

Luminaire

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

Measurem.

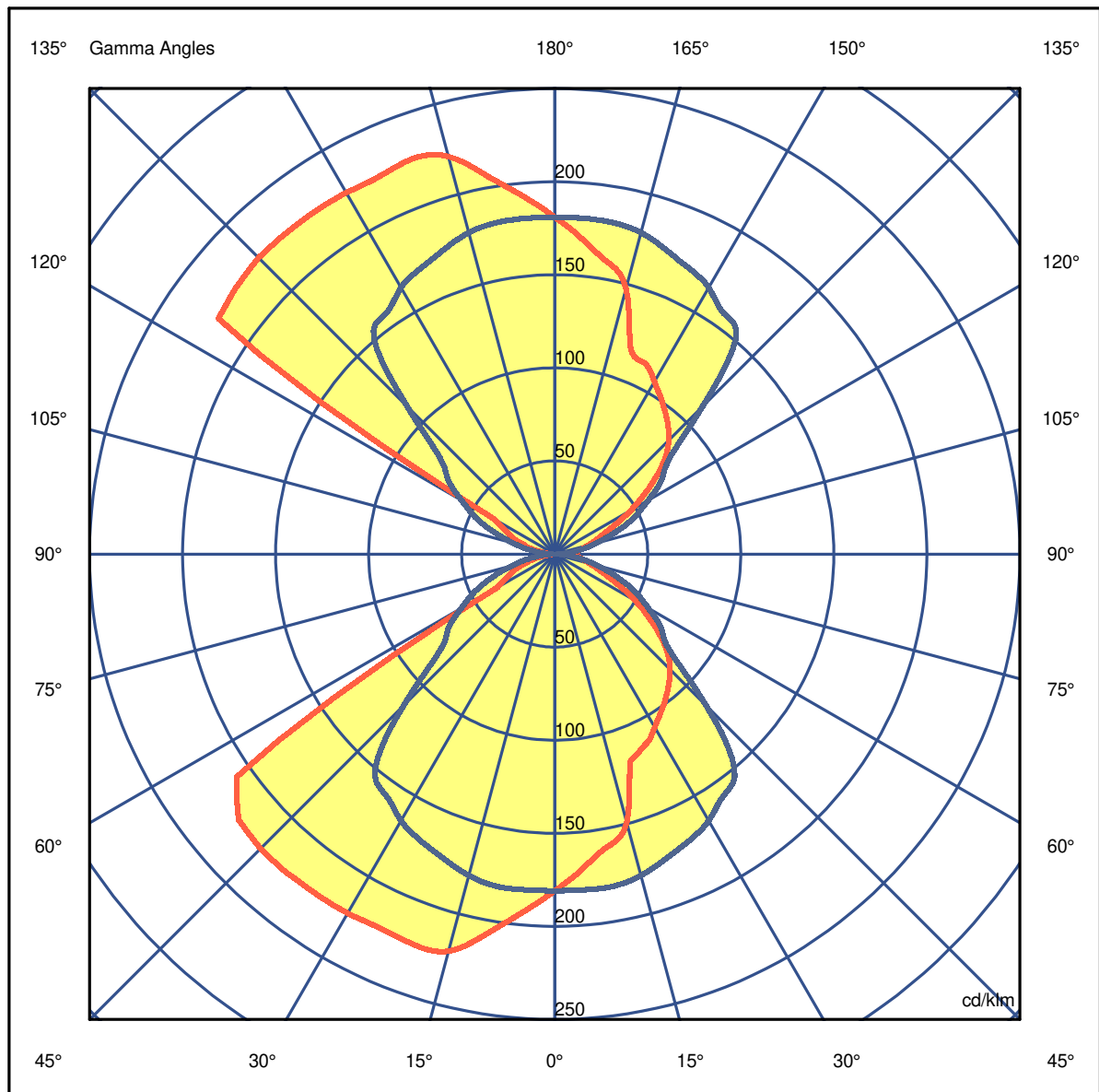
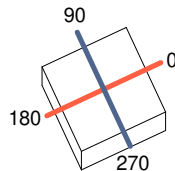
Code 11/8/2023
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Luminaire Flux	270 lm	Luminaire Power	5.0 W	Efficacy	54.000 lm/W	Efficiency	100.00%
Source Flux	270 lm	Maximum value	227.74 cd/klm	Position	C=165.00 G=20.00	CG Asymmetrical	

110mm x 110mm

C Halfplanes

180.0 ——— 0.0
270.0 ——— 90.0



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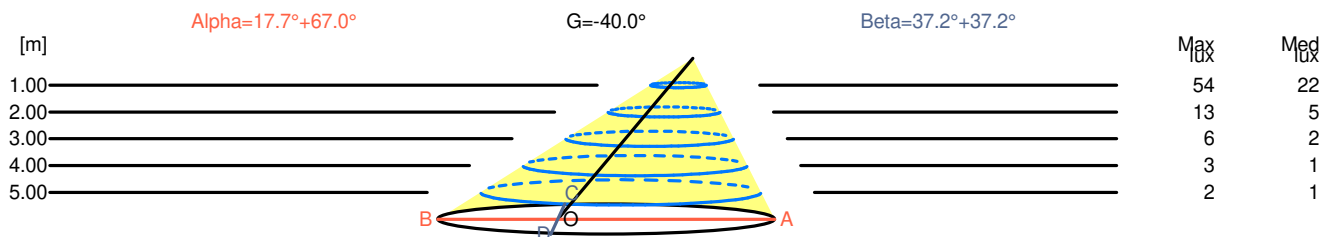
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Width at 50.00 % of Max Intensity

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	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	48.80	45.82	40.28	30.64	27.23	23.61	17.24	9.72	5.27	2.90
OB	48.80	52.03	59.61	59.87	60.23	60.37	56.39	7.33	3.83	0.48
OC	48.80	48.86	48.23	45.91	42.71	31.05	18.90	12.78	6.43	1.71
OD	48.80	48.86	48.23	45.91	42.71	31.05	18.90	12.78	6.43	1.71



H[m]	D[m]	Max lux	Med lux	Alpha=17.7°+67.0°	G=-40.0	
1.00	2.09	54	22			
2.00	4.19	13	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	54	22			
2.00	3.97	13	5			
3.00	5.95	6	2			
4.00	7.93	3	1			
5.00	9.91	2	1			

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Source Flux	270 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	13.4	14.2	14.3	15.1	16.2	9.1	9.9	10.0	10.8	11.9
x=2H y=3H	13.2	13.9	14.2	14.8	16.0	9.8	10.5	10.7	11.4	12.6
x=2H y=4H	13.1	13.8	14.1	14.7	15.9	10.0	10.7	11.0	11.6	12.8
x=2H y=6H	13.0	13.6	14.0	14.6	15.7	10.1	10.7	11.0	11.6	12.8
x=2H y=8H	13.0	13.5	13.9	14.5	15.7	10.1	10.7	11.1	11.6	12.8
x=2H y=12H	12.9	13.4	13.9	14.4	15.6	10.1	10.6	11.0	11.5	12.8
x=4H y=2H	13.1	13.7	14.0	14.6	15.8	9.3	9.9	10.2	10.8	12.0
x=4H y=3H	13.0	13.5	13.9	14.4	15.7	10.1	10.6	11.0	11.5	12.7
x=4H y=4H	12.9	13.4	13.9	14.3	15.6	10.3	10.8	11.3	11.8	13.0
x=4H y=6H	12.8	13.2	13.8	14.2	15.5	10.5	10.9	11.5	11.9	13.1
x=4H y=8H	12.7	13.1	13.7	14.1	15.4	10.5	10.9	11.5	11.8	13.1
x=4H y=12H	12.7	13.0	13.7	14.0	15.3	10.5	10.8	11.5	11.8	13.1
x=8H y=4H	12.7	13.1	13.7	14.1	15.4	10.2	10.6	11.2	11.6	12.9
x=8H y=6H	12.6	12.9	13.7	13.9	15.3	10.4	10.7	11.5	11.8	13.1
x=8H y=8H	12.6	12.8	13.6	13.9	15.2	10.5	10.8	11.5	11.8	13.1
x=8H y=12H	12.5	12.7	13.5	13.7	15.1	10.5	10.7	11.5	11.8	13.1
x=12H y=4H	12.6	13.0	13.7	14.0	15.3	10.2	10.5	11.2	11.5	12.8
x=12H y=6H	12.6	12.8	13.6	13.8	15.2	10.4	10.7	11.4	11.7	13.0
x=12H y=8H	12.5	12.7	13.5	13.8	15.1	10.5	10.7	11.5	11.7	13.1

Luminaire

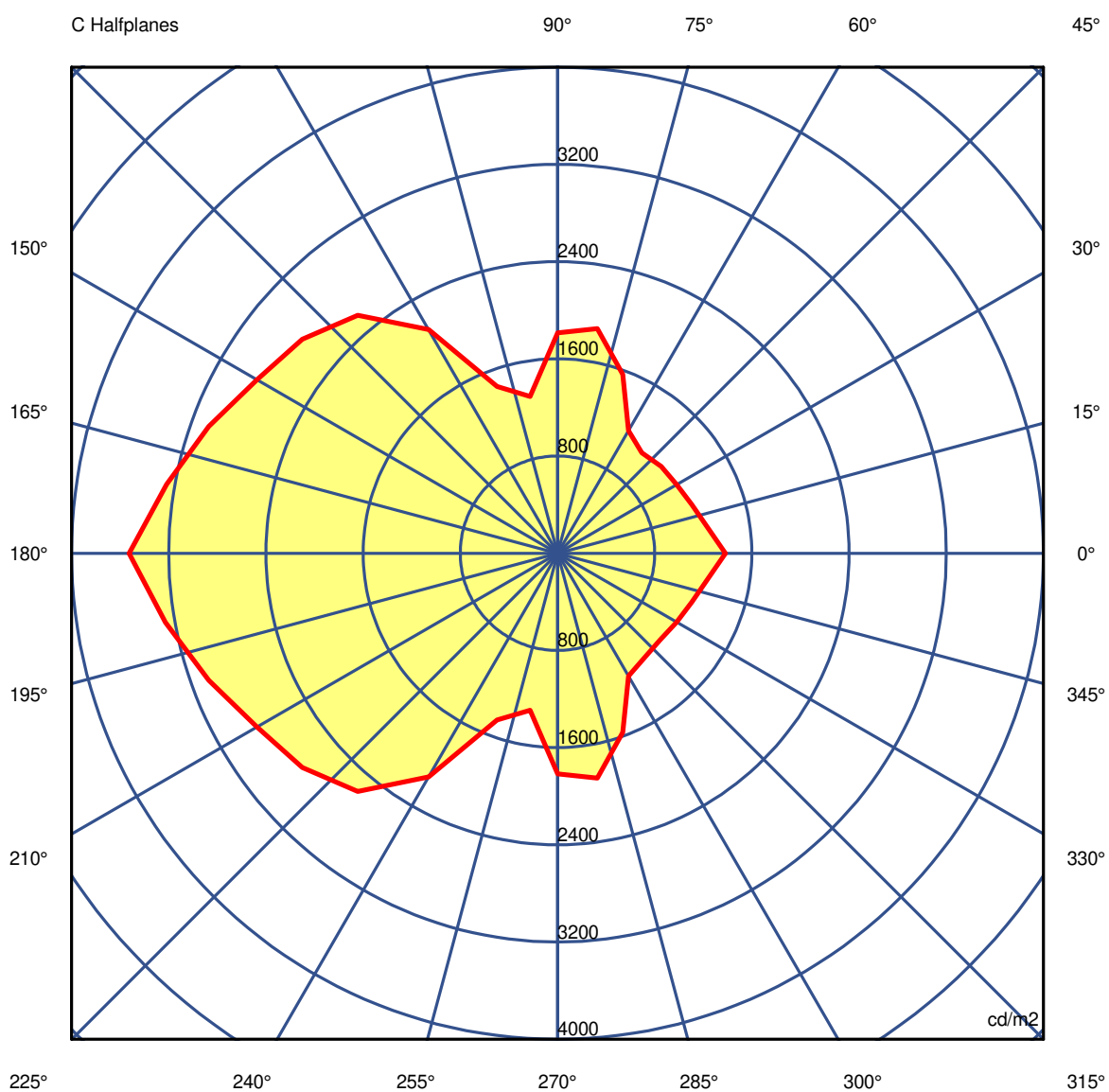
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Source Flux	270 lm	Maximum value	227.74 cd/klm	Position	C=165.00 G=20.00	CG Asymmetrical	

Luminance



45.0°

Luminaire

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Luminaire Flux	270 lm		Luminaire Power		5.0 W		Efficacy		54.000 lm/W		Efficiency		100.00%		
Source Flux	270 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	4033	4033	4033	4033	4033	4033	4033	4033	4033	4033	4033	4033	4033	4033	
G 5.0	3496	3453	3424	3413	3420	3446	3489	3544	3624	3727	3738	3752	3765		
G 10.0	3081	3001	2956	2945	2961	3006	3077	3172	3311	3488	3485	3497	3533		
G 15.0	2718	2616	2573	2580	2603	2660	2755	2874	3039	3255	3251	3275	3337		
G 20.0	2062	1983	1886	1898	2176	2402	2483	2612	2801	3033	3023	3062	3163		
G 25.0	1906	1798	1739	1705	1692	1847	2236	2408	2571	2855	2839	2893	3035		
G 30.0	1753	1641	1582	1546	1529	1600	1856	2170	2446	2700	2689	2735	2833		
G 35.0	1616	1497	1430	1396	1375	1358	1461	1892	2286	2534	2534	2593	2681		
G 40.0	1497	1372	1293	1259	1245	1262	1309	1721	2109	2379	2414	2495	2579		
G 45.0	1380	1252	1174	1131	1114	1079	1166	1567	1878	1814	1311	1461	2126		
G 50.0	1231	1099	1035	1007	968	972	1031	1093	1172	1276	1172	968	1015		
G 55.0	1023	904	866	863	827	830	889	948	1022	1122	1012	941	871		
G 60.0	814	714	687	694	674	687	743	794	854	948	864	784	718		
G 65.0	604	526	516	536	526	544	597	629	689	795	705	623	565		
G 70.0	451	393	376	384	388	417	470	513	559	613	513	438	392		
G 75.0	356	305	292	296	289	310	359	389	410	434	346	281	246		
G 80.0	283	235	222	224	213	225	259	272	274	277	206	155	131		
G 85.0	221	176	162	158	141	143	162	160	146	130	76	41	30		
G 90.0	78	87	68	46	57	54	37	52	50	19	16	15	14		

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Source Flux	270 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	4033	4033	4033	4033	4033	4033	4033	4033	4033	4033	4033	4033	4033	
G 5.0	3781	3806	3839	3873	3916	3970	3916	3873	3839	3806	3781	3765	3752	
G 10.0	3583	3652	3728	3793	3876	3980	3876	3793	3728	3652	3583	3533	3497	
G 15.0	3429	3542	3662	3775	3890	4022	3890	3775	3662	3542	3429	3337	3275	
G 20.0	3318	3455	3563	3688	3776	3881	3776	3688	3563	3455	3318	3163	3062	
G 25.0	3193	3285	3342	3472	3590	3723	3590	3472	3342	3285	3193	3035	2893	
G 30.0	2979	3080	3153	3306	3464	3637	3464	3306	3153	3080	2979	2833	2735	
G 35.0	2826	2939	3031	3204	3381	3574	3381	3204	3031	2939	2826	2681	2593	
G 40.0	2704	2819	2934	3116	3307	3544	3307	3116	2934	2819	2704	2579	2495	
G 45.0	2558	2743	2858	3056	3268	3528	3279	3056	2858	2743	2558	2426	2361	
G 50.0	2090	2642	2791	2997	3234	3514	3255	2997	2791	2642	2090	1015	1087	
G 55.0	629	1374	2741	2948	3105	3346	3105	3109	2741	1374	828	871	941	
G 60.0	692	665	618	570	549	581	549	570	618	665	692	718	784	
G 65.0	529	470	410	417	435	456	435	417	410	470	529	565	623	
G 70.0	365	334	311	331	353	376	353	331	311	334	365	392	438	
G 75.0	243	230	213	231	246	259	246	231	213	230	243	246	281	
G 80.0	136	129	114	131	141	143	141	131	114	129	136	131	155	
G 85.0	41	39	26	38	44	36	44	38	26	39	41	30	41	
G 90.0	15	15	15	15	18	22	18	15	15	15	15	14	14	

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Source Flux	270 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	4033	4033	4033	4033	4033	4033	4033	4033	4033	4033
G 5.0	3738	3727	3624	3544	3489	3446	3420	3413	3424	3453
G 10.0	3485	3488	3311	3172	3077	3006	2961	2945	2956	3001
G 15.0	3251	3255	3039	2874	2755	2660	2603	2580	2573	2616
G 20.0	3023	3033	2801	2612	2483	2402	2176	1898	1919	1983
G 25.0	2839	2855	2571	2408	2236	1847	1692	1705	1739	1798
G 30.0	2689	2700	2446	2170	1856	1600	1529	1546	1582	1641
G 35.0	2534	2534	2286	1892	1461	1396	1375	1396	1430	1497
G 40.0	2414	2379	2109	1721	1309	1262	1245	1259	1293	1372
G 45.0	1311	1814	1878	1567	1166	1116	1105	1131	1174	1252
G 50.0	1172	1276	1164	1093	1031	972	968	1007	1035	1099
G 55.0	1023	1122	1022	948	889	830	827	863	866	904
G 60.0	864	948	854	794	743	687	674	694	687	714
G 65.0	705	795	689	629	597	544	526	536	516	526
G 70.0	513	613	559	513	470	417	388	384	376	393
G 75.0	346	434	410	389	359	310	289	296	292	305
G 80.0	206	277	274	272	259	225	213	224	222	235
G 85.0	76	130	146	160	162	143	141	158	162	176
G 90.0	12	19	50	52	37	54	57	46	68	87