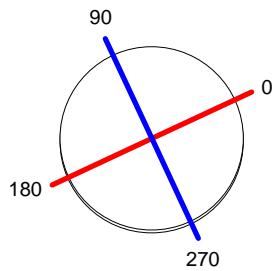


Luminaire		Measur.		Lamp			
Code	55-9380-CA-37	Code	55-9380-CA-37	Code	64824FL GU10		
Name	Uplight GEA 50W GU10	Name	Uplight GEA 50W GU10	Number	1		
Line	- LEDS-C4	Date	02-11-2015	Position	Universal		
Luminaire Flux	245.08 lm	Luminaire Power	50.00 W	Efficacy	4.90 lm/W	Efficiency	81.69%
Lamps Flux	300.00 lm	Maximum value	439.78 cd	Position	C=90.00 G=5.00	CG Double Symmetrical	
Round Recessed Luminaire Round Luminous Area	Diam. 125 mm Diam. 52 mm	Height	4 mm	Height	0 mm		
Horizontal Luminous Area Emitting area on Plane 0° Emitting area on Plane 90°	0.002124 m2 0.000000 m2 0.000000 m2	Emitting area on Plane 180° Emitting area on Plane 270° Glare area at 76°	0.000000 m2 0.000000 m2 0.000514 m2				
Coordinate system Date Measurement Distance	CG 02-11-2015 0.51	Symmetry Type Maximum Gamma Angle Measurement Flux	Double Symmetrical 90 386.00 lm				
Operator Temperature Humidity Notes	Asselum T3 20.00 °C 66.00 %	Source voltage Source current Photocell	230.00 V Czibula Grundmann				

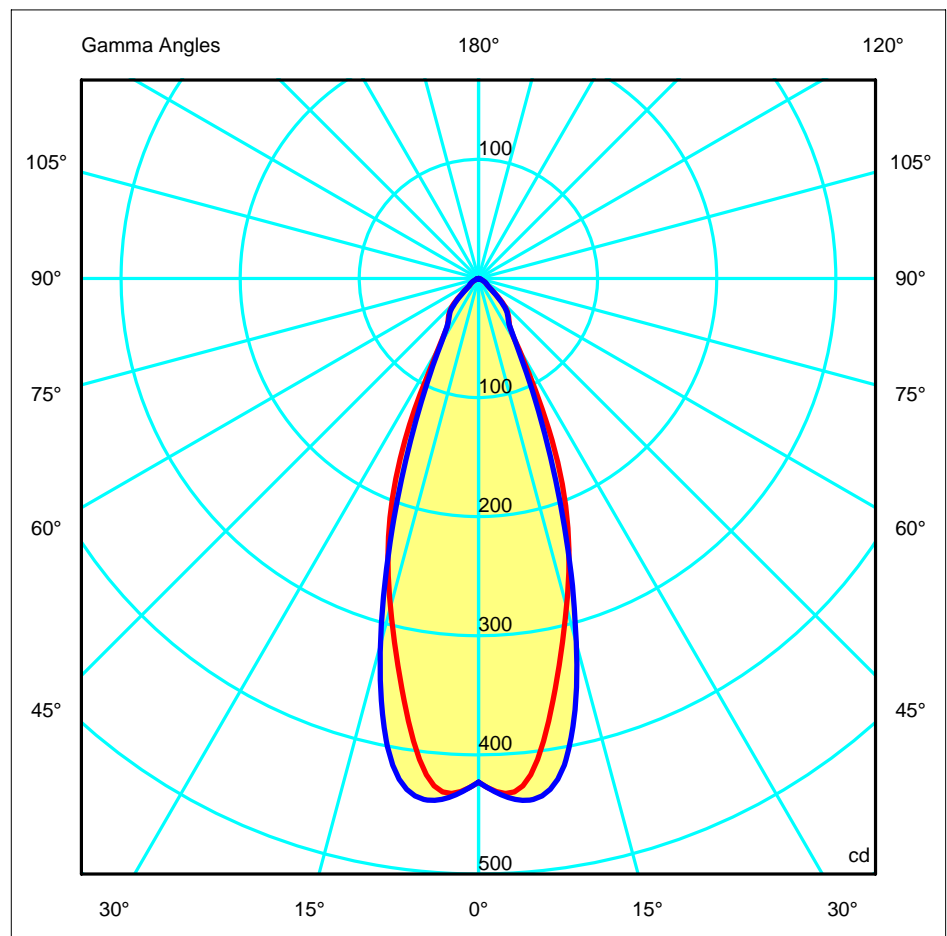
Line	Code	Luminaire Lamps Name	Flux [lm]	Pow. [W]	Q.ty
OSRAM 2006 HS, HM, HD, HR	64824FL GU10	HALOGEN ALU 50W GU10 35°	300.00	50.00	1
C.I.E.	88 98 100 100 82	D DIN 5040	A60		
F UTE	0.82 A	B NBN	BZ 1		

Diam=125mm Incasso



C Halfplanes
180.0 — 0.0
270.0 — 90.0

ULOR 0.00 %
DLOR 81.69 %
RN 0.00 %



Luminaire	Code 55-9380-CA-37	Measurement	Code 55-9380-CA-37	Lamp	Code 64824FL GU10
	Name Uplight GEA 50W GU10		Name Uplight GEA 50W GU10		Number 1
	Line - LEDS-C4		Date 02-11-2015		Position Universal

Luminaire Flux	245.08 lm	Luminaire Power	50.00 W	Efficacy	4.90 lm/W	Efficiency	81.69%
Lamps Flux	300.00 lm	Maximum value	439.78 cd	Position	C=90.00 G=5.00	CG	Double Symmetrical

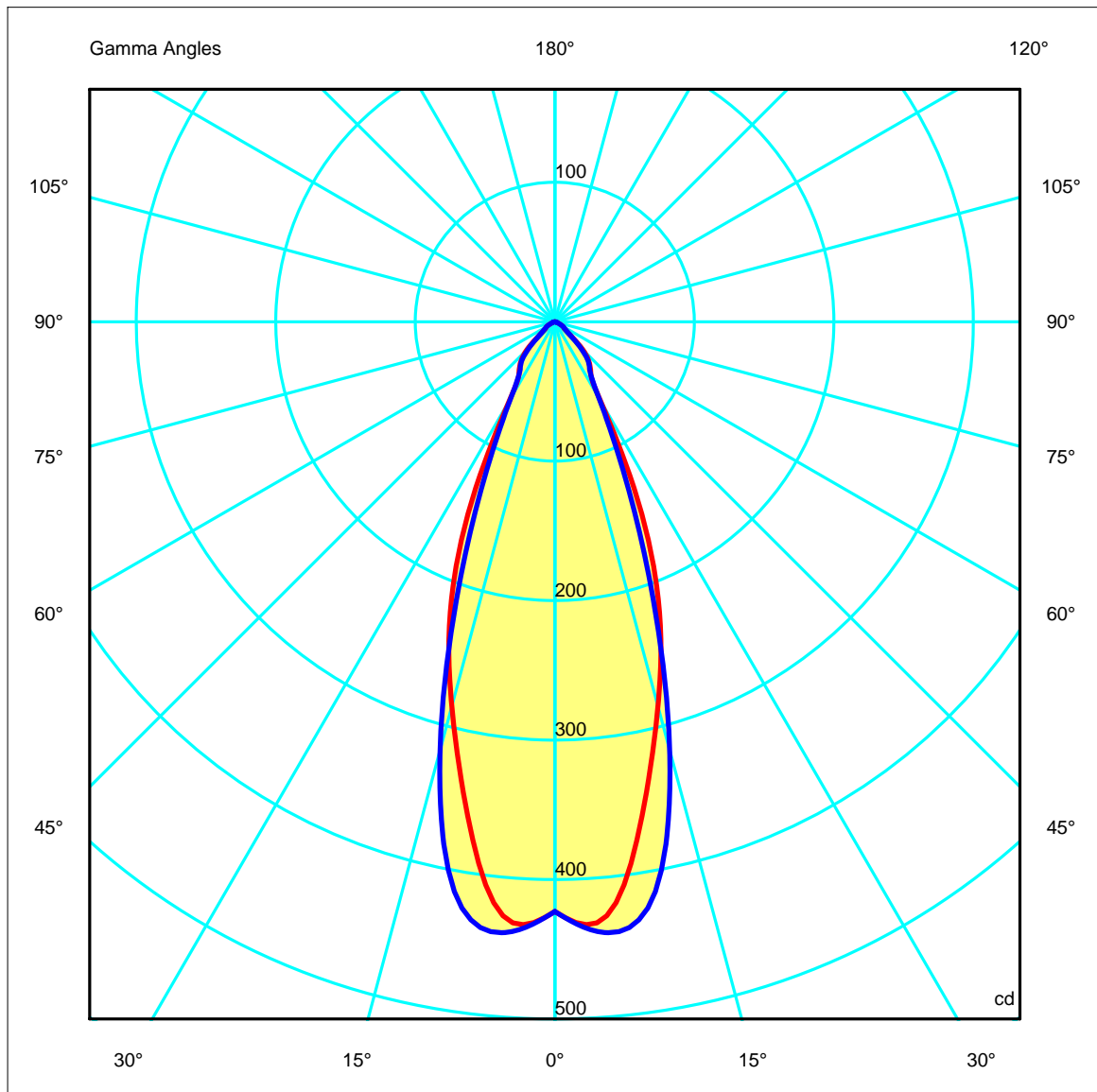
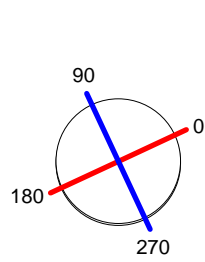
Luminous Intensity Table cd Table 1/1

	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00
G 0.0	422.89	422.89	422.89	422.89	422.89	422.89	422.89
G 5.0	427.57	429.67	429.72	433.92	435.38	438.61	439.78
G 10.0	359.77	369.24	382.70	394.13	400.38	411.97	414.85
G 15.0	285.35	288.69	294.48	302.41	302.83	315.42	317.57
G 20.0	218.63	227.74	215.26	207.67	200.16	204.88	200.59
G 25.0	139.33	129.28	123.00	121.11	117.78	116.69	112.51
G 30.0	65.02	66.55	67.81	66.16	65.06	64.27	63.07
G 35.0	44.76	45.32	45.84	44.12	44.70	44.75	43.89
G 40.0	38.37	38.81	38.72	37.04	39.19	37.52	37.34
G 45.0	28.18	26.33	26.71	25.10	24.86	25.35	25.14
G 50.0	12.77	12.94	12.47	12.58	12.12	12.07	12.54
G 55.0	7.94	8.23	8.15	8.45	8.22	8.22	8.91
G 60.0	6.67	6.58	6.29	6.30	6.16	6.10	6.64
G 65.0	3.57	3.43	3.52	3.89	3.55	3.92	4.00
G 70.0	2.00	1.98	2.07	2.04	2.03	2.14	2.04
G 75.0	1.19	1.19	1.20	1.20	1.22	1.24	1.26
G 80.0	0.70	0.71	0.71	0.72	0.73	0.75	0.76
G 85.0	0.42	0.42	0.42	0.43	0.44	0.46	0.47
G 90.0	0.32	0.32	0.33	0.33	0.35	0.37	0.39

Luminaire		Measurem.		Lamp			
Code	55-9380-CA-37	Code	55-9380-CA-37	Code	64824FL GU10		
Name	Uplight GEA 50W GU10	Name	Uplight GEA 50W GU10	Number	1		
Line	- LEDS-C4	Date	02-11-2015	Position	Universal		
Luminaire Flux	245.08 lm	Luminaire Power	50.00 W	Efficacy	4.90 lm/W	Efficiency	81.69%
Lamps Flux	300.00 lm	Maximum value	439.78 cd	Position	C=90.00 G=5.00	CG	Double Symmetrical

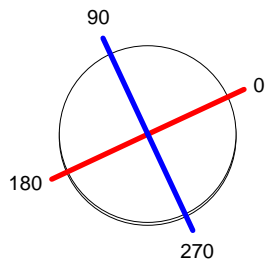
Diam=125mm Incasso

C Halfplanes



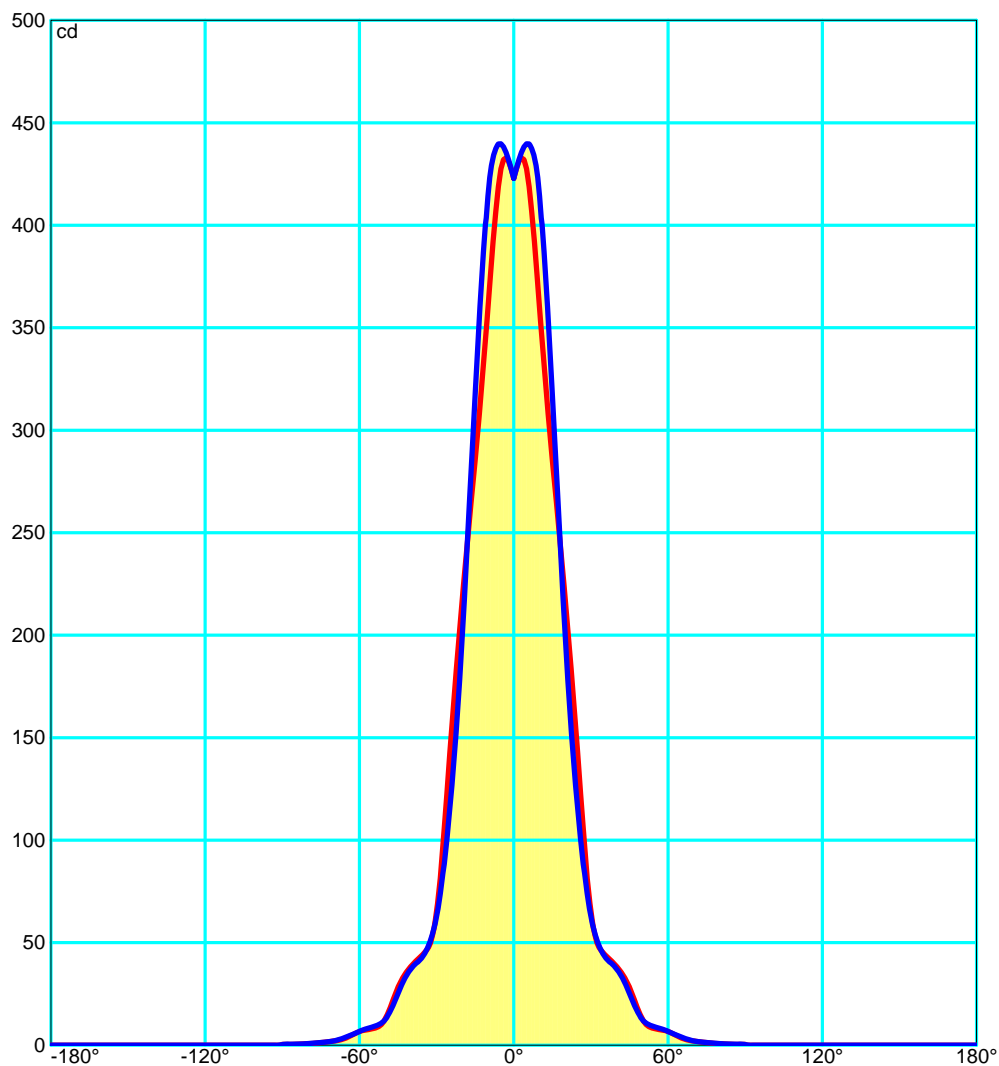
Luminaire		Measurem.		Lamp			
Code	55-9380-CA-37	Code	55-9380-CA-37	Code	64824FL GU10		
Name	Uplight GEA 50W GU10	Name	Uplight GEA 50W GU10	Number	1		
Line	- LEDS-C4	Date	02-11-2015	Position	Universal		
Luminaire Flux	245.08 lm	Luminaire Power	50.00 W	Efficacy	4.90 lm/W	Efficiency	81.69%
Lamps Flux	300.00 lm	Maximum value	439.78 cd	Position	C=90.00 G=5.00	CG	Double Symmetrical

Diam=125mm Incasso



C Halfplanes

180.0 ————— 0.0
 270.0 ————— 90.0



Luminaire		Measur.			Lamp		
Code	55-9380-CA-37	Code	55-9380-CA-37	Code	64824FL GU10		
Name	Uplight GEA 50W GU10	Name	Uplight GEA 50W GU10	Number	1		
Line	- LEDS-C4	Date	02-11-2015	Position	Universal		
Luminaire Flux	245.08 lm	Luminaire Power	50.00 W	Efficacy	4.90 lm/W	Efficiency	81.69%
Lamps Flux	300.00 lm	Maximum value	439.78 cd	Position	C=90.00 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	16.3	17.1	16.6	17.3	17.4	16.2	17.0	16.4	17.1	17.4
x=2H y=3H	16.4	17.2	16.7	17.4	17.5	16.4	17.1	16.7	17.3	17.5
x=2H y=4H	16.5	17.1	16.8	17.4	17.6	16.4	17.0	16.7	17.3	17.6
x=2H y=6H	16.5	17.1	16.8	17.4	17.6	16.4	17.0	16.7	17.3	17.6
x=2H y=8H	16.5	17.0	16.8	17.3	17.6	16.4	17.0	16.8	17.3	17.6
x=2H y=12H	16.5	17.0	16.8	17.3	17.6	16.4	17.0	16.8	17.3	17.6
x=4H y=2H	16.4	17.1	16.7	17.3	17.4	16.3	16.9	16.6	17.2	17.4
x=4H y=3H	16.6	17.1	16.9	17.4	17.7	16.5	17.1	16.9	17.4	17.7
x=4H y=4H	16.6	17.1	17.0	17.5	17.7	16.6	17.1	17.0	17.4	17.7
x=4H y=6H	16.7	17.1	17.1	17.5	17.8	16.6	17.0	17.0	17.4	17.8
x=4H y=8H	16.7	17.1	17.1	17.4	17.8	16.7	17.0	17.1	17.4	17.8
x=4H y=12H	16.7	17.0	17.2	17.4	17.8	16.7	17.0	17.1	17.4	17.8
x=8H y=4H	16.6	17.0	17.0	17.4	17.7	16.6	16.9	17.0	17.3	17.7
x=8H y=6H	16.7	17.0	17.1	17.4	17.8	16.7	16.9	17.1	17.3	17.8
x=8H y=8H	16.7	17.0	17.2	17.4	17.8	16.7	16.9	17.2	17.4	17.8
x=8H y=12H	16.8	17.0	17.3	17.4	17.9	16.8	16.9	17.2	17.4	17.9
x=12H y=4H	16.6	16.9	17.0	17.3	17.7	16.5	16.9	17.0	17.2	17.7
x=12H y=6H	16.7	16.9	17.1	17.3	17.8	16.6	16.9	17.1	17.3	17.8
x=12H y=8H	16.7	16.9	17.2	17.4	17.8	16.7	16.9	17.2	17.3	17.8

Luminaire		Measur.		Lamp			
Code	55-9380-CA-37	Code	55-9380-CA-37	Code	44824FL GU10		
Name	Uplight GEA 50W GU10	Name	Uplight GEA 50W GU10	Number	1		
Line	- LEDS-C4	Date	02-11-2015	Position	Universal		
Luminaire Flux	245.08 lm	Luminaire Power	50.00 W	Efficacy	4.90 lm/W	Efficiency	81.69%
Lamps Flux	300.00 lm	Maximum value	439.78 cd	Position	C=90.00 G=5.00	CG	Double Symmetrical

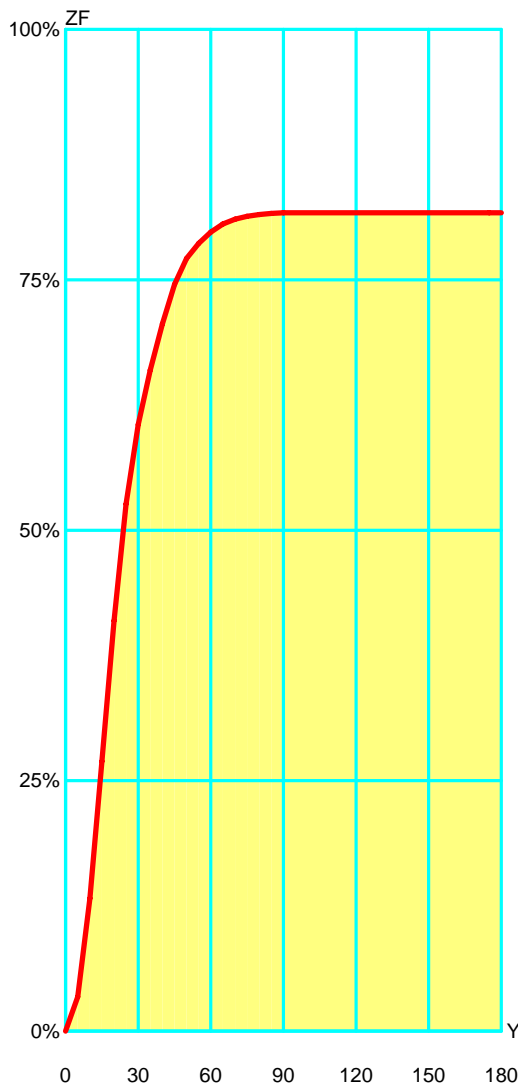
Total Flux=300.00 Luminaire Flux=245.08

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	0.63	0.69	0.75	0.79	0.83	0.88	0.91	0.94	0.96	0.97	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)	132	410	606	706	771	798	811	80	815	817	817	817	817	817	817	817	817	817

CIE Flux Codes
88 98 100 100 82

C.I.E.	-/-/-/-/-/-/-/-/-/-	LOR	81.69345 %
D DIN 5040	A60	ULOR	0.00000 %
F UTE	0.82 A	DLOR	81.69345 %
B NBN	BZ 1	UFF	0.00000 %
RN	0.00000 %	DFF	100.00000 %
BLF	1.0	FFR	0.00000 %



Gamma °	Zonal Flux			
	Flux	Sum lm	Flux [%]	Sum [%]
0°	0.00	0.00	0.00%	0.00 %
5°	34.13	34.13	4.18 %	4.18 %
10°	98.31	132.44	12.03 %	16.21 %
15°	136.80	269.23	16.75 %	32.96 %
20°	140.59	409.82	17.21 %	50.17 %
25°	116.48	526.31	14.26 %	64.42 %
30°	79.28	605.59	9.70 %	74.13 %
35°	54.24	659.82	6.64 %	80.77 %
40°	46.18	706.00	5.65 %	86.42 %
45°	39.51	745.52	4.84 %	91.26 %
50°	25.80	771.32	3.16 %	94.42 %
55°	15.04	786.36	1.84 %	96.26 %
60°	11.27	797.63	1.38 %	97.64 %
65°	8.13	805.76	0.99 %	98.63 %
70°	4.84	810.59	0.59 %	99.22 %
75°	2.84	813.44	0.35 %	99.57 %
80°	1.73	815.17	0.21 %	99.78 %
85°	1.05	816.22	0.13 %	99.91 %
90°	0.71	816.93	0.09 %	100.00 %
95°	0.00	816.93	0.00 %	100.00 %
100°	0.00	816.93	0.00 %	100.00 %
105°	0.00	816.93	0.00 %	100.00 %
110°	0.00	816.93	0.00 %	100.00 %
115°	0.00	816.93	0.00 %	100.00 %
120°	0.00	816.93	0.00 %	100.00 %
125°	0.00	816.93	0.00 %	100.00 %
130°	0.00	816.93	0.00 %	100.00 %
135°	0.00	816.93	0.00 %	100.00 %
140°	0.00	816.93	0.00 %	100.00 %
145°	0.00	816.93	0.00 %	100.00 %
150°	0.00	816.93	0.00 %	100.00 %
155°	0.00	816.93	0.00 %	100.00 %
160°	0.00	816.93	0.00 %	100.00 %
165°	0.00	816.93	0.00 %	100.00 %
170°	0.00	816.93	0.00 %	100.00 %
175°	0.00	816.93	0.00 %	100.00 %
180°	0.00	816.93	0.00 %	100.00 %

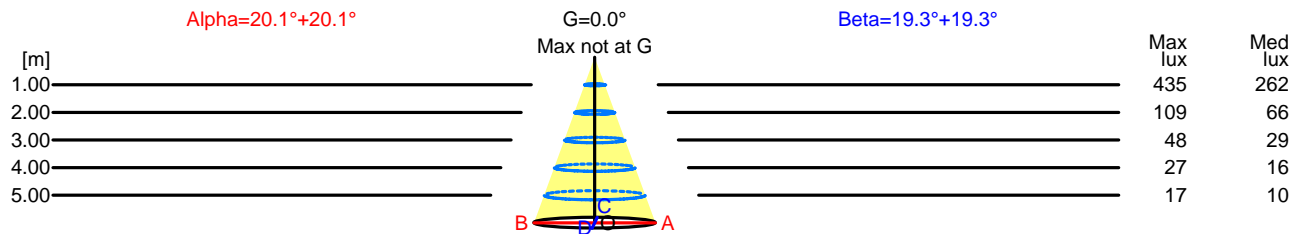
Luminaire		Measuram.		Lamp			
Code	55-9380-CA-37	Code	55-9380-CA-37	Code	64824FL GU10		
Name	Uplight GEA 50W GU10	Name	Uplight GEA 50W GU10	Number	1		
Line	- LEDS-C4	Date	02-11-2015	Position	Universal		
Luminaire Flux	245.08 lm	Luminaire Power	50.00 W	Efficacy	4.90 lm/W	Efficiency	81.69%
Lamps Flux	300.00 lm	Maximum value	439.78 cd	Position	C=90.00 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	0.73	1.10	1.47	1.83	OC	0.35	0.70	1.05	1.40	1.75
OB	0.37	0.73	1.10	1.47	1.83	OD	0.35	0.70	1.05	1.40	1.75

Luminous Intensities [cd]

	0	5	15	25	35	45	55	65	75	85
OA	422.89	427.57	285.35	139.33	44.76	28.18	7.94	3.57	1.19	0.42
OB	422.89	427.57	285.35	139.33	44.76	28.18	7.94	3.57	1.19	0.42
OC	422.89	439.78	317.57	112.51	43.89	25.14	8.91	4.00	1.26	0.47
OD	422.89	439.78	317.57	112.51	43.89	25.14	8.91	4.00	1.26	0.47



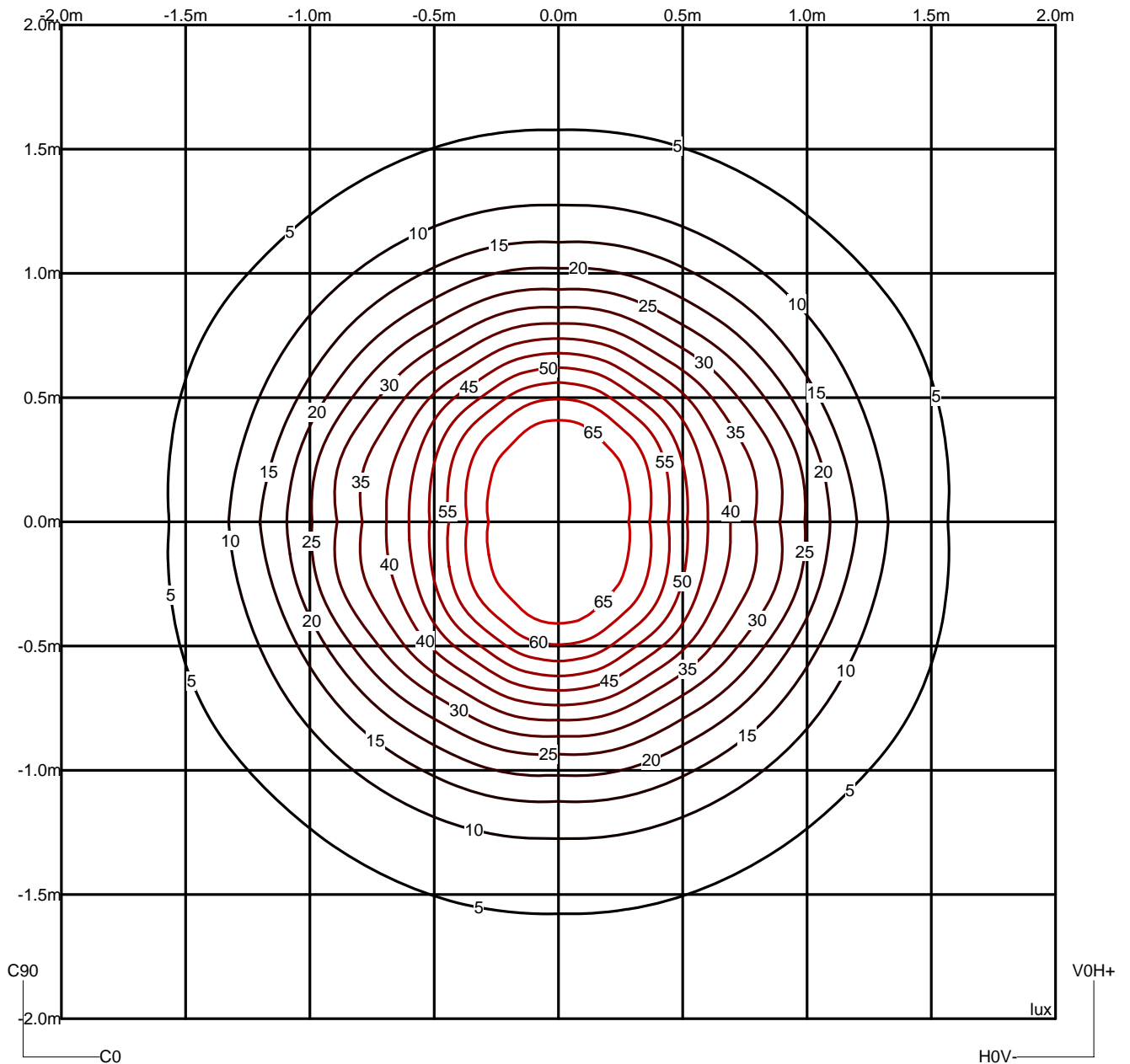
H[m]	D[m]	Max lux	Med lux	Alpha=20.1°+20.1°	G=0.0 Max not at G
1.00	0.73	435	262		
2.00	1.47	109	66		
3.00	2.20	48	29		
4.00	2.94	27	16		
5.00	3.67	17	10		

H[m]	D[m]	Max lux	Med lux	Beta=19.3°+19.3°	G=0.0 Max not at G
1.00	0.70	435	262		
2.00	1.40	109	66		
3.00	2.10	48	29		
4.00	2.80	27	16		
5.00	3.50	17	10		

Luminaire		Measuram.		Lamp			
Code	55-9380-CA-37	Code	55-9380-CA-37	Code	64824FL GU10		
Name	Uplight GEA 50W GU10	Name	Uplight GEA 50W GU10	Number	1		
Line	- LEDS-C4	Date	02-11-2015	Position	Universal		
Luminaire Flux	245.08 lm	Luminaire Power	50.00 W	Efficacy	4.90 lm/W	Efficiency	81.69%
Lamps Flux	300.00 lm	Maximum value	439.78 cd	Position	C=90.00 G=5.00	CG Double Symmetrical	

Isolux (Floor)

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



Luminaire				Measur.				Lamp						
Code	55-9380-CA-37			Code	55-9380-CA-37			Code	64824FL GU10					
Name	Uplight GEA 50W GU10			Name	Uplight GEA 50W GU10			Number	1					
Line	- LEDS-C4			Date	02-11-2015			Position	Universal					
Luminaire Flux	245.08 lm			Luminaire Power	50.00 W			Efficacy	4.90 lm/W			Efficiency	81.69%	
Lamps Flux	300.00 lm			Maximum value	439.78 cd			Position	C=90.00 G=5.00			CG Double Symmetrical		

Utilizations CIE

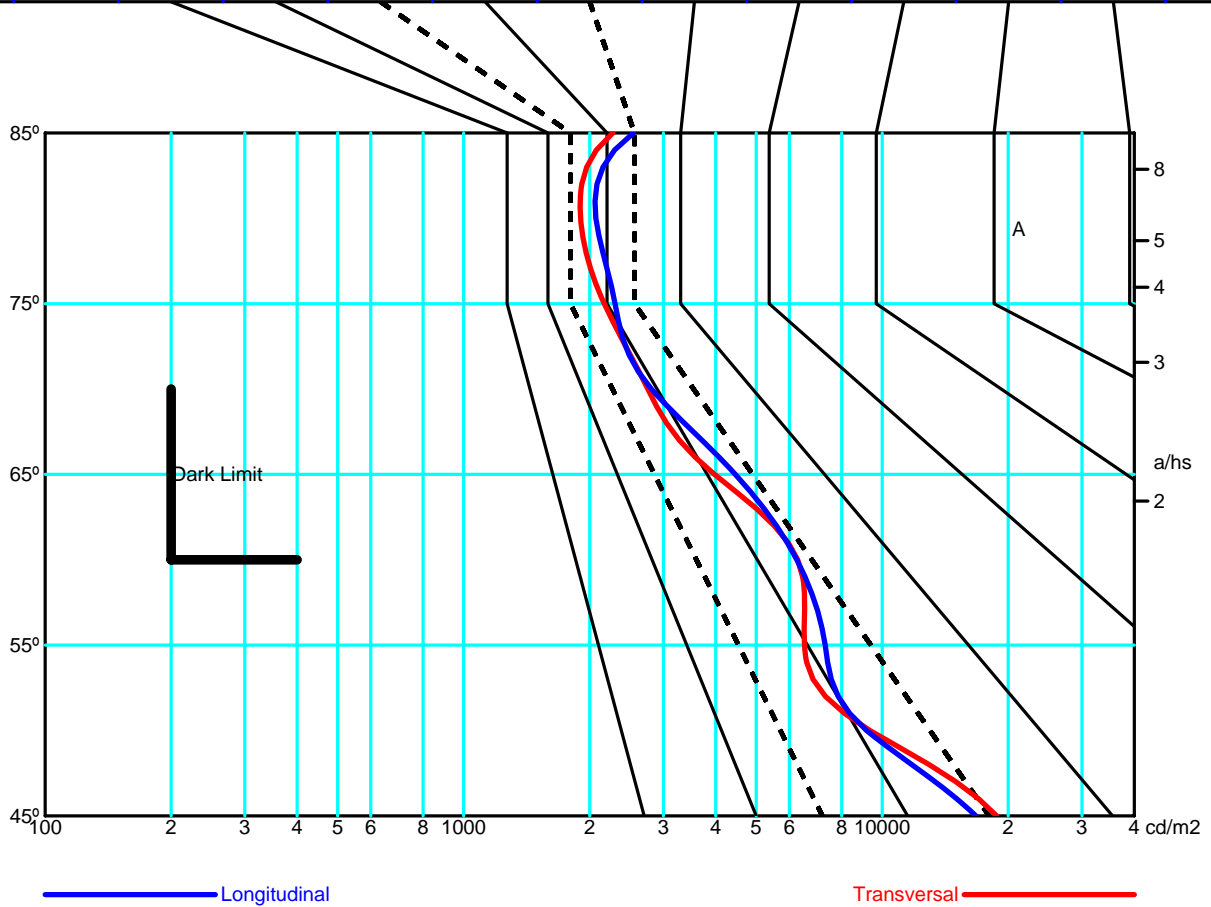
Mounting	Direct	Normalization										Normalised										Suspension Ratio ³										Standard CIE Settings																																																																																																																																																																																																																																																																																							
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	142	127	89	80	121	76	80	68	48	41	28	21	14	10	38	23	20	12	9	19	10	9	0	0.80	169	155	95	88	147	84	103	91	56	49	36	28	20	15	46	30	27	17	14	25	15	13	0	1.00	187	174	95	89	165	85	123	110	60	54	41	34	26	20	50	35	32	22	19	30	20	17	0	1.25	205	193	95	90	184	87	143	130	64	58	46	39	32	26	55	40	37	28	25	36	25	23	0	1.50	219	208	95	91	198	87	160	147	67	62	50	44	37	31	58	45	42	33	29	40	30	27	0	2.00	237	227	91	88	217	85	184	173	69	65	56	51	45	39	62	51	48	41	38	46	38	35	0	2.50	249	241	88	86	230	83	202	191	71	68	61	55	52	46	65	55	53	47	44	51	44	41	0	3.00	258	251	86	84	239	82	216	206	72	69	64	59	56	51	66	59	57	52	49	55	49	46	0	4.00	271	265	85	84	254	82	235	226	75	72	68	65	63	58	70	64	62	59	56	60	56	53	0	5.00	279	275	85	84	263	82	247	240	76	75	72	68	67	63	72	67	66	63	61	64	60	57	0	10.00	298	296	84	84	284	82	276	272	80	79	79	77	77	74	77	75	75	74	72	73	71	69	0	20.00	309	307	84	84	295	83	292	290	83	82	83	82	82	81	80	80	80	80	79	78	78	76	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	262	254	195	191	250	188	197	192	152	149	127	125	110	108	147	125	124	109	108	123	108	107	89	0.80	291	283	207	203	276	199	225	218	166	163	143	139	125	123	161	140	138	123	122	137	122	121	100	1.00	305	296	206	202	288	199	241	233	170	166	148	145	132	129	163	144	143	129	128	141	128	126	102	1.25	319	310	205	202	300	198	256	248	173	170	154	150	138	135	166	149	148	135	134	146	133	131	105	1.50	328	320	204	201	309	197	268	260	175	172	157	153	143	139	167	152	151	139	137	148	137	134	106	2.00	330	323	189	186	309	182	275	267	166	163	152	148	140	136	158	146	144	135	133	141	132	129	97	2.50	327	320	174	172	305	168	276	268	155	153	144	140	134	130	147	137	136	129	127	132	124	121	87	3.00	320	314	159	157	298	153	273	265	143	141	134	130	126	122	134	127	125	120	118	121	115	111	75	4.00	318	314	146	145	295	141	275	269	133	131	126	123	120	117	125	119	118	114	112	112	108	102	65	5.00	315	311	136	136	291	131	275	269	125	124	120	117	115	111	116	112	111	108	106	105	101	95	57	10.00	286	284	92	92	261	87	253	249	85	84	83	81	81	78	75	74	73	72	71	66	64	57	15	20.00	221	220	19	19	196	14	192	190	14	13	13	12	13	12	4	4	3	4	3	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	684	676	639	634	671	631	606	601	584	581	552	550	529	528	579	550	549	528	528	548	528	527	519	0.80	747	737	688	683	729	679	666	658	635	631	603	600	580	577	627	599	598	578	577	596	576	575	567	1.00	799	789	728	723	778	718	718	709	679	675	650	645	627	624	670	645	643	624	623	641	622	620	612	1.25	843	833	760	756	819	750	764	754	715	711	689	684	667	663	705	682	680	663	661	677	660	657	649	1.50	876	866	782	778	849	772	798	787	741	737	717	711	697	692	730	709	707	691	689	703	687	683	676	2.00	924	915	814	811	895	804	852	841	781	777	762	756	745	739	768	752	750	738	735	744	732	727	720	2.50	956	947	834	831	925	824	888	877	806	802	790	785	776	770	792	779	777	768	764	770	760	754	747	3.00	977	970	847	845	945	837	914	903	823	820	810	805	799	793	809	798	796	789	786	788	780	773	767	4.00	1000	996	860	858	968	850	943	934	840	837	830	826	821	816	825	817	815	810	807	806	800	791	784	5.00	1000	1000	867	865	982	857	961	953	849	847	842	838	835	830	834	828	826	822	819	816	811	801	794	10.00	1000	1000	881	880	1000	872	1000	996	869	868	866	864	863	860	852	850	849	848	846	835	834	821	814	20.00	1000	1000	887	887	1000	878	1000	1000	878	877	878	876	878	875	861	861	860	861	860	845	845	830	823

LM53 SHR C0-C180: 0.650 SHR C90-C270: 0.650 SHR Square: 0.635

Luminaire		Measur.		Lamp			
Code	55-9380-CA-37	Code	55-9380-CA-37	Code	64824FL GU10		
Name	Uplight GEA 50W GU10	Name	Uplight GEA 50W GU10	Number	1		
Line	- LEDS-C4	Date	02-11-2015	Position	Universal		
Luminaire Flux	245.08 lm	Luminaire Power	50.00 W	Efficacy	4.90 lm/W	Efficiency	81.69%
Lamps Flux	300.00 lm	Maximum value	439.78 cd	Position	C=90.00 G=5.00	CG Double Symmetrical	

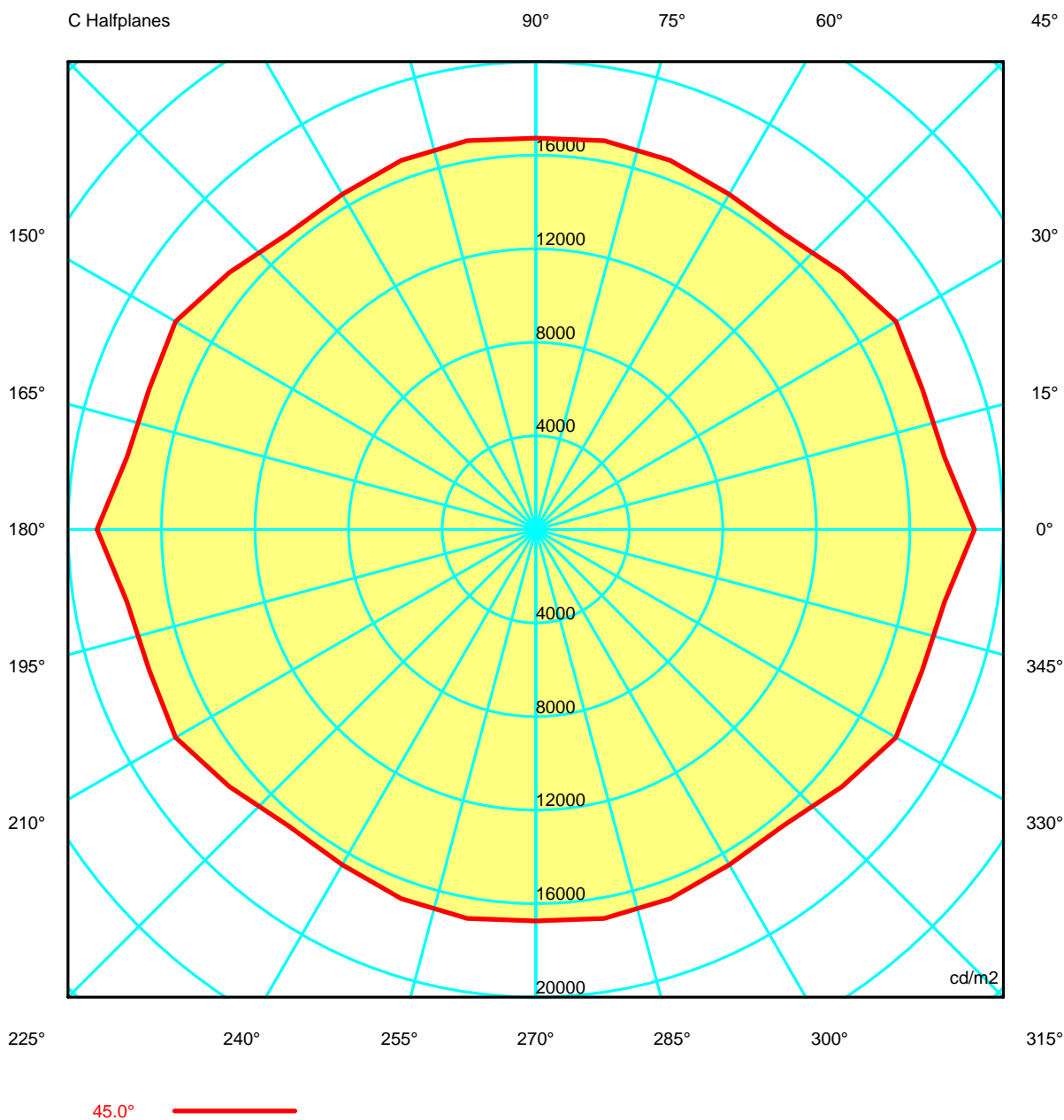
Average Luminance [cd/m ²]										
0.0°	45°	50°	55°	60°	65°	70°	75°	80°	85°	---
90.0°	18760	9352	6520	6281	3973	2754	2167	1903	2272	---
	16736	9183	7310	6251	4456	2809	2300	2069	2545	---

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	55-9380-CA-37	Code	55-9380-CA-37	Code	64824FL GU10		
Name	Uplight GEA 50W GU10	Name	Uplight GEA 50W GU10	Number	1		
Line	- LEDS-C4	Date	02-11-2015	Position	Universal		
Luminaire Flux	245.08 lm	Luminaire Power	50.00 W	Efficacy	4.90 lm/W	Efficiency	81.69%
Lamps Flux	300.00 lm	Maximum value	439.78 cd	Position	C=90.00 G=5.00	CG Double Symmetrical	

Luminance



Luminaire		Measur.						Lamp					
Code	55-9380-CA-37	Code	55-9380-CA-37					Code	64824FL GU10				
Name	Uplight GEA 50W GU10	Name	Uplight GEA 50W GU10					Number	1				
Line	- LEDS-C4	Date	02-11-2015					Position	Universal				
Luminaire Flux	245.08 lm	Luminaire Power	50.00 W	Efficacy	4.90 lm/W	Efficiency	81.69%						
Lamps Flux	300.00 lm	Maximum value	439.78 cd	Position	C=90.00 G=5.00	CG Double Symmetrical							
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	199100.15	199100.15	199100.15	199100.15	199100.15	199100.15	199100.15	199100.15	199100.15	199100.15	199100.15	199100.15	199100.15
G 5.0	202074.42	202895.66	203074.54	203089.84	204420.05	205399.99	205763.55	206779.14	207607.51	207844.47	207607.51	206779.14	205763.55
G 10.0	171995.00	174822.43	178521.90	182957.98	186970.47	189389.81	191410.80	195246.78	197905.23	198326.75	197905.23	195246.78	191410.80
G 15.0	139085.99	140119.89	141411.29	143533.45	146539.29	147469.10	147604.29	151684.31	154090.46	154789.72	154090.46	151684.31	147604.29
G 20.0	109540.75	113736.65	112690.35	107848.42	105180.41	102494.55	100286.95	101836.63	102555.81	100501.82	102555.81	101836.63	100286.95
G 25.0	72380.80	68774.77	65767.50	63895.57	63236.03	62351.25	61186.11	60845.56	60092.43	58445.27	60092.43	60845.56	61186.11
G 30.0	35345.09	35873.47	36516.00	36863.74	36335.15	35697.23	35368.76	35100.90	34743.52	34286.77	34743.52	35100.90	35368.76
G 35.0	25725.91	25900.63	26248.44	26347.55	25642.73	25468.12	25693.79	25796.66	25587.54	25227.17	25587.54	25796.66	25693.79
G 40.0	23583.17	23748.78	23967.10	23799.72	22902.71	23129.63	24083.14	23505.33	23021.54	22950.78	23021.54	23505.33	24083.14
G 45.0	18760.40	17752.37	17590.15	17787.15	17102.60	16507.30	16550.16	16801.05	16883.62	16735.57	16883.62	16801.05	16550.16
G 50.0	9351.59	9498.73	9369.76	9135.57	9197.81	9137.06	8874.46	8794.09	8927.54	9182.78	8927.54	8794.09	8874.46
G 55.0	6519.88	6718.83	6733.18	6691.11	6868.78	6873.27	6750.12	6685.72	6888.04	7310.19	6888.04	6685.72	6750.12
G 60.0	6280.96	6254.35	6101.74	5918.31	5916.40	5910.11	5801.35	5710.08	5859.08	6251.25	5859.08	5710.08	5801.35
G 65.0	3972.65	3863.31	3800.77	3920.36	4268.98	4230.26	3951.15	4189.76	4393.33	4455.87	4393.33	4189.76	3951.15
G 70.0	2754.02	2719.84	2769.34	2853.27	2838.95	2785.49	2795.10	2905.15	2927.47	2809.10	2927.47	2905.15	2795.10
G 75.0	2167.17	2159.62	2170.76	2188.82	2186.79	2195.50	2223.91	2250.03	2274.61	2300.46	2274.61	2250.03	2223.91
G 80.0	1903.42	1924.77	1926.85	1920.89	1936.37	1956.43	1980.43	2024.06	2057.24	2069.38	2057.24	2024.06	1980.43
G 85.0	2271.93	2281.58	2286.04	2293.31	2316.34	2337.45	2373.31	2457.17	2522.74	2545.33	2522.74	2457.17	2373.31
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 55-9380-CA-37	Measurement	Code 55-9380-CA-37	Lamp	Code 64824FL GU10
Name	Uplight GEA 50W GU10	Name	Uplight GEA 50W GU10	Number	1
Line	- LEDS-C4	Date	02-11-2015	Position	Universal

Luminaire Flux	245.08 lm	Luminaire Power	50.00 W	Efficacy	4.90 lm/W	Efficiency	81.69%
Lamps Flux	300.00 lm	Maximum value	439.78 cd	Position	C=90.00 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	199100.15	199100.15	199100.15	199100.15	199100.15	199100.15	199100.15	199100.15	199100.15	199100.15	199100.15	199100.15	199100.15
G 5.0	205399.99	204420.05	203089.84	203074.54	202895.66	202074.42	202895.66	203074.54	203089.84	204420.05	205399.99	205763.55	206779.14
G 10.0	189389.81	186970.47	182957.98	178521.90	174822.43	171995.00	174822.43	178521.90	182957.98	186970.47	189389.81	191410.80	195246.78
G 15.0	147469.10	146539.29	143533.45	141411.29	140119.89	139085.99	140119.89	141411.29	143533.45	146539.29	147469.10	147604.29	151684.31
G 20.0	102494.55	105180.41	107848.42	112690.35	113736.65	109540.75	113736.65	112690.35	107848.42	105180.41	102494.55	100286.95	101836.63
G 25.0	62351.25	63236.03	63895.57	65767.50	68774.77	72380.80	68774.77	65767.50	63895.57	63236.03	62351.25	61186.11	60845.56
G 30.0	35697.23	36335.15	36863.74	36516.00	35873.47	35345.09	35873.47	36516.00	36863.74	36335.15	35697.23	35368.76	35100.90
G 35.0	25468.12	25642.73	26347.55	26248.44	25900.63	25725.91	25900.63	26248.44	26347.55	25642.73	25468.12	25693.79	25796.66
G 40.0	23129.63	22902.71	23799.72	23967.10	23748.78	23583.17	23748.78	23967.10	23799.72	22902.71	23129.63	24083.14	23505.33
G 45.0	16507.30	17102.60	17787.15	17590.15	17752.37	18760.40	17752.37	17590.15	17787.15	17102.60	16507.30	16550.16	16801.05
G 50.0	9137.06	9197.81	9135.57	9369.76	9498.73	9351.59	9498.73	9369.76	9135.57	9197.81	9137.06	8874.46	8794.09
G 55.0	6873.27	6868.78	6691.11	6733.18	6718.83	6519.88	6718.83	6733.18	6691.11	6868.78	6873.27	6750.12	6685.72
G 60.0	5910.11	5916.40	5918.31	6101.74	6254.35	6280.96	6254.35	6101.74	5918.31	5916.40	5910.11	5801.35	5710.08
G 65.0	4230.26	4268.98	3920.36	3800.77	3863.31	3972.65	3863.31	3800.77	3920.36	4268.98	4230.26	3951.15	4189.76
G 70.0	2785.49	2838.95	2853.27	2769.34	2719.84	2754.02	2719.84	2769.34	2853.27	2838.95	2785.49	2795.10	2905.15
G 75.0	2195.50	2186.79	2188.82	2170.76	2159.62	2167.17	2159.62	2170.76	2188.82	2186.79	2195.50	2223.91	2250.03
G 80.0	1956.43	1936.37	1920.89	1926.85	1924.77	1903.42	1924.77	1926.85	1920.89	1936.37	1956.43	1980.43	2024.06
G 85.0	2337.45	2316.34	2293.31	2286.04	2281.58	2271.93	2281.58	2286.04	2293.31	2316.34	2337.45	2373.31	2457.17
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 55-9380-CA-37	Measurem.	Code 55-9380-CA-37	Lamp	Code 64824FL GU10
	Name Uplight GEA 50W GU10		Name Uplight GEA 50W GU10		Number 1
	Line - LEDS-C4		Date 02-11-2015		Position Universal

Luminaire Flux	245.08 lm	Luminaire Power	50.00 W	Efficacy	4.90 lm/W	Efficiency	81.69%
Lamps Flux	300.00 lm	Maximum value	439.78 cd	Position	C=90.00 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	199100.15	199100.15	199100.15	199100.15	199100.15	199100.15	199100.15	199100.15	199100.15	199100.15
G 5.0	207607.51	207844.47	207607.51	206779.14	205763.55	205399.99	204420.05	203089.84	203074.54	202895.66
G 10.0	197905.23	198326.75	197905.23	195246.78	191410.80	189389.81	186970.47	182957.98	178521.90	174822.43
G 15.0	154090.46	154789.72	154090.46	151684.31	147604.29	147469.10	146539.29	143533.45	141411.29	140119.89
G 20.0	102555.81	100501.82	102555.81	101836.63	100286.95	102494.55	105180.41	107848.42	112690.35	113736.65
G 25.0	60092.43	58445.27	60092.43	60845.56	61186.11	62351.25	63236.03	63895.57	65767.50	68774.77
G 30.0	34743.52	34286.77	34743.52	35100.90	35368.76	35697.23	36335.15	36863.74	36516.00	35873.47
G 35.0	25587.54	25227.17	25587.54	25796.66	25693.79	25468.12	25642.73	26347.55	26248.44	25900.63
G 40.0	23021.54	22950.78	23021.54	23505.33	24083.14	23129.63	22902.71	23799.72	23967.10	23748.78
G 45.0	16883.62	16735.57	16883.62	16801.05	16550.16	16507.30	17102.60	17787.15	17590.15	17752.37
G 50.0	8927.54	9182.78	8927.54	8794.09	8874.46	9137.06	9197.81	9135.57	9369.76	9498.73
G 55.0	6888.04	7310.19	6888.04	6685.72	6750.12	6873.27	6868.78	6691.11	6733.18	6718.83
G 60.0	5859.08	6251.25	5859.08	5710.08	5801.35	5910.11	5916.40	5918.31	6101.74	6254.35
G 65.0	4393.33	4455.87	4393.33	4189.76	3951.15	4230.26	4268.98	3920.36	3800.77	3863.31
G 70.0	2927.47	2809.10	2927.47	2905.15	2795.10	2785.49	2838.95	2853.27	2769.34	2719.84
G 75.0	2274.61	2300.46	2274.61	2250.03	2223.91	2195.50	2186.79	2188.82	2170.76	2159.62
G 80.0	2057.24	2069.38	2057.24	2024.06	1980.43	1956.43	1936.37	1920.89	1926.85	1924.77
G 85.0	2522.74	2545.33	2522.74	2457.17	2373.31	2337.45	2316.34	2293.31	2286.04	2281.58
G 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00