

**Luminaire**

Code 90220L103  
Name VISA Q110 840 5°+90° HO

**Measurem.**

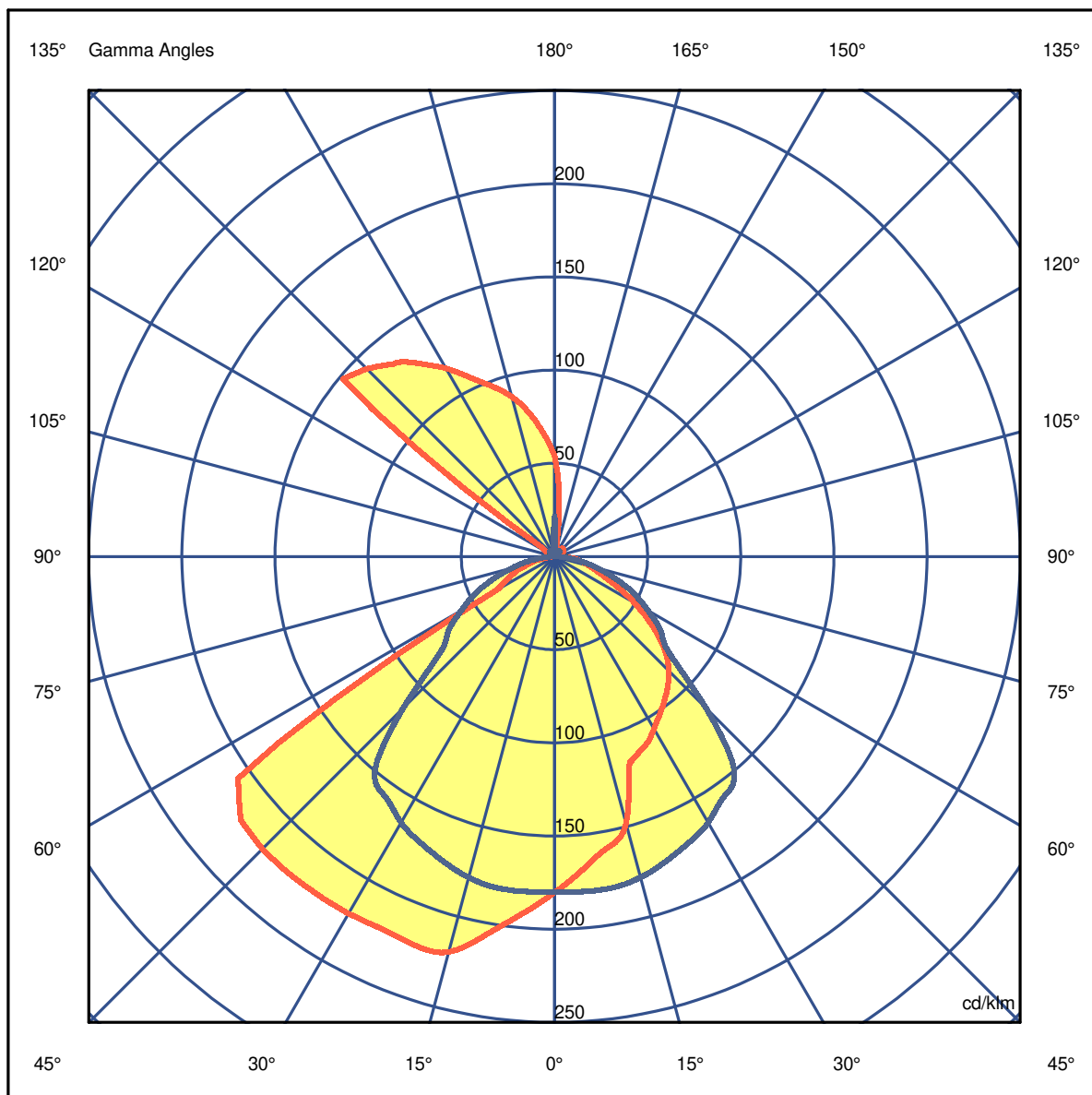
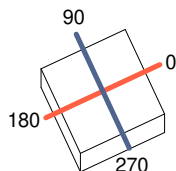
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Luminaire Flux	142 lm	Luminaire Power	5.0 W	Efficacy	28.420 lm/W	Efficiency	52.63%
Source Flux	270 lm	Maximum value	226.83 cd/klm	Position	C=165.00 G=20.00	CG	Asymmetrical

110mm x 110mm

C Halfplanes

180.0 ——— 0.0  
270.0 ——— 90.0



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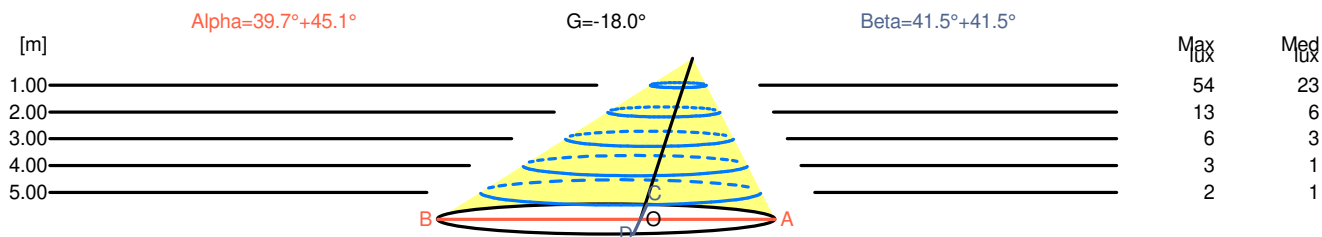
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Width at 50.00 % of Max Intensity

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	0.84	1.67	2.51	3.35	4.19	OC	0.93	1.86	2.79	3.72	4.64
OB	1.26	2.52	3.78	5.04	6.30	OD	0.93	1.86	2.79	3.72	4.64

	Luminous Intensities [ cd/klm]									
	0	5	15	25	35	45	55	65	75	85
OA	48.64	45.62	40.06	30.45	27.03	23.42	17.10	9.65	5.23	2.86
OB	48.64	51.83	59.30	59.46	59.81	59.88	55.98	7.26	3.80	0.46
OC	48.64	48.71	48.12	45.81	42.60	30.95	18.81	12.76	6.44	1.70
OD	48.64	48.71	48.12	45.81	42.60	30.95	18.81	12.76	6.44	1.70



H[m]	D[m]	Max lux	Med lux	Alpha=39.7°+45.1°	G=-18.0	
1.00	2.10	54	23			
2.00	4.19	13	6			
3.00	6.29	6	3			
4.00	8.39	3	1			
5.00	10.49	2	1			

H[m]	D[m]	Max lux	Med lux	Beta=41.5°+41.5°	G=0.0	
1.00	1.86	54	23			
2.00	3.72	13	6			
3.00	5.57	6	3			
4.00	7.43	3	1			
5.00	9.29	2	1			

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**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	16.4	17.6	16.8	18.0	18.3	12.2	13.4	12.6	13.7	14.0
x=2H y=3H	16.4	17.5	16.8	17.8	18.2	13.0	14.0	13.4	14.4	14.8
x=2H y=4H	16.4	17.4	16.8	17.7	18.1	13.3	14.2	13.7	14.6	15.0
x=2H y=6H	16.3	17.2	16.7	17.6	18.0	13.4	14.3	13.8	14.7	15.1
x=2H y=8H	16.3	17.1	16.7	17.5	18.0	13.4	14.3	13.9	14.7	15.1
x=2H y=12H	16.2	17.0	16.7	17.5	17.9	13.4	14.2	13.9	14.7	15.1
x=4H y=2H	16.3	17.3	16.7	17.7	18.1	12.5	13.5	12.9	13.9	14.3
x=4H y=3H	16.3	17.1	16.8	17.6	18.0	13.4	14.2	13.9	14.7	15.1
x=4H y=4H	16.3	17.0	16.8	17.5	18.0	13.7	14.5	14.2	14.9	15.4
x=4H y=6H	16.3	16.9	16.8	17.3	17.9	13.9	14.6	14.5	15.0	15.6
x=4H y=8H	16.2	16.8	16.7	17.3	17.8	14.0	14.6	14.5	15.1	15.6
x=4H y=12H	16.2	16.7	16.7	17.2	17.8	14.0	14.5	14.5	15.1	15.6
x=8H y=4H	16.2	16.8	16.7	17.3	17.8	13.7	14.3	14.3	14.8	15.3
x=8H y=6H	16.2	16.7	16.7	17.2	17.8	14.0	14.5	14.6	15.0	15.6
x=8H y=8H	16.2	16.6	16.7	17.1	17.7	14.1	14.5	14.7	15.1	15.7
x=8H y=12H	16.1	16.5	16.7	17.1	17.7	14.2	14.5	14.7	15.1	15.7
x=12H y=4H	16.2	16.7	16.7	17.2	17.8	13.7	14.2	14.2	14.8	15.3
x=12H y=6H	16.2	16.6	16.7	17.1	17.7	14.0	14.4	14.6	15.0	15.6
x=12H y=8H	16.1	16.5	16.7	17.1	17.7	14.1	14.5	14.7	15.0	15.7

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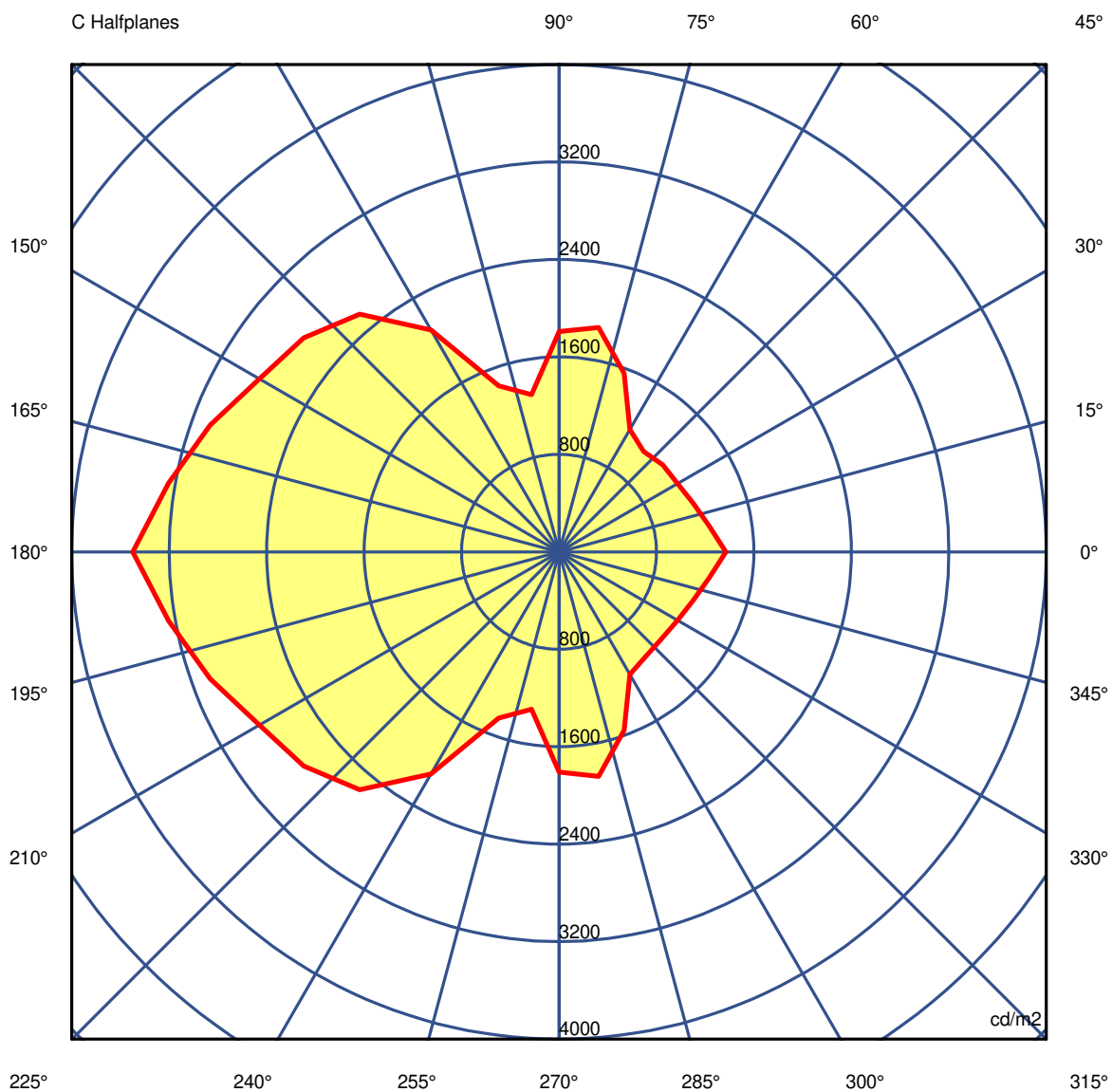
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Luminance



45.0°

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Source Flux	270 lm	Maximum value		226.83 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	4020	4020	4020	4020	4020	4020	4020	4020	4020	4020	4020	4020	4020
G 5.0	3480	3438	3410	3401	3411	3436	3476	3533	3614	3716	3726	3738	3749
G 10.0	3065	2990	2946	2934	2952	2997	3066	3161	3299	3474	3474	3485	3518
G 15.0	2703	2605	2562	2569	2597	2654	2744	2863	3031	3247	3242	3263	3324
G 20.0	2049	1976	1879	1890	2171	2397	2472	2601	2796	3032	3018	3050	3149
G 25.0	1893	1792	1733	1695	1687	1842	2226	2400	2565	2849	2832	2882	3021
G 30.0	1742	1636	1574	1536	1523	1589	1830	2154	2440	2693	2684	2726	2819
G 35.0	1604	1493	1421	1387	1370	1392	1454	1886	2281	2528	2525	2580	2668
G 40.0	1486	1368	1287	1250	1241	1258	1302	1713	2104	2376	2414	2488	2564
G 45.0	1369	1248	1170	1123	1111	1078	1160	1559	1870	1809	1311	1451	2105
G 50.0	1218	1095	1032	1001	965	969	1024	1089	1169	1271	1168	963	1009
G 55.0	1015	902	862	856	824	828	883	944	1016	1116	1007	937	866
G 60.0	807	712	684	689	672	685	738	790	852	944	860	778	712
G 65.0	600	526	513	530	521	542	594	626	688	793	704	620	561
G 70.0	446	393	376	381	387	416	466	510	557	610	511	435	389
G 75.0	353	305	291	294	289	311	357	387	411	434	346	279	244
G 80.0	280	234	221	222	213	225	256	270	274	276	204	153	130
G 85.0	218	175	161	156	140	143	161	159	145	130	76	41	30
G 90.0	61	30	16	13	11	9	8	7	5	5	9	11	12

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Source Flux	270 lm		Maximum value		226.83 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	4020	4020	4020	4020	4020	4020	4020	4020	4020	4020	4020	4020	4020	4020	
G 5.0	3765	3791	3824	3860	3902	3954	3902	3860	3824	3791	3765	3749	3738	3738	
G 10.0	3573	3641	3710	3778	3858	3956	3858	3778	3710	3641	3573	3518	3485	3485	
G 15.0	3421	3533	3646	3759	3872	4001	3872	3759	3646	3533	3421	3324	3263	3263	
G 20.0	3310	3445	3546	3673	3759	3857	3759	3673	3546	3445	3310	3149	3050	3050	
G 25.0	3185	3274	3323	3458	3575	3698	3575	3458	3323	3274	3185	3021	2882	2882	
G 30.0	2974	3072	3134	3295	3452	3612	3452	3295	3134	3072	2974	2819	2726	2726	
G 35.0	2819	2928	3012	3191	3366	3549	3366	3191	3012	2928	2819	2668	2580	2580	
G 40.0	2697	2810	2914	3105	3292	3514	3292	3105	2914	2810	2697	2564	2488	2488	
G 45.0	2549	2736	2840	3049	3256	3499	3256	3049	2840	2736	2549	2105	1451	1451	
G 50.0	2087	2632	2769	2968	3217	3481	3217	2968	2769	2632	2087	1009	1083	1083	
G 55.0	629	1364	2720	2938	3096	3322	3096	3100	2720	1364	825	866	937	937	
G 60.0	692	658	599	562	549	575	549	562	599	658	692	712	778	778	
G 65.0	528	469	406	419	433	451	433	419	406	469	528	561	620	620	
G 70.0	364	332	308	329	351	373	351	329	308	332	364	389	435	435	
G 75.0	243	230	210	230	246	257	246	230	210	230	243	244	279	279	
G 80.0	136	129	114	130	140	142	140	130	114	129	136	130	153	153	
G 85.0	42	39	26	38	43	35	43	38	26	39	42	30	41	41	
G 90.0	13	19	26	28	41	62	41	28	26	19	13	12	11	11	

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Source Flux	270 lm	Maximum value	226.83 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	4020	4020	4020	4020	4020	4020	4020	4020	4020	4020
G 5.0	3726	3716	3614	3533	3476	3436	3411	3401	3410	3438
G 10.0	3474	3474	3299	3161	3066	2997	2952	2934	2946	2990
G 15.0	3242	3247	3031	2863	2744	2654	2597	2569	2562	2605
G 20.0	3018	3032	2796	2601	2472	2397	2171	1890	1912	1976
G 25.0	2832	2849	2565	2400	2226	1842	1687	1695	1733	1792
G 30.0	2684	2693	2440	2154	1830	1589	1523	1536	1574	1636
G 35.0	2525	2528	2281	1886	1454	1392	1370	1387	1421	1493
G 40.0	2414	2376	2104	1713	1302	1258	1241	1250	1287	1368
G 45.0	1311	1809	1870	1559	1160	1114	1102	1123	1170	1248
G 50.0	1168	1271	1162	1089	1024	969	965	1001	1032	1095
G 55.0	1018	1116	1019	944	883	828	824	856	862	902
G 60.0	860	944	852	790	738	685	672	689	684	712
G 65.0	704	793	688	626	594	542	521	530	513	526
G 70.0	511	610	557	510	466	416	387	381	376	393
G 75.0	346	434	411	387	357	311	289	294	291	305
G 80.0	204	276	274	270	256	225	213	222	221	234
G 85.0	76	130	145	159	161	143	140	156	161	175
G 90.0	9	5	5	7	8	9	11	13	16	30