	0.00 %	100.00 %
180°	0.00	731.33	0.00 %	100.00 %

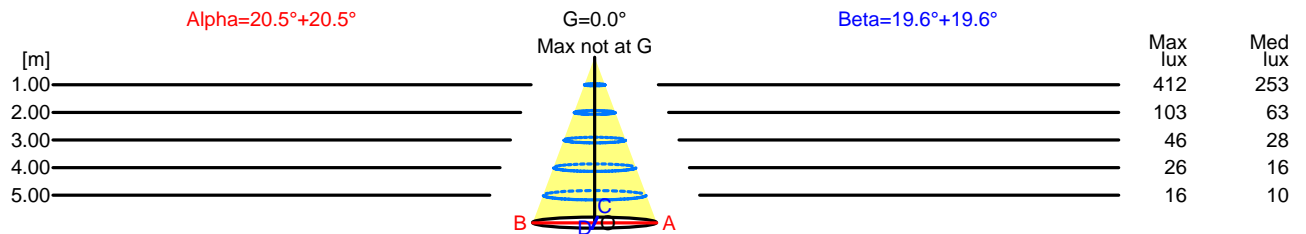
Luminaire		Measur.		Lamp			
Code	15-9708-YA-37	Code	15-9708-YA-37	Code	64824FL GU10		
Name	Downlight GEA 50W GU10	Name	Downlight GEA 50W GU10	Number	1		
Line	- LEDS-C4	Date	02-11-2015	Position	Universal		
Luminaire Flux	219.40 lm	Luminaire Power	50.00 W	Efficacy	4.39 lm/W	Efficiency	73.13%
Lamps Flux	300.00 lm	Maximum value	415.26 cd	Position	C=45.00 G=5.00	CG Double Symmetrical	

Width at 50.00 % of Max Intensity

H[m]	1.00	2.00	3.00	4.00	5.00	H[m]	1.00	2.00	3.00	4.00	5.00
OA	0.37	0.75	1.12	1.50	1.87	OC	0.36	0.71	1.07	1.42	1.78
OB	0.37	0.75	1.12	1.50	1.87	OD	0.36	0.71	1.07	1.42	1.78

Luminous Intensities [cd]

	0	5	15	25	35	45	55	65	75	85
OA	406.03	412.78	300.94	106.54	37.44	10.83	7.23	2.84	1.35	0.43
OB	406.03	412.78	300.94	106.54	37.44	10.83	7.23	2.84	1.35	0.43
OC	406.03	407.98	302.67	119.15	36.22	11.25	7.16	3.08	1.23	0.47
OD	406.03	407.98	302.67	119.15	36.22	11.25	7.16	3.08	1.23	0.47



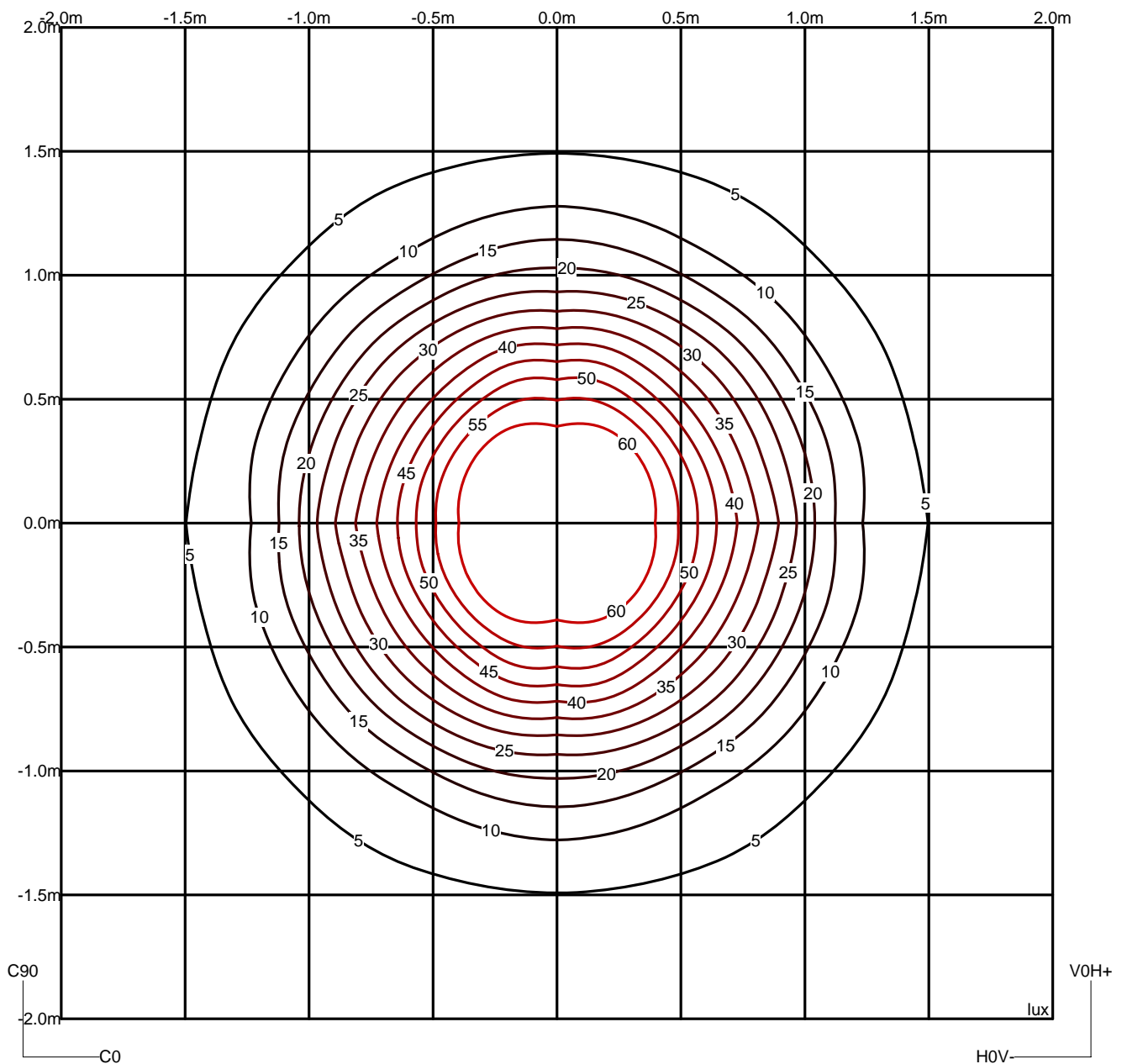
H[m]	D[m]	Max lux	Med lux	Alpha=20.5°+20.5°	G=0.0 Max not at G
1.00	0.75	412	253		
2.00	1.50	103	63		
3.00	2.25	46	28		
4.00	2.99	26	16		
5.00	3.74	16	10		

H[m]	D[m]	Max lux	Med lux	Beta=19.6°+19.6°	G=0.0 Max not at G
1.00	0.71	412	253		
2.00	1.42	103	63		
3.00	2.13	46	28		
4.00	2.84	26	16		
5.00	3.56	16	10		

Luminaire		Measuram.		Lamp			
Code	15-9708-YA-37	Code	15-9708-YA-37	Code	64824FL GU10		
Name	Downlight GEA 50W GU10	Name	Downlight GEA 50W GU10	Number	1		
Line	- LEDS-C4	Date	02-11-2015	Position	Universal		
Luminaire Flux	219.40 lm	Luminaire Power	50.00 W	Efficacy	4.39 lm/W	Efficiency	73.13%
Lamps Flux	300.00 lm	Maximum value	415.26 cd	Position	C=45.00 G=5.00	CG Double Symmetrical	

Isolux (Floor)

Luminaire position X=0.00m Y=0.00m Z=2.50m



Luminaire				Measur.				Lamp			
Code	15-9708-YA-37			Code	15-9708-YA-37			Code	64824FL GU10		
Name	Downlight GEA 50W GU10			Name	Downlight GEA 50W GU10			Number	1		
Line	- LEDS-C4			Date	02-11-2015			Position	Universal		
Luminaire Flux	219.40 lm			Luminaire Power	50.00 W			Efficacy	4.39 lm/W		
Lamps Flux	300.00 lm			Maximum value	415.26 cd			Position	C=45.00 G=5.00		
							Efficiency	73.13%			
							CG	Double Symmetrical			

Utilizations CIE

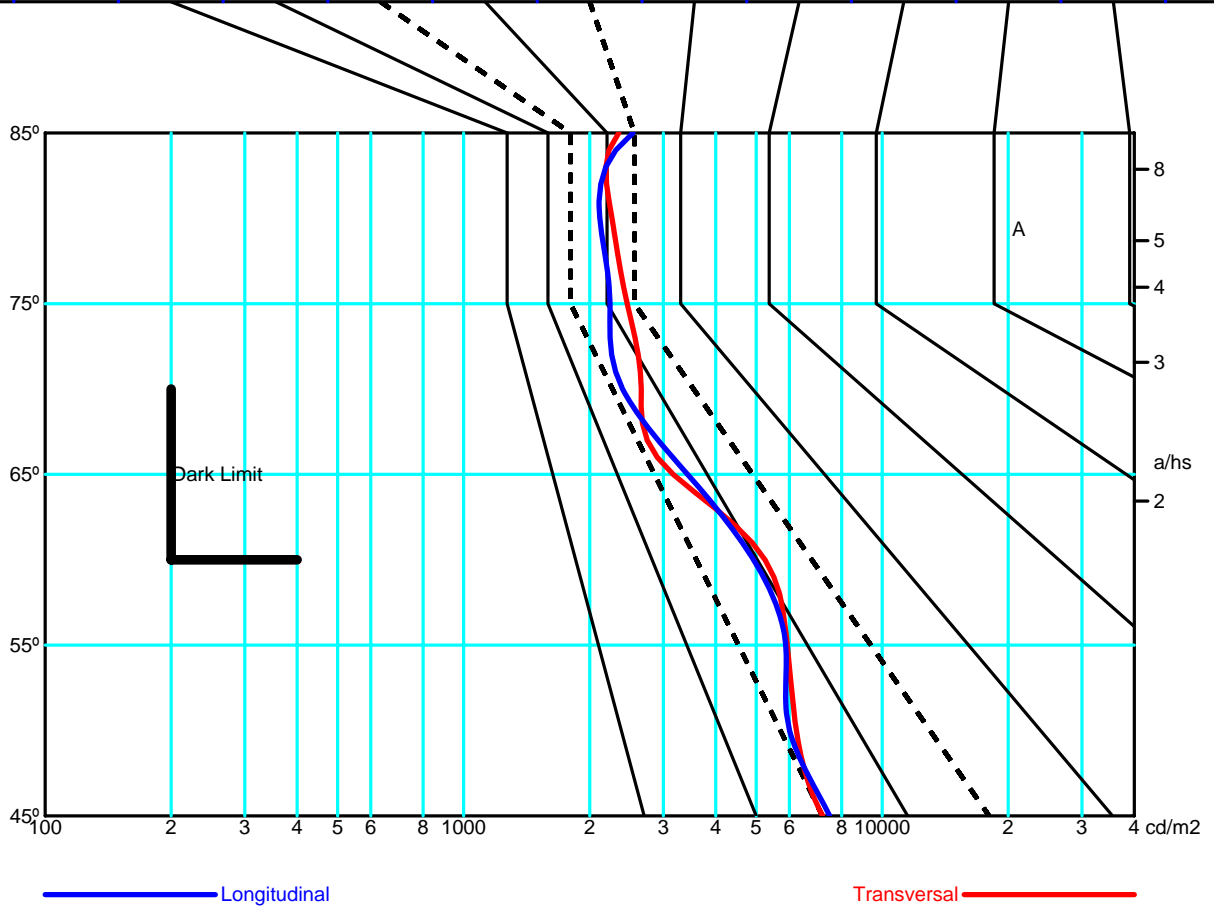
Mounting	Direct	Normalization										Normalised										Suspension Ratio ^b /3										Standard CIE Settings																																																																																																																																																																																																																																																																																							
Ceiling																																																																																																																																																																																																																																																																																																																							
K	8873	8773	8871	8771	7773	7771	7753	7553	7751	7551	7731	7331	7711	7111	5551	5531	5331	5511	5111	3331	3311	1111	0000	0.60	124	111	75	67	106	64	70	60	41	35	25	18	13	9	32	20	17	11	8	17	9	8	0	0.80	148	136	81	75	129	71	92	80	48	42	31	25	18	13	39	26	23	15	13	22	13	12	0	1.00	165	153	82	76	146	73	109	98	52	46	36	29	23	18	44	30	28	20	17	27	18	16	0	1.25	181	171	82	78	162	75	128	116	56	51	41	35	29	23	48	35	33	25	22	31	23	20	0	1.50	194	184	82	78	175	76	142	131	58	54	45	39	33	28	51	39	37	30	26	35	27	24	0	2.00	210	202	79	77	193	74	165	154	61	57	50	45	41	35	54	45	43	37	34	41	34	31	0	2.50	221	214	77	75	205	73	181	171	63	60	54	49	46	41	57	49	47	43	39	45	40	37	0	3.00	229	223	75	73	213	71	193	184	64	61	57	53	51	45	58	52	50	47	44	49	44	41	0	4.00	241	236	74	73	226	71	210	202	66	64	61	57	56	52	61	57	55	53	50	54	50	47	0	5.00	249	245	74	73	234	72	221	215	67	66	64	61	60	56	63	60	59	57	55	57	54	52	0	10.00	266	264	74	73	253	72	247	243	71	70	70	68	69	67	68	67	66	66	65	65	64	62	0	20.00	275	274	74	74	263	73	261	259	73	73	74	73	74	73	71	71	71	72	71	69	70	68	0
Wall																																																																																																																																																																																																																																																																																																																							
K	8873	8773	8871	8771	7773	7771	7753	7553	7751	7551	7731	7331	7711	7111	5551	5531	5331	5511	5111	3331	3311	1111	0000	0.60	224	217	162	158	214	156	168	163	126	124	106	103	91	90	122	104	103	90	89	102	90	89	73	0.80	250	242	173	169	237	167	193	187	139	136	119	116	104	102	134	116	115	103	102	114	102	101	82	1.00	262	255	172	169	248	166	206	200	142	139	124	121	110	107	136	120	119	108	107	118	106	105	84	1.25	275	268	173	170	259	166	221	213	145	143	129	126	116	113	139	125	124	113	112	122	111	110	86	1.50	284	277	172	169	266	166	231	224	147	144	132	129	120	117	140	128	126	117	115	124	114	112	87	2.00	285	279	158	156	267	153	238	230	139	136	127	124	117	114	132	122	120	113	111	117	110	107	79	2.50	282	276	144	143	262	139	238	230	128	126	119	116	111	107	121	113	112	106	104	108	102	99	69	3.00	275	270	130	129	255	125	234	227	116	115	109	106	103	99	109	103	102	97	95	98	93	89	57	4.00	271	267	117	116	250	112	234	228	106	104	100	98	95	92	98	94	93	90	88	88	84	79	46	5.00	266	262	105	104	245	100	231	226	96	95	92	90	88	85	88	85	84	82	80	78	76	70	36	10.00	227	225	53	53	205	48	198	195	47	46	46	45	45	43	39	38	38	37	36	31	30	24	0	20.00	150	149	0	0	127	0	125	123	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Working Pl.																																																																																																																																																																																																																																																																																																																							
K	8873	8773	8871	8771	7773	7771	7753	7553	7751	7551	7731	7331	7711	7111	5551	5531	5331	5511	5111	3331	3311	1111	0000	0.60	631	623	588	584	619	582	564	559	543	540	516	514	498	496	538	514	513	496	496	513	496	495	488	0.80	682	674	628	624	666	620	612	605	584	580	557	554	538	535	577	554	553	536	535	551	534	533	526	1.00	726	717	662	657	708	653	656	648	620	617	596	592	577	574	613	591	590	574	573	588	572	571	564	1.25	763	754	688	684	742	679	694	685	650	646	628	623	610	606	641	622	620	606	604	617	603	600	594	1.50	790	781	706	703	767	697	723	713	671	668	651	646	634	629	661	644	642	629	627	638	625	622	616	2.00	832	824	733	731	807	725	769	759	705	702	689	684	675	670	694	680	678	668	666	673	663	658	653	2.50	860	852	750	748	832	742	800	791	726	723	713	709	702	697	715	704	702	694	691	696	688	682	676	3.00	879	872	761	760	850	753	823	814	741	738	731	726	722	716	729	720	719	713	710	712	705	698	693	4.00	901	895	772	771	870	764	849	841	756	753	748	744	741	736	743	737	735	731	728	726	722	714	708	5.00	914	909	779	778	882	771	865	858	764	762	759	755	753	749	751	746	745	742	739	735	732	722	717	10.00	942	939	791	790	908	783	900	895	781	780	780	778	778	775	767	766	765	765	763	752	752	740	734	20.00	956	954	796	796	921	788	918	916	789	788	790	788	790	788	774	774	774	775	774	760	761	747	741

LM53 SHR C0-C180: 0.679 SHR C90-C270: 0.650 SHR Square: 0.626

Luminaire		Measuram.				Lamp	
Code	15-9708-YA-37	Code	15-9708-YA-37		Code	64824FL GU10	
Name	Downlight GEA 50W GU10	Name	Downlight GEA 50W GU10		Number	1	
Line	- LEDS-C4	Date	02-11-2015		Position	Universal	
Luminaire Flux	219.40 lm	Luminaire Power	50.00 W	Efficacy	4.39 lm/W	Efficiency	73.13%
Lamps Flux	300.00 lm	Maximum value	415.26 cd	Position	C=45.00 G=5.00	CG Double Symmetrical	

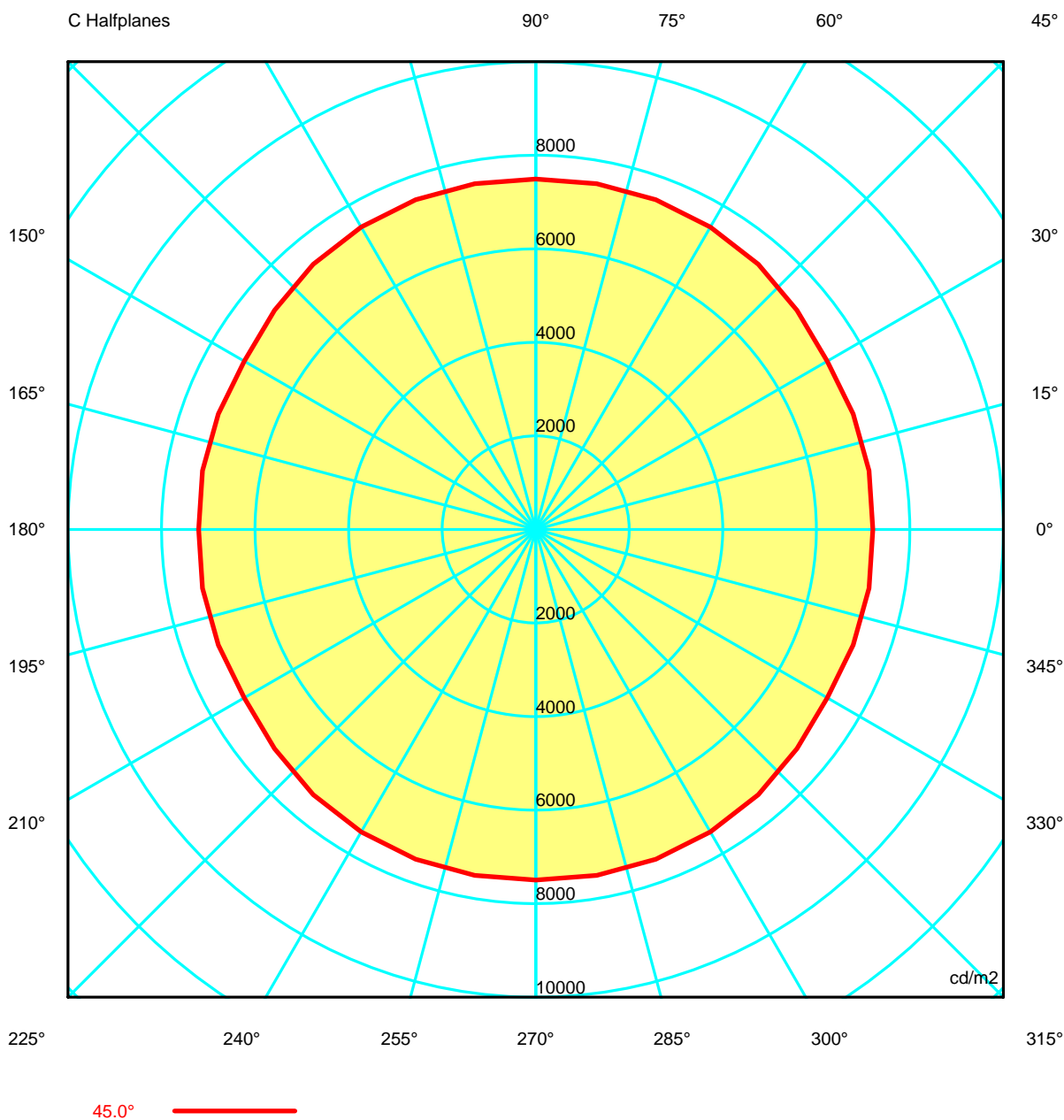
Average Luminance [cd/m ²]										
0.0°	45°	50°	55°	60°	65°	70°	75°	80°	85°	
90.0°	7208	6242	5931	5250	3165	2657	2459	2261	2348	---
	7493	6007	5880	4925	3427	2397	2237	2114	2539	---

Flush mounted or longitudinal view												
		Illumination(lx)										
A	A	2000	1000	750	500		<300				1.15	
B	1		2000	1500	1000	750	500	<300			1.5	
C					2000		1000	500	<300		1.85	
D	2						2000	1000	500	<300	2.2	
E	3							2000	1000	500	<300	2.55



Luminaire		Measurem.		Lamp			
Code	15-9708-YA-37	Code	15-9708-YA-37	Code	64824FL GU10		
Name	Downlight GEA 50W GU10	Name	Downlight GEA 50W GU10	Number	1		
Line	- LEDS-C4	Date	02-11-2015	Position	Universal		
Luminaire Flux	219.40 lm	Luminaire Power	50.00 W	Efficacy	4.39 lm/W	Efficiency	73.13%
Lamps Flux	300.00 lm	Maximum value	415.26 cd	Position	C=45.00 G=5.00	CG Double Symmetrical	

Luminance



Luminaire	Code 15-9708-YA-37	Measurement	Code 15-9708-YA-37	Lamp	Code 64824FL GU10
Name	Downlight GEA 50W GU10	Name	Downlight GEA 50W GU10	Number	1
Line	- LEDS-C4	Date	02-11-2015	Position	Universal

Luminaire Flux	219.40 lm	Luminaire Power	50.00 W	Efficacy	4.39 lm/W	Efficiency	73.13%
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Lamps Flux	300.00 lm	Maximum value	415.26 cd	Position	C=45.00 G=5.00	CG	Double Symmetrical
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Luminance cd/m2 Table 1/3

	C 0.00	C 10.00	C 20.00	C 30.00	C 40.00	C 50.00	C 60.00	C 70.00	C 80.00	C 90.00	C 100.00	C 110.00	C 120.00
G 0.0	191161.39	191161.39	191161.39	191161.39	191161.39	191161.39	191161.39	191161.39	191161.39	191161.39	191161.39	191161.39	191161.39
G 5.0	195081.90	195509.23	195926.60	196231.86	196290.23	196184.63	195678.70	194462.49	193394.63	192813.63	193394.63	194462.49	195678.70
G 10.0	180727.61	181930.48	183051.76	184065.89	184984.93	185737.76	185957.81	185140.18	183332.11	180925.74	183332.11	185140.18	185957.81
G 15.0	146683.10	145711.90	144583.80	143709.24	143876.83	145155.74	147719.58	151091.32	151221.14	147524.98	151221.14	151091.32	147719.58
G 20.0	109402.00	105242.19	103922.33	103918.62	104419.90	104393.14	103595.23	103282.29	102018.86	99425.69	102018.86	103282.29	103595.23
G 25.0	55347.17	58758.45	59141.43	58302.38	58492.69	57803.95	56700.86	58336.60	60528.75	61896.93	60528.75	58336.60	56700.86
G 30.0	29009.23	28561.44	28875.74	29602.81	29728.40	29929.60	30264.45	30047.29	29870.34	29840.79	29870.34	30047.29	30264.45
G 35.0	21521.31	20817.96	20764.86	21046.24	20826.23	20950.43	21325.10	20950.48	20644.72	20817.33	20644.72	20950.48	21325.10
G 40.0	11639.26	11336.29	11107.57	11017.56	11076.92	11132.49	11279.24	11700.09	11801.81	11424.98	11801.81	11700.09	11279.24
G 45.0	7207.60	7236.65	7221.28	7196.36	7290.50	7401.44	7466.27	7502.17	7508.48	7493.03	7508.48	7502.17	7466.27
G 50.0	6241.98	5994.67	5941.83	6021.30	6003.57	5999.81	6085.93	6192.85	6171.07	6006.84	6171.07	6192.85	6085.93
G 55.0	5930.83	5800.31	5948.14	6146.67	5947.13	5977.97	6230.77	6055.08	5908.58	5879.98	5908.58	6055.08	6230.77
G 60.0	5250.09	5416.47	5890.71	6274.45	5909.41	5829.45	6087.57	5705.69	5202.99	4924.82	5202.99	5705.69	6087.57
G 65.0	3164.73	3232.66	3360.89	3523.29	3614.66	3562.56	3463.70	3492.91	3504.12	3426.76	3504.12	3492.91	3463.70
G 70.0	2656.85	2655.43	2647.99	2634.73	2629.41	2588.54	2520.27	2479.03	2443.31	2397.44	2443.31	2479.03	2520.27
G 75.0	2459.42	2470.82	2463.55	2438.47	2410.70	2375.77	2340.10	2317.06	2285.06	2236.82	2285.06	2317.06	2340.10
G 80.0	2260.62	2237.08	2210.45	2193.22	2198.68	2184.65	2158.31	2165.81	2157.69	2114.31	2157.69	2165.81	2158.31
G 85.0	2347.61	2331.75	2325.41	2339.72	2377.68	2405.66	2435.70	2506.68	2537.24	2538.80	2537.24	2506.68	2435.70
G 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Luminaire	Code 15-9708-YA-37	Measur.	Code 15-9708-YA-37	Lamp	Code 64824FL GU10
Name	Downlight GEA 50W GU10	Name	Downlight GEA 50W GU10	Number	1
Line	- LEDS-C4	Date	02-11-2015	Position	Universal

Luminaire Flux	219.40 lm	Luminaire Power	50.00 W	Efficacy	4.39 lm/W	Efficiency	73.13%
Lamps Flux	300.00 lm	Maximum value	415.26 cd	Position	C=45.00 G=5.00	CG Double Symmetrical	

Luminance cd/m2 Table 2/3

	C 130.00	C 140.00	C 150.00	C 160.00	C 170.00	C 180.00	C 190.00	C 200.00	C 210.00	C 220.00	C 230.00	C 240.00	C 250.00
G 0.0	191161.39	191161.39	191161.39	191161.39	191161.39	191161.39	191161.39	191161.39	191161.39	191161.39	191161.39	191161.39	191161.39
G 5.0	196184.63	196290.23	196231.86	195926.60	195509.23	195081.90	195509.23	195926.60	196231.86	196290.23	196184.63	195678.70	194462.49
G 10.0	185737.76	184984.93	184065.89	183051.76	181930.48	180727.61	181930.48	183051.76	184065.89	184984.93	185737.76	185957.81	185140.18
G 15.0	145155.74	143876.83	143709.24	144583.80	145711.90	146683.10	145711.90	144583.80	143709.24	143876.83	145155.74	147719.58	151091.32
G 20.0	104393.14	104419.90	103918.62	103922.33	105242.19	109402.00	105242.19	103922.33	103918.62	104419.90	104393.14	103595.23	103282.29
G 25.0	57803.95	58492.69	58302.38	59141.43	58758.45	55347.17	58758.45	59141.43	58302.38	58492.69	57803.95	56700.86	58336.60
G 30.0	29929.60	29728.40	29602.81	28875.74	28561.44	29009.23	28561.44	28875.74	29602.81	29728.40	29929.60	30264.45	30047.29
G 35.0	20950.43	20826.23	21046.24	20764.86	20817.96	21521.31	20817.96	20764.86	21046.24	20826.23	20950.43	21325.10	20950.48
G 40.0	11132.49	11076.92	11017.56	11107.57	11336.29	11639.26	11336.29	11107.57	11017.56	11076.92	11132.49	11279.24	11700.09
G 45.0	7401.44	7290.50	7196.36	7221.28	7236.65	7207.60	7236.65	7221.28	7196.36	7290.50	7401.44	7466.27	7502.17
G 50.0	5999.81	6003.57	6021.30	5941.83	5994.67	6241.98	5994.67	5941.83	6021.30	6003.57	5999.81	6085.93	6192.85
G 55.0	5977.97	5947.13	6146.67	5948.14	5800.31	5930.83	5800.31	5948.14	6146.67	5947.13	5977.97	6230.77	6055.08
G 60.0	5829.45	5909.41	6274.45	5890.71	5416.47	5250.09	5416.47	5890.71	6274.45	5909.41	5829.45	6087.57	5705.69
G 65.0	3562.56	3614.66	3523.29	3360.89	3232.66	3164.73	3232.66	3360.89	3523.29	3614.66	3562.56	3463.70	3492.91
G 70.0	2588.54	2629.41	2634.73	2647.99	2655.43	2656.85	2655.43	2647.99	2634.73	2629.41	2588.54	2520.27	2479.03
G 75.0	2375.77	2410.70	2438.47	2463.55	2470.82	2459.42	2470.82	2463.55	2438.47	2410.70	2375.77	2340.10	2317.06
G 80.0	2184.65	2198.68	2193.22	2210.45	2237.08	2260.62	2237.08	2210.45	2193.22	2198.68	2184.65	2158.31	2165.81
G 85.0	2405.66	2377.68	2339.72	2325.41	2331.75	2347.61	2331.75	2325.41	2339.72	2377.68	2405.66	2435.70	2506.68
G 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Luminaire	Code 15-9708-YA-37	Measur.	Code 15-9708-YA-37	Lamp	Code 64824FL GU10
	Name Downlight GEA 50W GU10		Name Downlight GEA 50W GU10		Number 1
	Line - LEDS-C4		Date 02-11-2015		Position Universal

Luminaire Flux	219.40 lm	Luminaire Power	50.00 W	Efficacy	4.39 lm/W	Efficiency	73.13%
Lamps Flux	300.00 lm	Maximum value	415.26 cd	Position	C=45.00 G=5.00	CG	Double Symmetrical

Luminance cd/m2 Table 3/3

	C 260.00	C 270.00	C 280.00	C 290.00	C 300.00	C 310.00	C 320.00	C 330.00	C 340.00	C 350.00
G 0.0	191161.39	191161.39	191161.39	191161.39	191161.39	191161.39	191161.39	191161.39	191161.39	191161.39
G 5.0	193394.63	192813.63	193394.63	194462.49	195678.70	196184.63	196290.23	196231.86	195926.60	195509.23
G 10.0	183332.11	180925.74	183332.11	185140.18	185957.81	185737.76	184984.93	184065.89	183051.76	181930.48
G 15.0	151221.14	147524.98	151221.14	151091.32	147719.58	145155.74	143876.83	143709.24	144583.80	145711.90
G 20.0	102018.86	99425.69	102018.86	103282.29	103595.23	104393.14	104419.90	103918.62	103922.33	105242.19
G 25.0	60528.75	61896.93	60528.75	58336.60	56700.86	57803.95	58492.69	58302.38	59141.43	58758.45
G 30.0	29870.34	29840.79	29870.34	30047.29	30264.45	29929.60	29728.40	29602.81	28875.74	28561.44
G 35.0	20644.72	20817.33	20644.72	20950.48	21325.10	20950.43	20826.23	21046.24	20764.86	20817.96
G 40.0	11801.81	11424.98	11801.81	11700.09	11279.24	11132.49	11076.92	11017.56	11107.57	11336.29
G 45.0	7508.48	7493.03	7508.48	7502.17	7466.27	7401.44	7290.50	7196.36	7221.28	7236.65
G 50.0	6171.07	6006.84	6171.07	6192.85	6085.93	5999.81	6003.57	6021.30	5941.83	5994.67
G 55.0	5908.58	5879.98	5908.58	6055.08	6230.77	5977.97	5947.13	6146.67	5948.14	5800.31
G 60.0	5202.99	4924.82	5202.99	5705.69	6087.57	5829.45	5909.41	6274.45	5890.71	5416.47
G 65.0	3504.12	3426.76	3504.12	3492.91	3463.70	3562.56	3614.66	3523.29	3360.89	3232.66
G 70.0	2443.31	2397.44	2443.31	2479.03	2520.27	2588.54	2629.41	2634.73	2647.99	2655.43
G 75.0	2285.06	2236.82	2285.06	2317.06	2340.10	2375.77	2410.70	2438.47	2463.55	2470.82
G 80.0	2157.69	2114.31	2157.69	2165.81	2158.31	2184.65	2198.68	2193.22	2210.45	2237.08
G 85.0	2537.24	2538.80	2537.24	2506.68	2435.70	2405.66	2377.68	2339.72	2325.41	2331.75
G 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00