

**Luminaire**

Code 90220L101  
Name VISA Q110 830 5°+90° LO

**Measurem.**

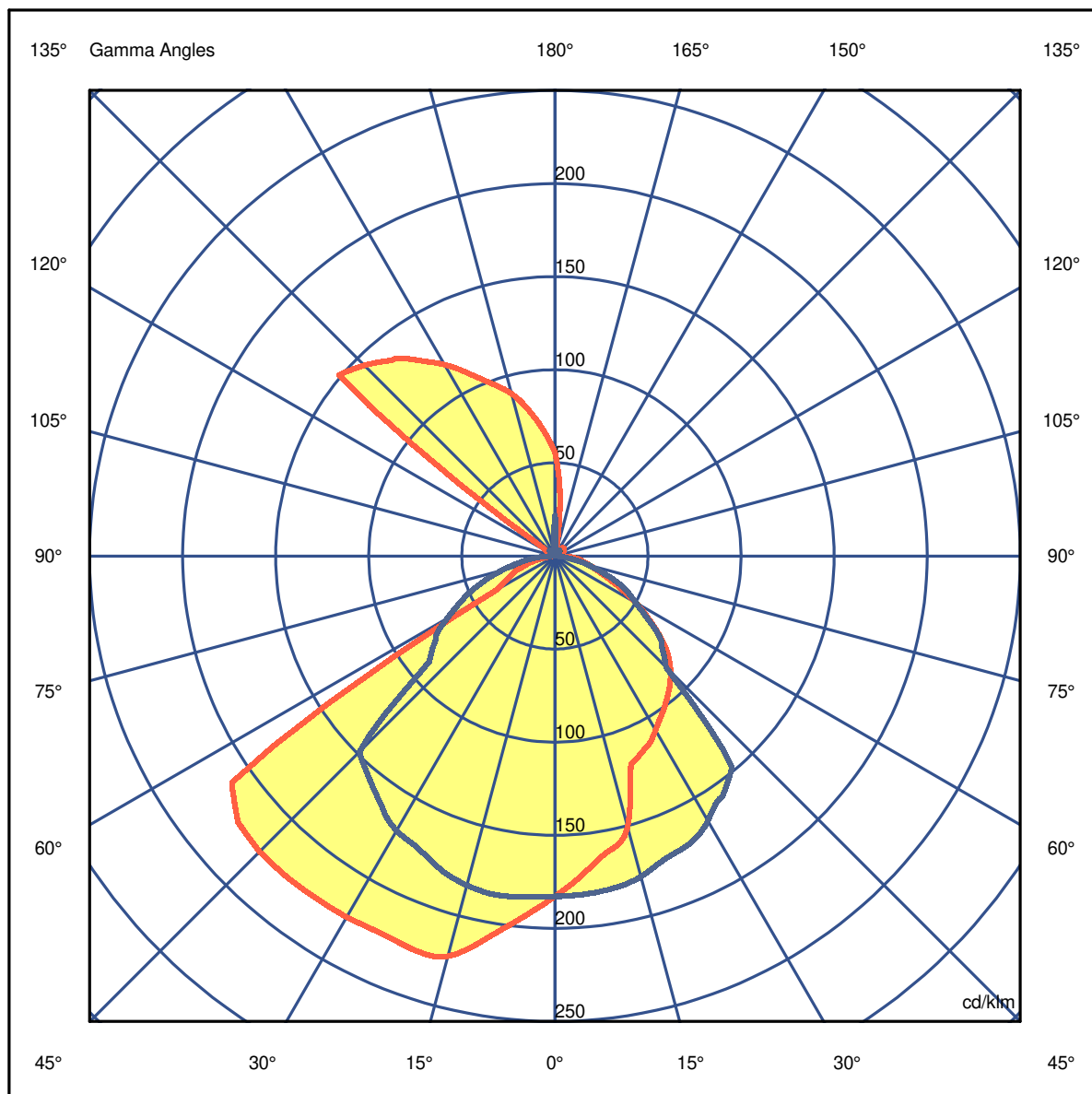
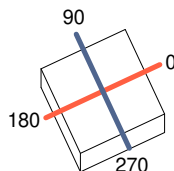
Code 11/8/2023  
Name VISA Q110 830 5°+90° LO

Luminaire Flux	72 lm	Luminaire Power	3.0 W	Efficacy	24.042 lm/W	Efficiency	53.43%
Source Flux	135 lm	Maximum value	229.75 cd/klm	Position	C=165.00 G=20.00	CG	Asymmetrical

110mm x 110mm

C Halfplanes

180.0 ——— 0.0  
270.0 ——— 90.0



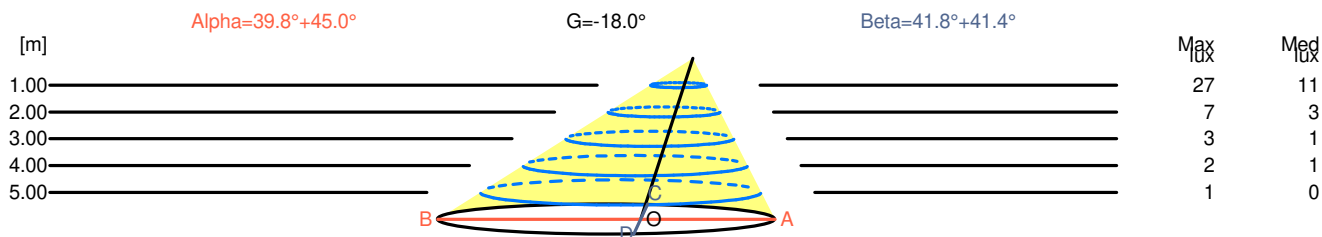
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Width at 50.00 % of Max Intensity

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	3.34	4.18	OC	0.94	1.88	2.82	3.76	4.69
OB	1.26	2.52	3.78	5.05	6.31	OD	0.93	1.85	2.78	3.70	4.63

	Luminous Intensities [ cd/klm]									
	0	5	15	25	35	45	55	65	75	85
OA	24.66	23.16	20.34	15.40	13.67	11.85	8.65	4.88	2.64	1.45
OB	24.66	26.25	30.03	30.12	30.26	30.30	28.60	3.68	1.93	0.24
OC	24.66	24.61	24.07	23.03	21.22	11.37	8.50	5.56	2.54	0.37
OD	24.66	24.79	24.70	23.41	21.98	20.07	10.58	7.37	3.98	1.37



H[m]	D[m]	Max lux	Med lux	Alpha=39.8°+45.0°	G=-18.0	
1.00	2.10	27	11			
2.00	4.19	7	3			
3.00	6.29	3	1			
4.00	8.39	2	1			
5.00	10.48	1	0			

H[m]	D[m]	Max lux	Med lux	Beta=41.4°+41.8°	G=0.0	
1.00	1.86	27	11			
2.00	3.73	7	3			
3.00	5.59	3	1			
4.00	7.46	2	1			
5.00	9.32	1	0			

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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										
Room Dimensions	Lateral View					Viewed Endwise				
x=2H y=2H	14.1	15.3	14.5	15.6	15.9	10.0	11.2	10.4	11.5	11.8
x=2H y=3H	14.0	15.1	14.4	15.5	15.8	10.9	11.9	11.3	12.3	12.7
x=2H y=4H	14.0	15.0	14.4	15.3	15.8	11.2	12.2	11.6	12.5	13.0
x=2H y=6H	14.0	14.8	14.4	15.3	15.7	11.4	12.3	11.8	12.7	13.1
x=2H y=8H	13.9	14.8	14.4	15.2	15.6	11.5	12.3	11.9	12.7	13.2
x=2H y=12H	13.9	14.7	14.3	15.1	15.6	11.5	12.3	11.9	12.7	13.2
x=4H y=2H	13.9	14.9	14.4	15.3	15.7	10.3	11.3	10.7	11.6	12.1
x=4H y=3H	13.9	14.7	14.4	15.2	15.6	11.2	12.1	11.7	12.5	13.0
x=4H y=4H	13.9	14.7	14.4	15.1	15.6	11.6	12.4	12.1	12.8	13.3
x=4H y=6H	13.9	14.5	14.4	15.0	15.5	11.9	12.5	12.4	13.0	13.5
x=4H y=8H	13.9	14.4	14.4	14.9	15.5	12.0	12.5	12.5	13.0	13.6
x=4H y=12H	13.8	14.4	14.4	14.9	15.4	12.0	12.5	12.5	13.0	13.6
x=8H y=4H	13.9	14.4	14.4	14.9	15.5	11.6	12.2	12.1	12.7	13.2
x=8H y=6H	13.8	14.3	14.4	14.8	15.4	11.9	12.4	12.5	12.9	13.5
x=8H y=8H	13.8	14.2	14.4	14.8	15.4	12.0	12.5	12.6	13.0	13.6
x=8H y=12H	13.8	14.1	14.4	14.7	15.3	12.1	12.5	12.7	13.0	13.6
x=12H y=4H	13.8	14.3	14.3	14.8	15.4	11.6	12.1	12.1	12.6	13.2
x=12H y=6H	13.8	14.2	14.4	14.7	15.4	11.9	12.3	12.5	12.9	13.5
x=12H y=8H	13.8	14.1	14.4	14.7	15.3	12.0	12.4	12.6	13.0	13.6

**Luminaire**

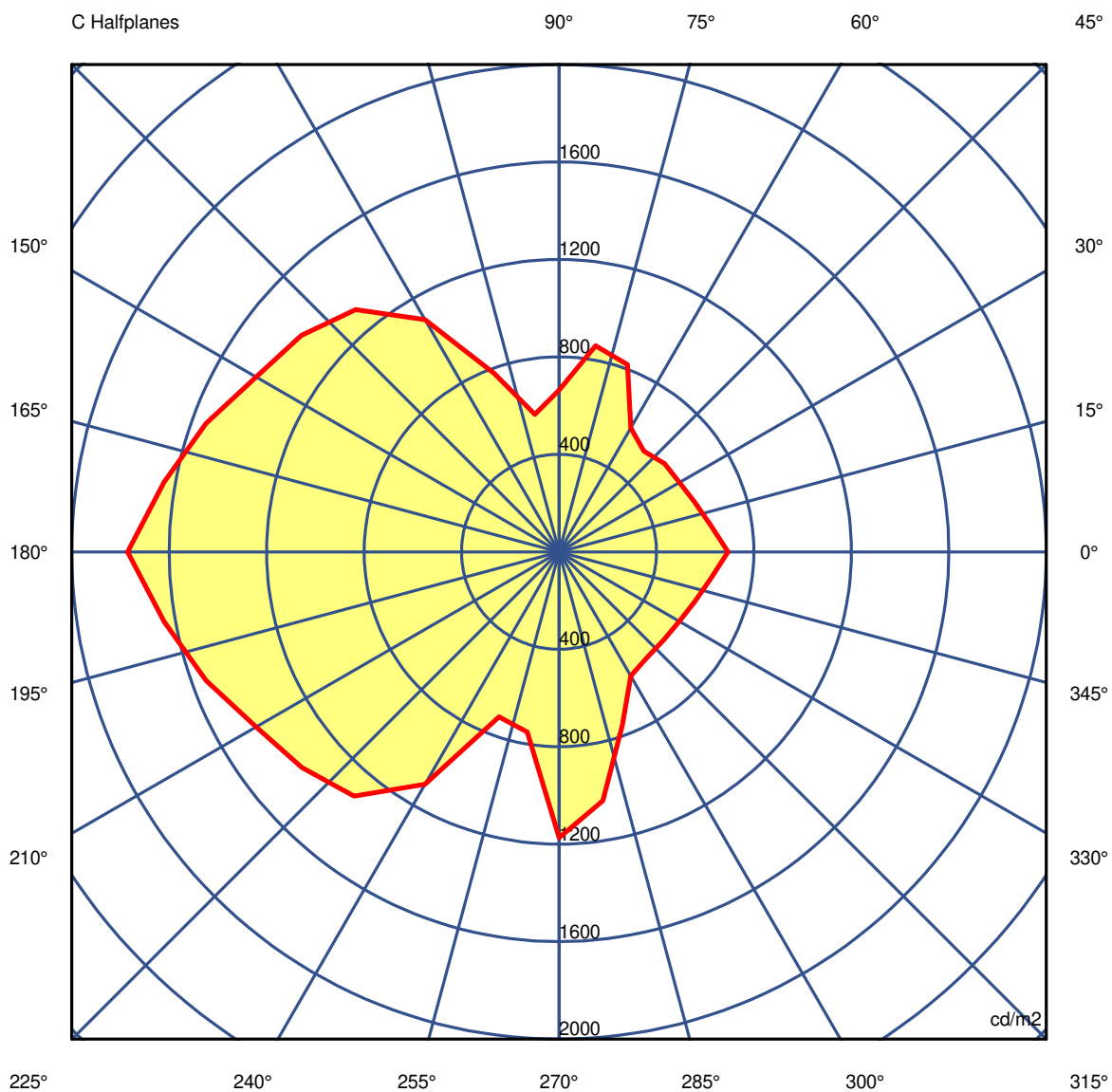
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Luminance



45.0°

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Source Flux	135 lm		Maximum value			229.75 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	2038	2038	2038	2038	2038	2038	2038	2038	2038	2038	2038	2038	2038	2038	
G 5.0	1767	1745	1731	1727	1730	1742	1763	1793	1830	1878	1887	1897	1902	1902	
G 10.0	1555	1775	1712	1490	1500	1530	1555	1604	1667	1744	1755	1770	1784	1784	
G 15.0	1372	1323	1302	1305	1319	1346	1392	1455	1529	1624	1637	1659	1686	1686	
G 20.0	1038	1001	952	956	1101	1216	1254	1323	1406	1506	1520	1552	1598	1598	
G 25.0	958	911	878	859	854	933	1129	1219	1296	1432	1432	1465	1534	1534	
G 30.0	881	828	797	778	772	800	914	1090	1230	1341	1353	1387	1430	1430	
G 35.0	811	756	720	703	694	705	737	959	1148	1259	1276	1315	1354	1354	
G 40.0	752	693	652	633	634	637	659	872	1055	1172	1213	1266	1300	1300	
G 45.0	693	632	593	570	565	541	587	818	859	665	573	781	1101	1101	
G 50.0	617	555	522	507	489	490	519	561	569	591	575	548	511	511	
G 55.0	513	456	436	433	418	419	447	485	495	505	491	475	438	438	
G 60.0	409	360	345	348	341	346	374	408	408	409	413	403	361	361	
G 65.0	303	266	260	269	265	274	301	324	329	346	338	321	285	285	
G 70.0	225	198	190	193	196	209	236	264	263	253	240	228	198	198	
G 75.0	178	154	147	149	147	157	181	201	191	171	159	147	124	124	
G 80.0	142	119	112	113	108	113	130	141	124	97	90	83	66	66	
G 85.0	111	89	82	79	71	71	82	85	62	28	29	26	16	16	
G 90.0	31	16	9	7	6	5	4	4	3	3	5	6	6	6	

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Source Flux	135 lm		Maximum value		229.75 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	2038	2038	2038	2038	2038	2038	2038	2038	2038	2038	2038	2038	2038	
G 5.0	1909	1922	1939	1957	1978	2003	1978	1957	1939	1921	1910	1902	1895	
G 10.0	1811	1846	1881	1915	1955	2004	1955	1915	1881	1845	1812	1784	1765	
G 15.0	1733	1790	1848	1904	1961	2027	1961	1904	1848	1790	1734	1686	1654	
G 20.0	1677	1745	1796	1860	1904	1954	1904	1860	1796	1744	1678	1598	1545	
G 25.0	1614	1658	1684	1752	1811	1873	1811	1752	1684	1658	1615	1534	1462	
G 30.0	1506	1555	1587	1669	1748	1828	1748	1669	1587	1554	1507	1430	1381	
G 35.0	1428	1483	1525	1617	1705	1796	1704	1617	1525	1482	1428	1354	1309	
G 40.0	1365	1422	1475	1571	1665	1778	1665	1571	1475	1422	1367	1300	1259	
G 45.0	1298	1382	1437	1542	1647	1771	1647	1543	1437	1378	1309	1101	720	
G 50.0	1056	1332	1400	1501	1627	1760	1627	1501	1400	1332	1058	511	548	
G 55.0	317	692	1376	1486	1572	1697	1572	1566	1376	691	418	438	475	
G 60.0	349	337	310	287	278	292	278	288	310	336	351	361	387	
G 65.0	266	238	205	212	219	229	219	212	205	237	269	285	308	
G 70.0	184	169	157	167	179	190	179	168	157	168	186	198	215	
G 75.0	122	117	106	117	125	130	125	117	106	116	124	124	136	
G 80.0	69	67	57	65	71	73	71	65	57	66	70	66	73	
G 85.0	20	25	25	24	21	18	21	24	25	25	21	16	18	
G 90.0	7	9	14	15	22	32	22	15	14	9	7	6	6	

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**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	2038	2038	2038	2038	2038	2038	2038	2038	2038	2038
G 5.0	1892	1891	1835	1791	1763	1742	1730	1727	1731	1745
G 10.0	1768	1779	1680	1599	1555	1530	1475	1490	1712	1775
G 15.0	1652	1667	1544	1449	1392	1347	1318	1305	1302	1323
G 20.0	1540	1561	1426	1316	1254	1217	1100	956	968	1001
G 25.0	1441	1456	1305	1216	1129	934	854	859	878	911
G 30.0	1371	1391	1248	1084	914	801	772	778	797	828
G 35.0	1292	1305	1164	953	737	705	694	703	720	756
G 40.0	1233	1231	1076	865	659	637	628	633	652	693
G 45.0	751	1173	1037	758	587	564	561	570	593	632
G 50.0	639	698	606	549	519	492	488	507	523	555
G 55.0	533	628	537	470	447	421	417	433	436	456
G 60.0	460	547	455	392	374	348	341	348	345	360
G 65.0	376	458	368	317	301	276	264	269	260	266
G 70.0	279	366	301	252	236	211	195	193	190	198
G 75.0	192	268	223	193	181	158	146	149	147	154
G 80.0	119	183	150	132	130	115	108	113	112	119
G 85.0	51	104	85	77	82	73	71	79	82	89
G 90.0	5	3	3	4	4	5	6	7	9	16