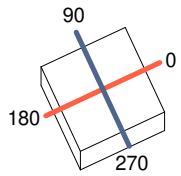
Luminaire
Code 90220L103
Name VISA Q110 830 90º+90º HO
Measurem.
Code 11/8/2023
Name VISA Q110 830 90º+90º HO

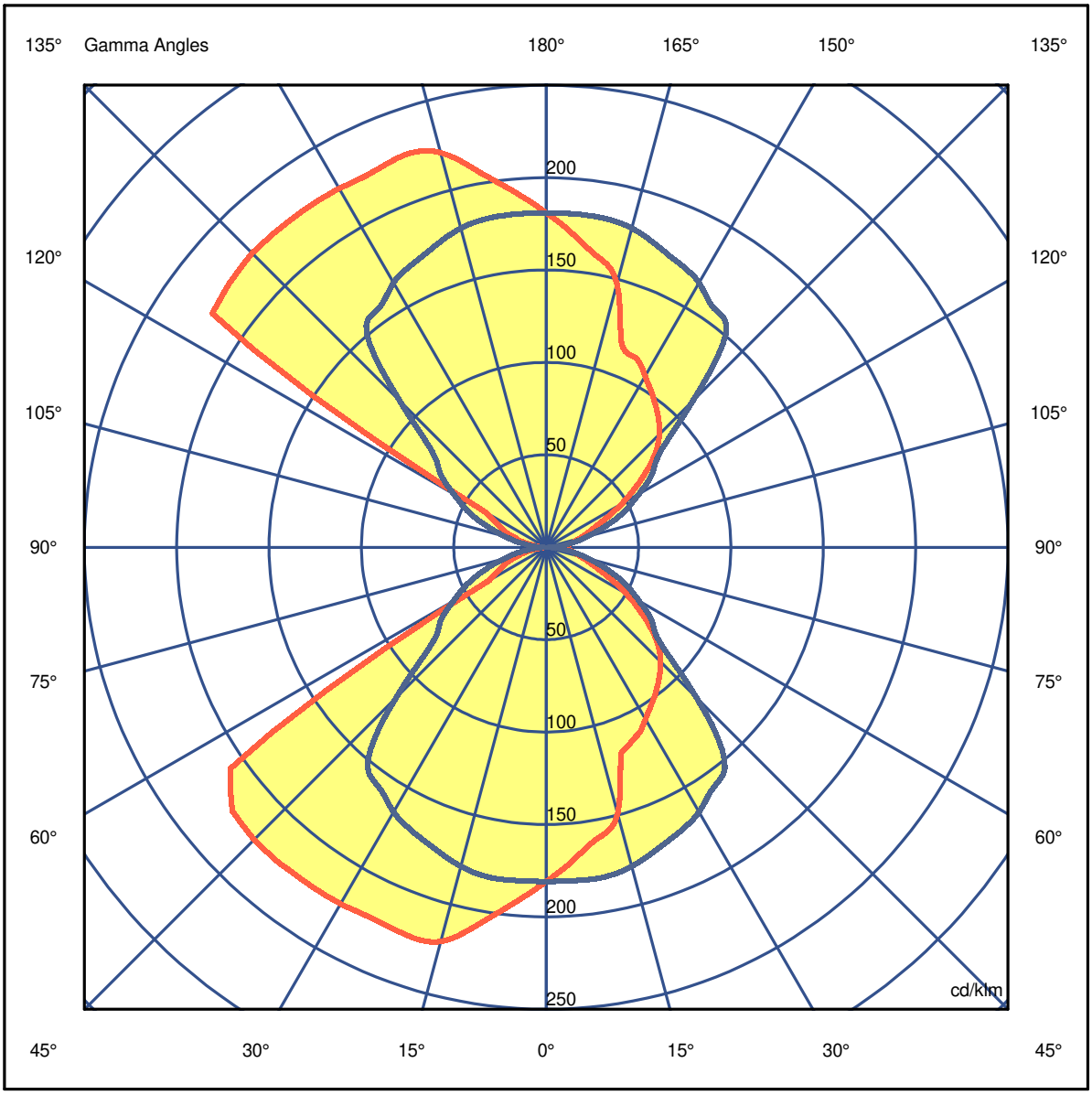
Luminaire Flux	250 lm	Luminaire Power	5.0 W	Efficacy	50.000 lm/W	Efficiency	100.00%
Source Flux	250 lm	Maximum value	227.74 cd/klm	Position	C=165.00 G=20.00	CG Asymmetrical	

110mm x 110mm



C Halfplanes

180.0 — 0.0
270.0 — 90.0



Luminaire
Code 90220L103
Name VISA Q110 830 90º+90º HO
Measurem.
Code 11/8/2023
Name VISA Q110 830 90º+90º HO

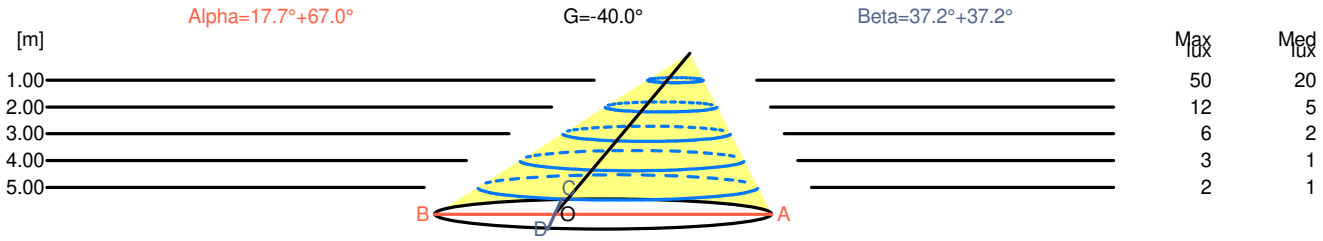
Luminaire Flux	250 lm	Luminaire Power	5.0 W	Efficacy	50.000 lm/W	Efficiency	100.00%
Source Flux	250 lm	Maximum value	227.74 cd/klm	Position	C=165.00 G=20.00	CG	Asymmetrical

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	1.35	2.70	4.05	5.39	6.74	OC	0.99	1.98	2.97	3.97	4.96
OB	0.75	1.49	2.24	2.98	3.73	OD	0.99	1.98	2.97	3.97	4.96

Luminous Intensities [cd/klm]

	0	5	15	25	35	45	55	65	75	85
OA	45.18	42.43	37.30	28.37	25.21	21.86	15.96	9.00	4.88	2.69
OB	45.18	48.18	55.19	55.44	55.77	55.90	52.21	6.79	3.55	0.44
OC	45.18	45.24	44.66	42.51	39.55	28.75	17.50	11.83	5.96	1.58
OD	45.18	45.24	44.66	42.51	39.55	28.75	17.50	11.83	5.96	1.58



H[m]	D[m]	Max lux	Med lux	Alpha=17.7°+67.0° G=-40.0
1.00	2.09	50	20	
2.00	4.19	12	5	
3.00	6.28	6	2	
4.00	8.38	3	1	
5.00	10.47	2	1	

H[m]	D[m]	Max lux	Med lux	Beta=37.2°+37.2° G=0.0
1.00	1.98	50	20	
2.00	3.97	12	5	
3.00	5.95	6	2	
4.00	7.93	3	1	
5.00	9.91	2	1	

Luminaire
Code 90220L103
Name VISA Q110 830 90º+90º HO
Measurem.
Code 11/8/2023
Name VISA Q110 830 90º+90º HO

Luminaire Flux	250 lm	Luminaire Power	5.0 W	Efficacy	50.000 lm/W	Efficiency	100.00%
Source Flux	250 lm	Maximum value	227.74 cd/klm	Position	C=165.00 G=20.00	CG	Asymmetrical

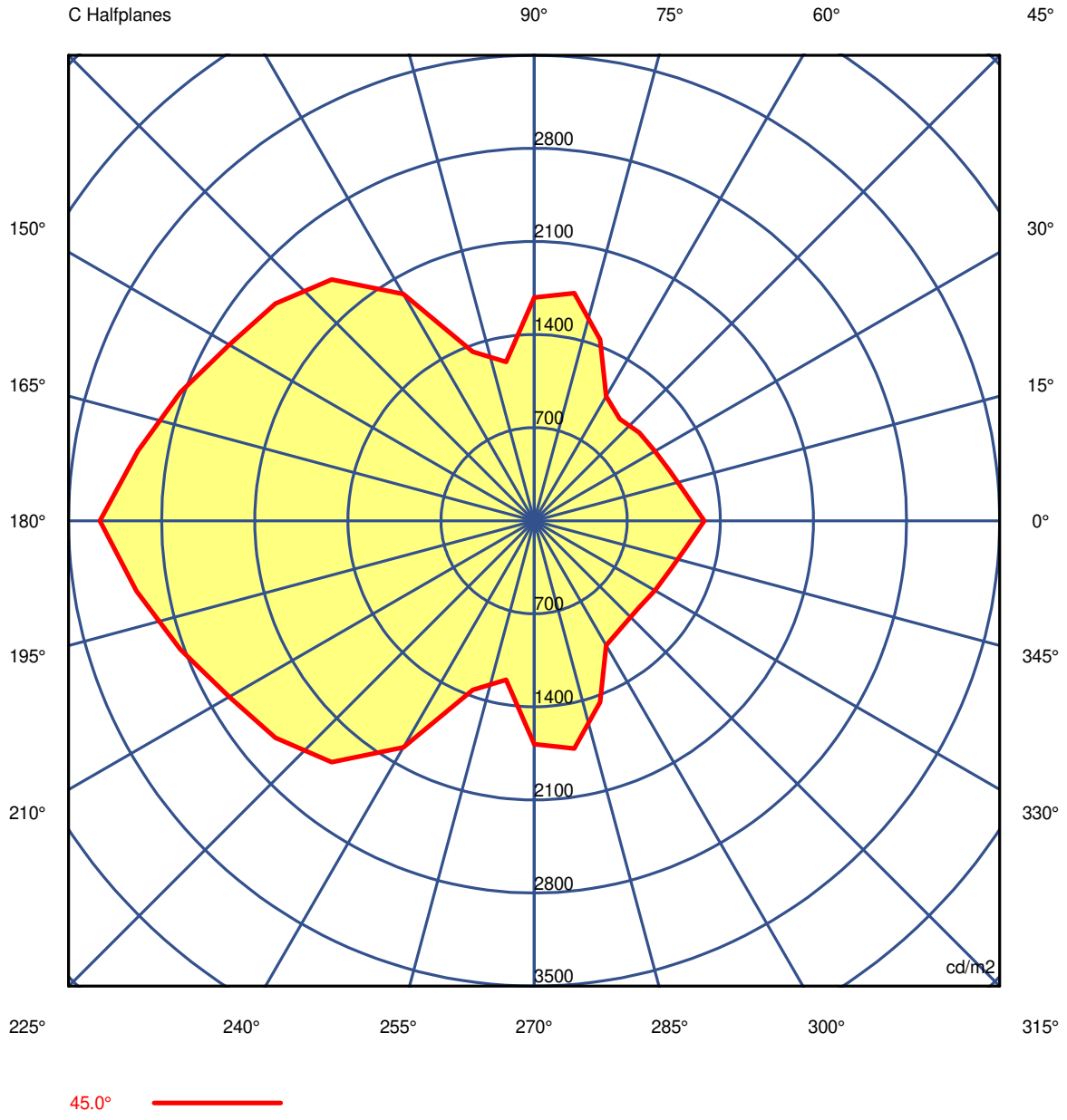
UGR
S = 0.250

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
Working Plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room Dimensions	Lateral View					Viewed Endwise				
x=2H y=2H	13.1	13.9	14.0	14.8	15.9	8.9	9.7	9.8	10.5	11.6
x=2H y=3H	13.0	13.7	13.9	14.6	15.7	9.6	10.2	10.5	11.1	12.3
x=2H y=4H	12.9	13.5	13.8	14.4	15.6	9.8	10.4	10.7	11.3	12.5
x=2H y=6H	12.8	13.3	13.7	14.3	15.5	9.8	10.4	10.8	11.4	12.6
x=2H y=8H	12.7	13.3	13.7	14.2	15.4	9.8	10.4	10.8	11.3	12.6
x=2H y=12H	12.6	13.2	13.6	14.1	15.3	9.8	10.3	10.8	11.3	12.5
x=4H y=2H	12.8	13.5	13.7	14.4	15.6	9.0	9.7	9.9	10.6	11.7
x=4H y=3H	12.7	13.2	13.7	14.2	15.4	9.8	10.3	10.7	11.3	12.5
x=4H y=4H	12.6	13.1	13.6	14.1	15.3	10.1	10.5	11.0	11.5	12.7
x=4H y=6H	12.5	12.9	13.5	13.9	15.2	10.2	10.6	11.2	11.6	12.9
x=4H y=8H	12.5	12.8	13.5	13.8	15.1	10.2	10.6	11.2	11.6	12.9
x=4H y=12H	12.4	12.7	13.4	13.7	15.0	10.2	10.5	11.2	11.5	12.8
x=8H y=4H	12.5	12.8	13.5	13.8	15.1	10.0	10.3	11.0	11.3	12.6
x=8H y=6H	12.4	12.7	13.4	13.7	15.0	10.2	10.5	11.2	11.5	12.8
x=8H y=8H	12.3	12.6	13.3	13.6	14.9	10.2	10.5	11.3	11.5	12.9
x=8H y=12H	12.2	12.4	13.3	13.5	14.8	10.2	10.5	11.3	11.5	12.8
x=12H y=4H	12.4	12.7	13.4	13.7	15.0	9.9	10.2	10.9	11.2	12.5
x=12H y=6H	12.3	12.6	13.3	13.6	14.9	10.1	10.4	11.2	11.4	12.8
x=12H y=8H	12.2	12.4	13.3	13.5	14.8	10.2	10.4	11.2	11.5	12.8

Luminaire
Code 90220L103
Name VISA Q110 830 90º+90º HO
Measurem.
Code 11/8/2023
Name VISA Q110 830 90º+90º HO

Luminaire Flux	250 lm	Luminaire Power	5.0 W	Efficacy	50.000 lm/W	Efficiency	100.00%
Source Flux	250 lm	Maximum value	227.74 cd/klm	Position	C=165.00 G=20.00	CG Asymmetrical	

Luminance



Luminaire
Code 90220L103
Name VISA Q110 830 90º+90º HO
Measurem.
Code 11/8/2023
Name VISA Q110 830 90º+90º HO

Luminaire Flux	250 lm	Luminaire Power	5.0 W	Efficacy	50.000 lm/W	Efficiency	100.00%
Source Flux	250 lm	Maximum value	227.74 cd/klm	Position	C=165.00 G=20.00	CG	Asymmetrical

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	3734	3734	3734	3734	3734	3734	3734	3734	3734	3734	3734	3734	3734
G 5.0	3237	3198	3170	3160	3167	3191	3230	3282	3355	3451	3461	3474	3486
G 10.0	2853	2779	2737	2727	2741	2783	2849	2937	3066	3230	3227	3238	3271
G 15.0	2517	2422	2383	2389	2410	2463	2551	2661	2814	3014	3010	3033	3090
G 20.0	1909	1836	1746	1757	2014	2224	2299	2419	2594	2808	2799	2835	2929
G 25.0	1764	1665	1611	1579	1567	1710	2071	2230	2381	2644	2629	2679	2810
G 30.0	1624	1520	1465	1432	1416	1481	1719	2009	2265	2500	2490	2533	2623
G 35.0	1496	1386	1324	1293	1273	1257	1353	1752	2116	2347	2347	2401	2483
G 40.0	1386	1271	1197	1166	1153	1168	1212	1593	1953	2203	2235	2310	2388
G 45.0	1278	1159	1087	1047	1031	999	1080	1451	1739	1680	1214	1352	1968
G 50.0	1140	1018	958	933	897	900	955	1012	1085	1181	1085	896	940
G 55.0	947	837	802	799	766	769	823	877	947	1039	937	872	806
G 60.0	754	661	636	642	624	636	688	735	791	878	800	726	664
G 65.0	560	487	478	497	487	503	553	582	638	736	653	576	523
G 70.0	417	364	349	355	359	386	435	475	517	568	475	405	363
G 75.0	329	283	271	274	268	287	332	360	380	402	321	260	228
G 80.0	262	218	206	207	197	209	239	252	254	257	191	143	121
G 85.0	205	163	150	147	131	132	150	148	136	120	71	38	28
G 90.0	72	80	63	42	52	50	34	48	46	17	15	14	13

Luminaire
Code 90220L103
Name VISA Q110 830 90º+90º HO
Measurem.
Code 11/8/2023
Name VISA Q110 830 90º+90º HO

Luminaire Flux	250 lm	Luminaire Power	5.0 W	Efficacy	50.000 lm/W	Efficiency	100.00%
Source Flux	250 lm	Maximum value	227.74 cd/klm	Position	C=165.00 G=20.00	CG	Asymmetrical

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	3734	3734	3734	3734	3734	3734	3734	3734	3734	3734	3734	3734	3734
G 5.0	3501	3524	3555	3586	3626	3675	3626	3586	3555	3524	3501	3486	3474
G 10.0	3317	3381	3451	3512	3589	3685	3589	3512	3451	3381	3317	3271	3238
G 15.0	3175	3280	3391	3495	3601	3724	3601	3495	3391	3280	3175	3090	3033
G 20.0	3072	3199	3299	3415	3497	3593	3497	3415	3299	3199	3072	2929	2835
G 25.0	2957	3042	3095	3215	3325	3448	3325	3215	3095	3042	2957	2810	2679
G 30.0	2759	2852	2919	3061	3208	3367	3208	3061	2919	2852	2759	2623	2533
G 35.0	2617	2721	2807	2967	3131	3310	3131	2967	2807	2721	2617	2483	2401
G 40.0	2504	2610	2716	2885	3062	3281	3062	2885	2716	2610	2504	2388	2310
G 45.0	2369	2540	2646	2830	3026	3267	3036	2830	2646	2540	2369	1968	1352
G 50.0	1936	2446	2584	2775	2994	3253	3014	2775	2584	2446	1936	940	1007
G 55.0	582	1272	2538	2730	2875	3098	2875	2879	2538	1272	766	806	872
G 60.0	640	616	572	528	509	538	509	528	572	616	640	664	726
G 65.0	490	435	379	386	402	422	402	386	379	435	490	523	576
G 70.0	338	309	288	306	327	349	327	306	288	309	338	363	405
G 75.0	225	213	197	214	228	239	228	214	197	213	225	228	260
G 80.0	126	120	106	121	131	133	131	121	106	120	126	121	143
G 85.0	38	36	24	36	40	34	40	36	24	36	38	28	38
G 90.0	14	14	14	14	17	21	17	14	14	14	14	13	13

Luminaire
Code 90220L103
Name VISA Q110 830 90º+90º HO
Measurem.
Code 11/8/2023
Name VISA Q110 830 90º+90º HO

Luminaire Flux	250 lm	Luminaire Power	5.0 W	Efficacy	50.000 lm/W	Efficiency	100.00%
Source Flux	250 lm	Maximum value	227.74 cd/klm	Position	C=165.00 G=20.00	CG	Asymmetrical

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	3734	3734	3734	3734	3734	3734	3734	3734	3734	3734
G 5.0	3461	3451	3355	3282	3230	3191	3167	3160	3170	3198
G 10.0	3227	3230	3066	2937	2849	2783	2741	2727	2737	2779
G 15.0	3010	3014	2814	2661	2551	2463	2410	2389	2383	2422
G 20.0	2799	2808	2594	2419	2299	2224	2014	1757	1777	1836
G 25.0	2629	2644	2381	2230	2071	1710	1567	1579	1611	1665
G 30.0	2490	2500	2265	2009	1719	1481	1416	1432	1465	1520
G 35.0	2347	2347	2116	1752	1353	1293	1273	1293	1324	1386
G 40.0	2235	2203	1953	1593	1212	1168	1153	1166	1197	1271
G 45.0	1214	1680	1739	1451	1080	1034	1023	1047	1087	1159
G 50.0	1085	1181	1078	1012	955	900	897	933	958	1018
G 55.0	947	1039	947	877	823	769	766	799	802	837
G 60.0	800	878	791	735	688	636	624	642	636	661
G 65.0	653	736	638	582	553	503	487	497	478	487
G 70.0	475	568	517	475	435	386	359	355	349	364
G 75.0	321	402	380	360	332	287	268	274	271	283
G 80.0	191	257	254	252	239	209	197	207	206	218
G 85.0	71	120	136	148	150	132	131	147	150	163
G 90.0	11	17	46	48	34	50	52	42	63	80