

**Luminaire**

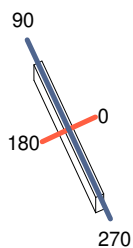
Code 90477L120  
Name TTP 70 L1180 TUP 840 LO

**Measurem.**

Code 3/7/2023  
Name TTP 70 L1180 TUP 840 LO

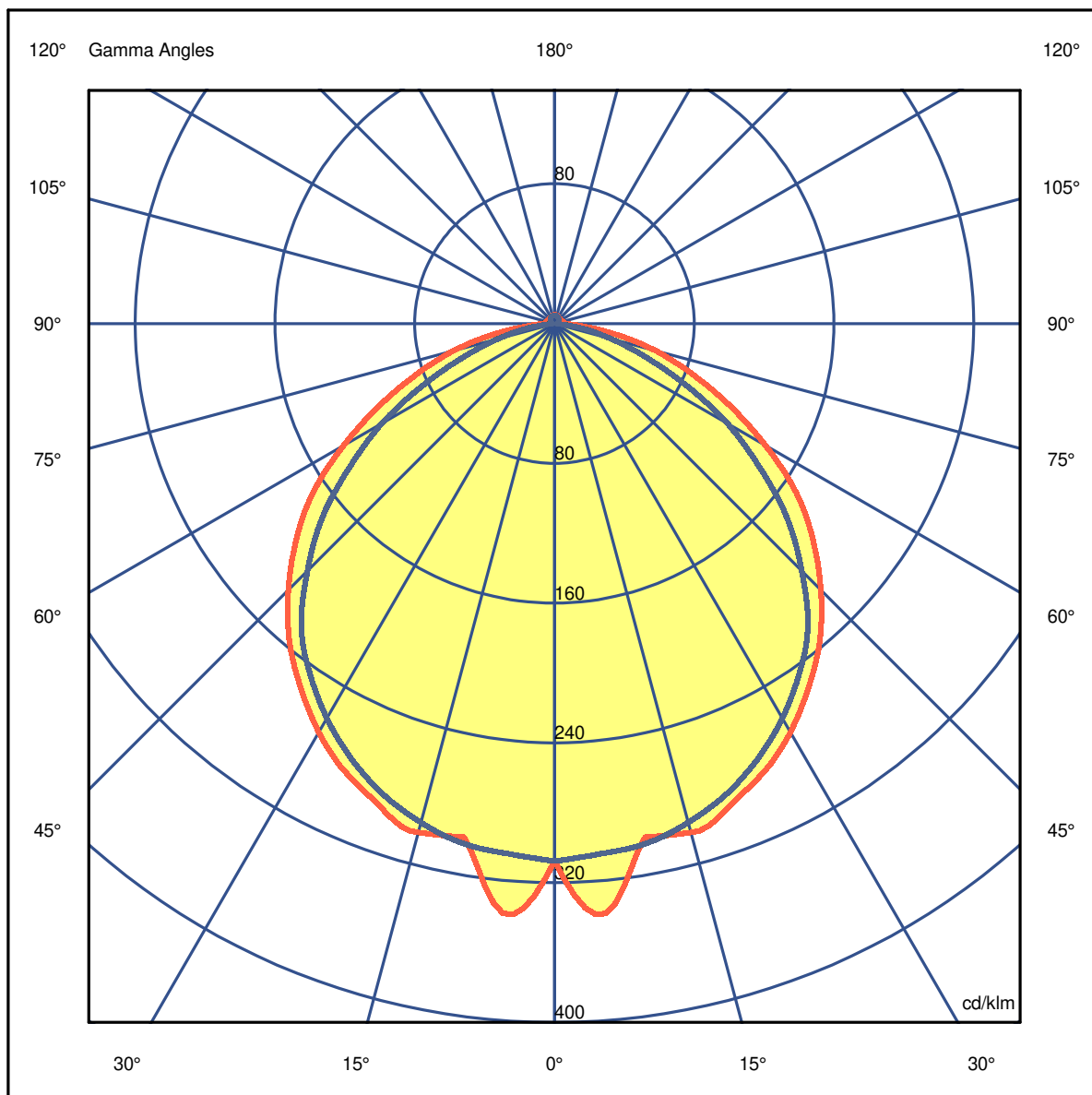
Luminaire Flux	3570 lm	Luminaire Power	21.4 W	Efficacy	166.737 lm/W	Efficiency	90.79%
Source Flux	3932 lm	Maximum value	338.80 cd/klm	Position	C=0.00 G=5.00	CG	Double Symmetrical

1180mm x 70mm



C Halfplanes

180.0 ——— 0.0  
270.0 ——— 90.0



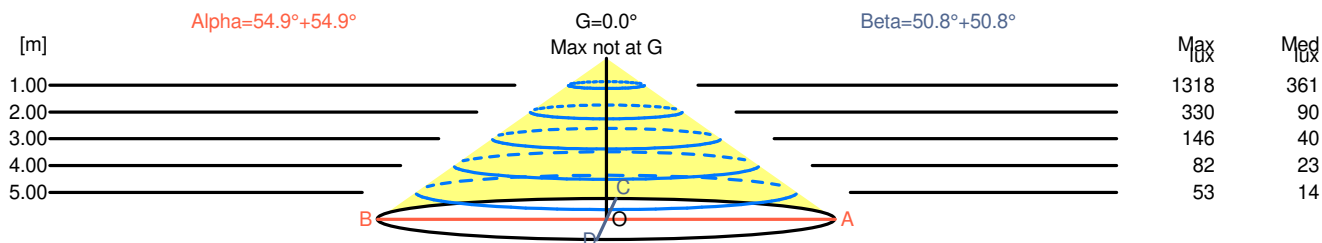
**Luminaire**Code 90477L120  
Name TTP 70 L1180 TUP 840 LO**Measurem.**Code 3/7/2023  
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Luminaire Flux	3570 lm	Luminaire Power	21.4 W	Efficacy	166.737 lm/W	Efficiency	90.79%
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Width at 50.00 % of Max 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	1.42	2.84	4.27	5.69	7.11	OC	1.23	2.45	3.68	4.90	6.13
OB	1.42	2.84	4.27	5.69	7.11	OD	1.23	2.45	3.68	4.90	6.13

	0	5	15	25	35	45	55	65	75	85
OA	1209.48	1332.16	1185.50	1113.94	997.55	847.74	664.11	433.70	235.13	61.34
OB	1209.48	1332.16	1185.50	1113.94	997.55	847.74	664.11	433.70	235.13	61.34
OC	1209.48	1197.69	1162.30	1081.30	960.59	786.40	563.85	324.39	131.72	14.55
OD	1209.48	1197.69	1162.30	1081.30	960.59	786.40	563.85	324.39	131.72	14.55



H[m]	D[m]	Max lux	Med lux	Alpha=54.9°+54.9°	G=0.0 Max not at G	
1.00	2.84	1318	361			
2.00	5.69	330	90			
3.00	8.53	146	40			
4.00	11.38	82	23			
5.00	14.22	53	14			

H[m]	D[m]	Max lux	Med lux	Beta=50.8°+50.8°	G=0.0 Max not at G	
1.00	2.45	1318	361			
2.00	4.90	330	90			
3.00	7.35	146	40			
4.00	9.80	82	23			
5.00	12.25	53	14			

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Luminaire Flux	3570 lm	Luminaire Power	21.4 W	Efficacy	166.737 lm/W	Efficiency	90.79%
Source Flux	3932 lm	Maximum value	338.80 cd/klm	Position	C=0.00 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
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	18.8	20.0	19.1	20.3	20.6	19.9	21.1	20.2	21.4	21.7
x=2H y=3H	19.7	20.9	20.1	21.2	21.5	20.9	22.0	21.2	22.3	22.7
x=2H y=4H	20.1	21.2	20.5	21.5	21.8	21.2	22.3	21.6	22.6	22.9
x=2H y=6H	20.3	21.3	20.7	21.6	22.0	21.3	22.3	21.7	22.7	23.0
x=2H y=8H	20.3	21.3	20.7	21.6	22.0	21.3	22.3	21.7	22.6	23.0
x=2H y=12H	20.3	21.2	20.7	21.6	22.0	21.3	22.2	21.7	22.6	23.0
x=4H y=2H	19.3	20.4	19.7	20.7	21.1	20.2	21.3	20.6	21.6	22.0
x=4H y=3H	20.5	21.4	20.9	21.8	22.2	21.4	22.3	21.8	22.7	23.1
x=4H y=4H	20.9	21.7	21.4	22.1	22.6	21.8	22.6	22.2	23.0	23.5
x=4H y=6H	21.2	21.9	21.7	22.3	22.8	22.0	22.7	22.5	23.1	23.6
x=4H y=8H	21.2	21.9	21.7	22.3	22.8	22.0	22.7	22.5	23.1	23.6
x=4H y=12H	21.3	21.9	21.8	22.3	22.8	22.0	22.6	22.5	23.1	23.6
x=8H y=4H	21.1	21.7	21.6	22.2	22.7	21.9	22.6	22.4	23.0	23.5
x=8H y=6H	21.4	22.0	21.9	22.5	23.0	22.2	22.7	22.7	23.2	23.7
x=8H y=8H	21.5	22.0	22.1	22.5	23.0	22.3	22.7	22.8	23.2	23.8
x=8H y=12H	21.6	22.0	22.1	22.5	23.1	22.3	22.7	22.8	23.2	23.8
x=12H y=4H	21.1	21.7	21.6	22.1	22.6	21.9	22.5	22.4	22.9	23.4
x=12H y=6H	21.5	21.9	22.0	22.4	23.0	22.2	22.7	22.7	23.2	23.7
x=12H y=8H	21.6	22.0	22.1	22.5	23.0	22.3	22.7	22.8	23.2	23.8

**Luminaire**

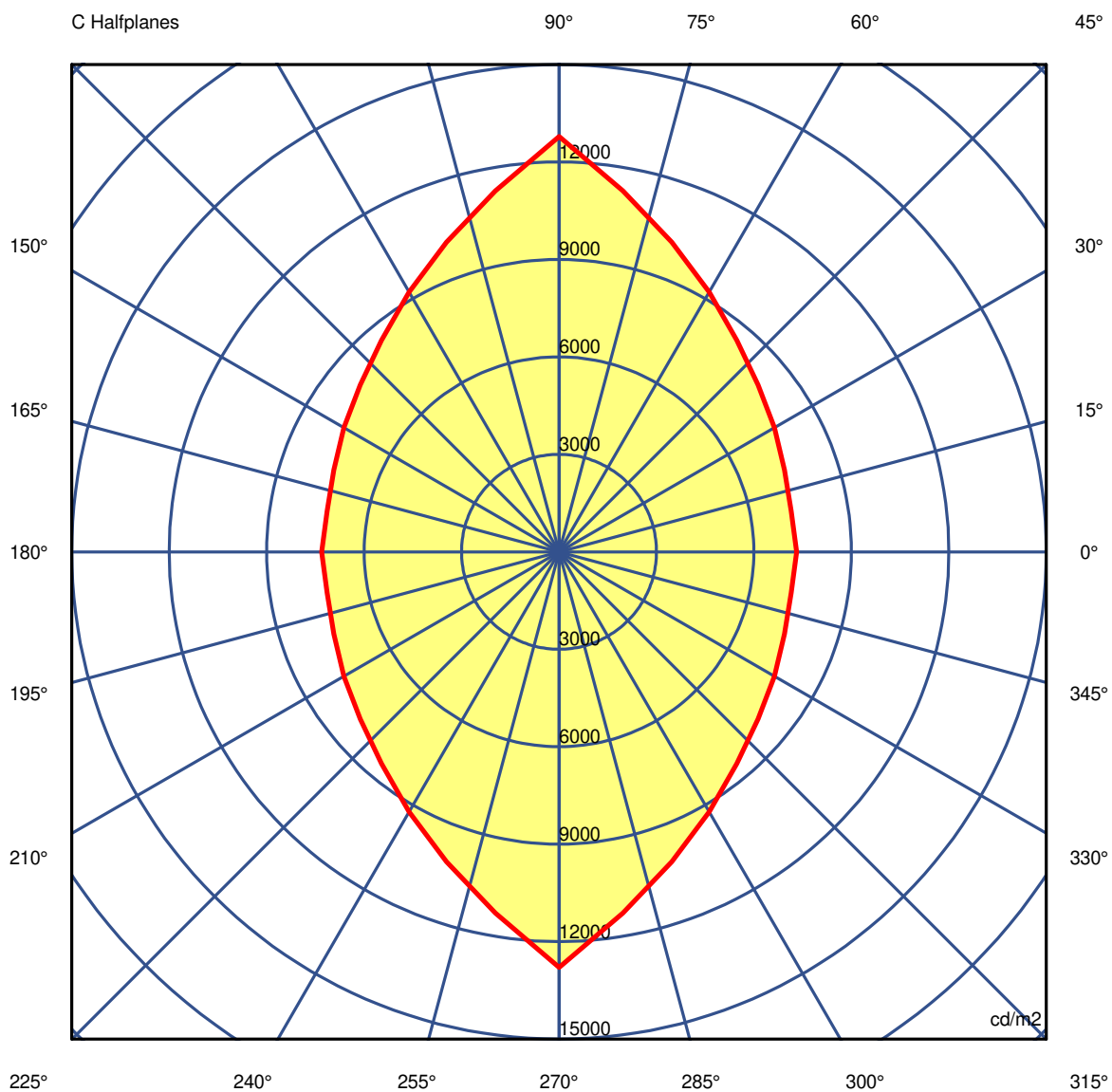
Code 90477L120  
Name TTP 70 L1180 TUP 840 LO

**Measurem.**

Code 3/7/2023  
Name TTP 70 L1180 TUP 840 LO

Luminaire Flux	3570 lm	Luminaire Power	21.4 W	Efficacy	166.737 lm/W	Efficiency	90.79%
Source Flux	3932 lm	Maximum value	338.80 cd/klm	Position	C=0.00 G=5.00	CG Double Symmetrical	

Luminance



45.0°

**Luminaire**Code 90477L120  
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Luminaire Flux	3570 lm		Luminaire Power		21.4 W		Efficacy		166.737 lm/W		Efficiency		90.79%	
Source Flux	3932 lm		Maximum value		338.80 cd/klm		Position		C=0.00 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	14743	14743	14743	14743	14743	14743	14743	14743	14743	14743	14743	14743	14743	
G 5.0	14989	14820	14836	14999	15114	15099	14934	14675	14539	14578	14539	14675	14934	
G 10.0	12345	12230	12261	12461	12852	13686	14636	14931	14799	14549	14799	14931	14636	
G 15.0	11799	11683	11698	11784	11834	12023	12800	14380	15109	14436	15109	14380	12800	
G 20.0	10979	10894	10931	11085	11373	11650	11910	13597	14690	14317	14690	13597	11910	
G 25.0	10217	10176	10262	10474	10776	11101	11626	12632	13558	14149	13558	12632	11626	
G 30.0	9473	9377	9441	9688	10098	10608	11139	11681	12563	13952	12563	11681	11139	
G 35.0	8731	8625	8748	9061	9417	9902	10484	11040	12028	13720	12028	11040	10484	
G 40.0	8039	7985	8094	8343	8726	9291	10007	10712	11820	13447	11820	10712	10007	
G 45.0	7307	7256	7381	7654	7996	8508	9243	10150	11287	12792	11287	10150	9243	
G 50.0	6576	6529	6626	6884	7293	7840	8516	9341	10470	12119	10470	9341	8516	
G 55.0	5812	5769	5859	6078	6432	6913	7543	8483	9628	11041	9628	8483	7543	
G 60.0	4891	4845	4969	5222	5492	5933	6627	7491	8518	9912	8518	7491	6627	
G 65.0	3978	3959	4070	4290	4553	4915	5439	6151	7039	8294	7039	6151	5439	
G 70.0	3122	3091	3186	3372	3551	3807	4222	4797	5529	6645	5529	4797	4222	
G 75.0	2340	2316	2356	2451	2586	2779	3051	3411	3963	5073	3963	3411	3051	
G 80.0	1485	1475	1504	1580	1707	1843	1965	2109	2438	3422	2438	2109	1965	
G 85.0	690	682	703	749	805	909	1084	1189	1227	1209	1227	1189	1084	
G 90.0	335	340	356	385	434	505	582	632	679	963	679	632	582	

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**Measurement**

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Luminaire Flux	3570 lm		Luminaire Power		21.4 W		Efficacy		166.737 lm/W		Efficiency		90.79%	
Source Flux	3932 lm		Maximum value		338.80 cd/klm		Position		C=0.00 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	14743	14743	14743	14743	14743	14743	14743	14743	14743	14743	14743	14743	14743	
G 5.0	15099	15114	14999	14836	14820	14989	14820	14836	14999	15114	15099	14934	14675	
G 10.0	13686	12852	12461	12261	12230	12345	12230	12261	12461	12852	13686	14636	14931	
G 15.0	12023	11834	11784	11698	11683	11799	11683	11698	11784	11834	12023	12800	14380	
G 20.0	11650	11373	11085	10931	10894	10979	10894	10931	11085	11373	11650	11910	13597	
G 25.0	11101	10776	10474	10262	10176	10217	10176	10262	10474	10776	11101	11626	12632	
G 30.0	10608	10098	9688	9441	9377	9473	9377	9441	9688	10098	10608	11139	11681	
G 35.0	9902	9417	9061	8748	8625	8731	8625	8748	9061	9417	9902	10484	11040	
G 40.0	9291	8726	8343	8094	7985	8039	7985	8094	8343	8726	9291	10007	10712	
G 45.0	8508	7996	7654	7381	7256	7307	7256	7381	7654	7996	8508	9243	10150	
G 50.0	7840	7293	6884	6626	6529	6576	6529	6626	6884	7293	7840	8516	9341	
G 55.0	6913	6432	6078	5859	5769	5812	5769	5859	6078	6432	6913	7543	8483	
G 60.0	5933	5492	5222	4969	4845	4891	4845	4969	5222	5492	5933	6627	7491	
G 65.0	4915	4553	4290	4070	3959	3978	3959	4070	4290	4553	4915	5439	6151	
G 70.0	3807	3551	3372	3186	3091	3122	3091	3186	3372	3551	3807	4222	4797	
G 75.0	2779	2586	2451	2356	2316	2340	2316	2356	2451	2586	2779	3051	3411	
G 80.0	1843	1707	1580	1504	1475	1485	1475	1504	1580	1707	1843	1965	2109	
G 85.0	909	805	749	703	682	690	682	703	749	805	909	1084	1189	
G 90.0	505	434	385	356	340	335	340	356	385	434	505	582	632	

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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	14743	14743	14743	14743	14743	14743	14743	14743	14743	14743
G 5.0	14539	14578	14539	14675	14934	15099	15114	14999	14836	14820
G 10.0	14799	14549	14799	14931	14636	13686	12852	12461	12261	12230
G 15.0	15109	14436	15109	14380	12800	12023	11834	11784	11698	11683
G 20.0	14690	14317	14690	13597	11910	11650	11373	11085	10931	10894
G 25.0	13558	14149	13558	12632	11626	11101	10776	10474	10262	10176
G 30.0	12563	13952	12563	11681	11139	10608	10098	9688	9441	9377
G 35.0	12028	13720	12028	11040	10484	9902	9417	9061	8748	8625
G 40.0	11820	13447	11820	10712	10007	9291	8726	8343	8094	7985
G 45.0	11287	12792	11287	10150	9243	8508	7996	7654	7381	7256
G 50.0	10470	12119	10470	9341	8516	7840	7293	6884	6626	6529
G 55.0	9628	11041	9628	8483	7543	6913	6432	6078	5859	5769
G 60.0	8518	9912	8518	7491	6627	5933	5492	5222	4969	4845
G 65.0	7039	8294	7039	6151	5439	4915	4553	4290	4070	3959
G 70.0	5529	6645	5529	4797	4222	3807	3551	3372	3186	3091
G 75.0	3963	5073	3963	3411	3051	2779	2586	2451	2356	2316
G 80.0	2438	3422	2438	2109	1965	1843	1707	1580	1504	1475
G 85.0	1227	1209	1227	1189	1084	909	805	749	703	682
G 90.0	679	963	679	632	582	505	434	385	356	340