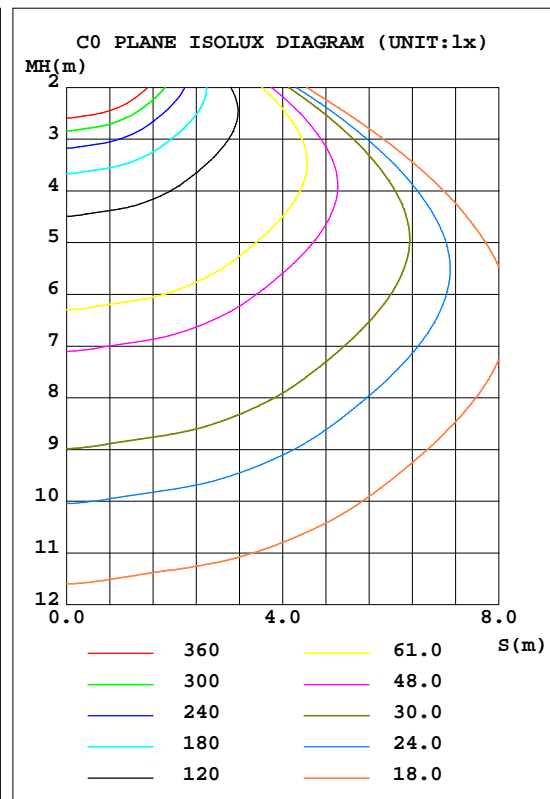
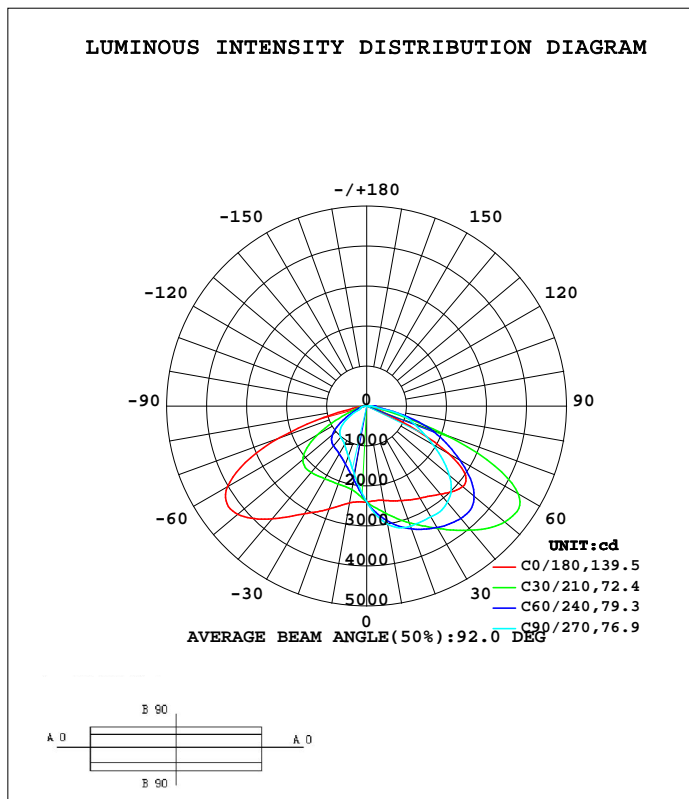


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:219.79V I:0.4698A P:100.57W PF:0.9740 Freq:59.98Hz Lamp Flux:11211.8x1 lm		
NAME: XA-SH100-LJN	TYPE:Epistar	WEIGHT:
SPEC.:3030	DIM.:	SERIAL No.:2017092601
MFR.: Xu An ELECTRONICS	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 111.48 lm/W			
MODEL	XA-SH100-LJN	I _{max} (cd)	5575	S/MH(C0/180)	2.28
NOMINAL POWER(W)	100	LOR(%)	100.0	S/MH(C90/270)	0.66
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	11212	η UP, DN(C0-180)	0.5,68.5
NOMINAL FLUX(lm)	11211.8	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.4,30.6
LAMPS INSIDE	1	η up(%)	0.9	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	220.2	η down(%)	99.1	CIBSE SHR MAX	1.55



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:PanBin
 Test Date:2017-09-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.401
 Humidity:65.0%
 Test Distance:7.140m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	\$lum,lamp
10	2394	2812	2994	2835	2460	1998	1753	1954	0- 10	228.6	228.6	2.04,2.04
20	2517	3186	3195	3224	2739	1816	1345	1705	10- 20	690.8	919.3	8.2,8.2
30	2661	3519	3203	3670	3111	1740	1113	1535	20- 30	1169	2089	18.6,18.6
40	2879	3858	3143	4243	3685	1732	1013	1411	30- 40	1683	3771	33.6,33.6
50	3133	4008	2701	4661	4210	1606	850.8	1181	40- 50	2187	5959	53.1,53.1
60	2356	3530	1912	4451	4013	1014	452.5	520.3	50- 60	2351	8310	74.1,74.1
70	350.5	1890	1244	3243	2314	357.1	171.2	177.4	60- 70	1793	10103	90.1,90.1
80	76.66	337.6	327.1	1141	358.4	146.6	66.62	62.48	70- 80	828.9	10932	97.5,97.5
90	20.80	118.7	108.8	181.5	65.91	31.64	4.515	8.089	80- 90	181.1	11113	99.1,99.1
100	8.648	3.030	14.11	47.03	18.58	8.769	7.385	12.76	90-100	46.07	11159	99.5,99.5
110	12.84	4.489	2.246	2.668	8.665	12.68	10.38	16.82	100-110	10.41	11169	99.6,99.6
120	15.35	6.256	3.204	4.060	11.58	15.17	12.78	18.22	110-120	9.934	11179	99.7,99.7
130	14.92	7.371	4.126	5.352	12.31	15.26	13.96	16.98	120-130	10.04	11189	99.8,99.8
140	12.92	7.777	4.912	5.964	11.54	13.87	13.90	14.81	130-140	8.565	11198	99.9,99.9
150	11.00	7.863	5.449	6.164	10.42	11.92	12.62	12.60	140-150	6.436	11204	99.9,99.9
160	10.02	8.178	6.372	6.509	9.383	10.35	11.00	10.71	150-160	4.306	11208	100,100
170	9.483	8.683	7.563	7.304	9.150	9.751	9.931	9.387	160-170	2.532	11211	100,100
180	9.305	9.302	8.843	8.318	9.312	9.314	8.843	8.327	170-180	0.8471	11212	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

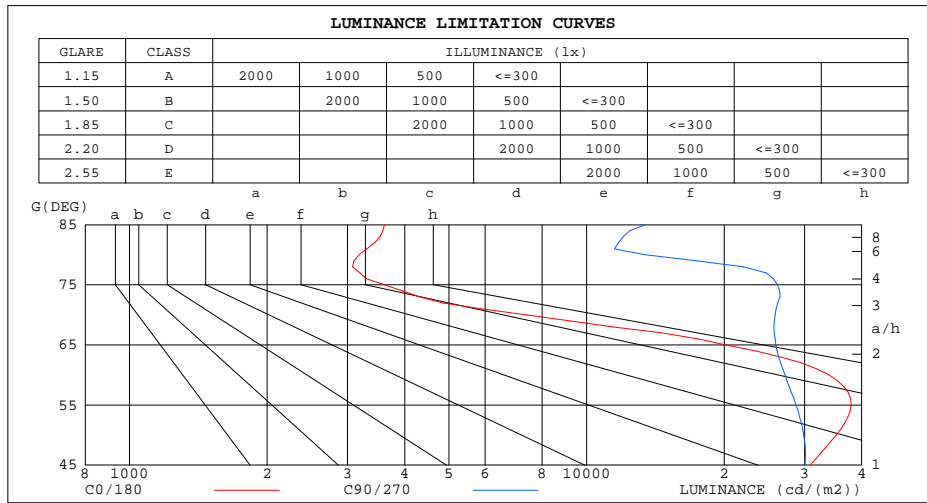
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:PanBin
 Test Date:2017-09-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.401
 Humidity:65.0%
 Test Distance:7.140m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINANCE LIMITATION CURVES

Test:U:219.79V I:0.4698A P:100.57W PF:0.9740 Freq:59.98Hz Lamp Flux:11211.8x1 lm		
NAME: XA-SH100-LJN	TYPE:Epistar	WEIGHT:
SPEC.:3030	DIM.:	SERIAL No.:2017092601
MFR.: Xu An ELECTRONICS	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	3614	13474
80	3182	13391
75	3613	26151
70	7386	25865
65	20179	25956
60	33964	27183
55	37923	28732
50	35131	29872
45	30846	30049

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:PanBin
 Test Date:2017-09-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.401
 Humidity:65.0%
 Test Distance:7.140m [K=1.0000]
 Remarks:

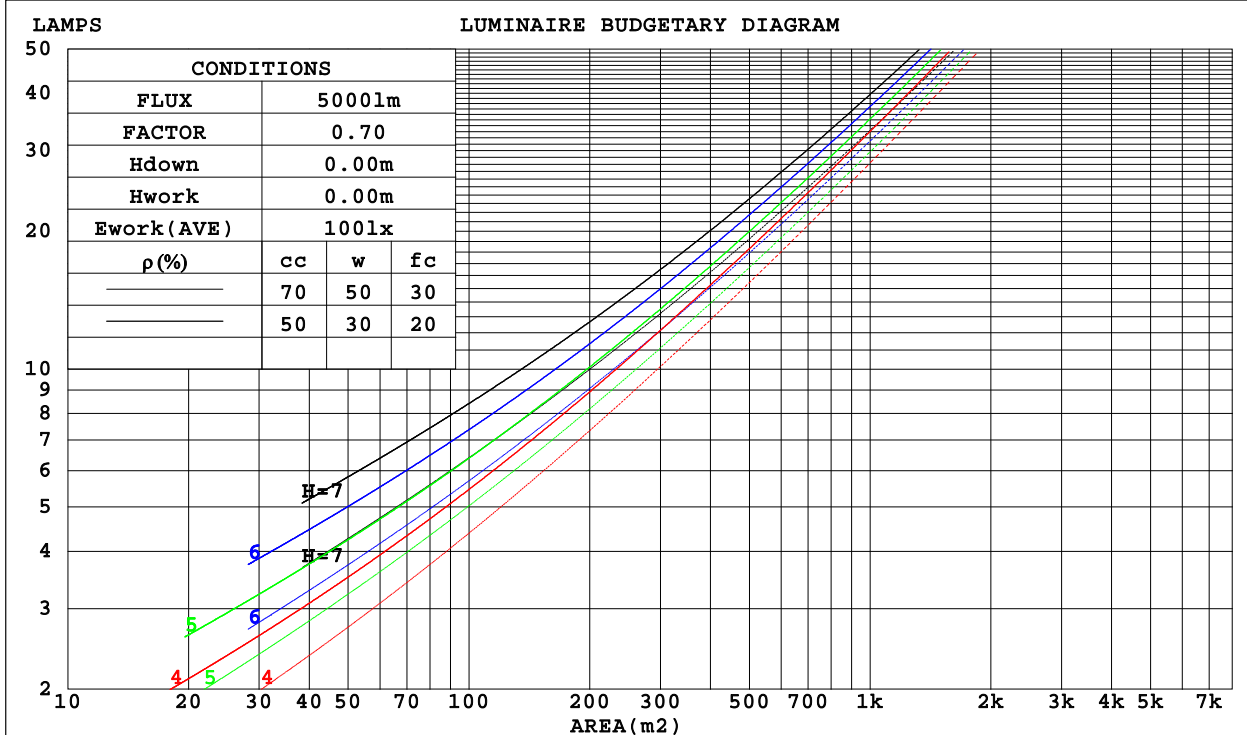


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:219.79V I:0.4698A P:100.57W PF:0.9740 Freq:59.98Hz Lamp Flux:11211.8x1 lm		
NAME: XA-SH100-LJN	TYPE:Epistar	WEIGHT:
SPEC.:3030	DIM.:	SERIAL No.:2017092601
MFR.: Xu An ELECTRONICS	SUR.:	Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.01	1.01	1.01	.99
1.0	1.03	.98	.94	1.00	.96	.92	.96	.92	.89	.92	.89	.86	.88	.86	.84	.81
2.0	.88	.81	.74	.86	.79	.73	.82	.77	.72	.79	.74	.70	.76	.72	.68	.66
3.0	.76	.67	.60	.74	.66	.59	.71	.64	.58	.68	.62	.57	.65	.60	.56	.54
4.0	.66	.57	.49	.65	.56	.49	.62	.54	.48	.60	.53	.47	.57	.51	.47	.44
5.0	.58	.49	.41	.57	.48	.41	.55	.47	.41	.53	.46	.40	.51	.44	.39	.37
6.0	.52	.42	.35	.51	.42	.35	.49	.41	.35	.47	.40	.34	.45	.39	.34	.32
7.0	.46	.37	.30	.45	.37	.30	.44	.36	.30	.42	.35	.30	.41	.34	.29	.27
8.0	.42	.33	.27	.41	.32	.26	.40	.32	.26	.38	.31	.26	.37	.31	.26	.24
9.0	.38	.29	.23	.37	.29	.23	.36	.28	.23	.35	.28	.23	.34	.27	.23	.21
10.0	.35	.26	.21	.34	.26	.21	.33	.26	.21	.32	.25	.20	.31	.25	.20	.18



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:PanBin
 Test Date:2017-09-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.401
 Humidity:65.0%
 Test Distance:7.140m [K=1.0000]
 Remarks:



EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

WEC AND CCEC

Test:U:219.79V I:0.4698A P:100.57W PF:0.9740 Freq:59.98Hz Lamp Flux:11211.8x1 lm		
NAME: XA-SH100-LJN	TYPE:Epistar	WEIGHT:
SPEC.:3030	DIM.:	SERIAL No.:2017092601
MFR.: Xu An ELECTRONICS	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.329	.187	.059	.322	.183	.058	.308	.177	.056	.295	.170	.055	.283	.164	.053	
2.0	.313	.171	.053	.306	.169	.052	.294	.163	.051	.283	.158	.050	.272	.154	.049	
3.0	.290	.154	.046	.284	.152	.046	.273	.148	.045	.263	.144	.044	.254	.140	.043	
4.0	.268	.139	.041	.262	.137	.041	.253	.134	.040	.243	.131	.039	.235	.128	.039	
5.0	.247	.126	.036	.242	.124	.036	.233	.121	.036	.225	.119	.035	.217	.116	.035	
6.0	.228	.114	.033	.224	.113	.033	.216	.111	.032	.209	.108	.032	.202	.106	.032	
7.0	.212	.105	.030	.208	.104	.030	.201	.102	.029	.194	.100	.029	.188	.098	.029	
8.0	.197	.096	.027	.194	.095	.027	.187	.094	.027	.181	.092	.026	.176	.090	.026	
9.0	.184	.089	.025	.181	.088	.025	.175	.087	.025	.170	.085	.024	.165	.084	.024	
10.0	.172	.083	.023	.170	.082	.023	.165	.081	.023	.160	.079	.023	.155	.078	.022	

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.197	.197	.197	.169	.169	.169	.115	.115	.115	.066	.066	.066	.021	.021	.021	
1.0	.188	.163	.140	.161	.140	.120	.110	.096	.083	.063	.056	.048	.020	.018	.016	
2.0	.182	.139	.102	.156	.119	.088	.107	.083	.062	.062	.048	.036	.020	.016	.012	
3.0	.175	.121	.078	.150	.105	.068	.103	.073	.048	.060	.042	.028	.019	.014	.009	
4.0	.168	.108	.062	.144	.094	.054	.099	.065	.038	.057	.038	.023	.018	.012	.007	
5.0	.161	.098	.052	.138	.085	.045	.095	.059	.032	.055	.035	.019	.018	.011	.006	
6.0	.154	.090	.044	.132	.078	.038	.091	.055	.027	.053	.032	.016	.017	.010	.005	
7.0	.147	.083	.038	.127	.072	.033	.087	.051	.024	.051	.030	.014	.016	.010	.005	
8.0	.141	.078	.034	.121	.067	.030	.084	.047	.021	.049	.028	.013	.016	.009	.004	
9.0	.134	.073	.031	.116	.063	.027	.080	.044	.019	.047	.026	.011	.015	.009	.004	
10.0	.128	.068	.028	.111	.059	.025	.077	.042	.018	.045	.025	.011	.015	.008	.003	

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:PanBin
 Test Date:2017-09-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.401
 Humidity:65.0%
 Test Distance:7.140m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

UGR(Unified Glare Rating) Table

Test:U:219.79V I:0.4698A P:100.57W PF:0.9740 Freq:59.98Hz Lamp Flux:11211.8x1 lm										
NAME: XA-SH100-LJN					TYPE:Epistar			WEIGHT:		
SPEC.:3030					DIM.:			SERIAL No.:2017092601		
MFR.: Xu An ELECTRONICS					SUR.:			Shielding Angle:		
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	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	20.0	21.6	20.3	21.8	22.1	17.9	19.5	18.2	19.8	20.0
3H	20.6	22.1	20.9	22.3	22.6	19.3	20.8	19.6	21.0	21.3
4H	20.5	21.9	20.9	22.2	22.5	19.8	21.3	20.2	21.5	21.8
6H	20.4	21.8	20.8	22.1	22.4	20.1	21.4	20.4	21.7	22.0
8H	20.4	21.7	20.7	22.0	22.3	20.1	21.4	20.4	21.7	22.0
12H	20.3	21.6	20.7	21.9	22.2	20.1	21.3	20.4	21.6	22.0
4H 2H	20.8	22.2	21.1	22.5	22.7	19.3	20.7	19.6	21.0	21.3
3H	21.7	22.9	22.0	23.2	23.6	20.7	22.0	21.1	22.3	22.6
4H	21.7	22.8	22.1	23.2	23.5	21.3	22.4	21.7	22.8	23.1
6H	21.6	22.6	22.0	23.0	23.4	21.6	22.6	22.0	22.9	23.3
8H	21.6	22.5	22.0	22.9	23.3	21.6	22.5	22.0	22.9	23.3
12H	21.5	22.4	22.0	22.8	23.2	21.6	22.5	22.0	22.9	23.3
8H 4H	21.8	22.7	22.2	23.1	23.5	21.5	22.4	21.9	22.8	23.2
6H	21.7	22.5	22.2	23.0	23.4	21.8	22.6	22.3	23.0	23.5
8H	21.7	22.4	22.2	22.9	23.3	21.9	22.6	22.4	23.0	23.5
12H	21.7	22.3	22.2	22.8	23.3	22.0	22.6	22.5	23.0	23.5
12H 4H	21.8	22.6	22.2	23.0	23.5	21.4	22.3	21.9	22.7	23.1
6H	21.7	22.4	22.2	22.9	23.4	21.8	22.5	22.3	23.0	23.4
8H	21.7	22.3	22.2	22.8	23.3	21.9	22.5	22.4	23.0	23.5
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.3					+ 0.2 / - 0.3				
1.5H	+ 1.4 / - 1.4					+ 0.4 / - 0.6				
2.0H	+ 2.0 / - 3.3					+ 0.6 / - 0.9				

CIE Pub.117, 11212 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 8.4)

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:PanBin
 Test Date:2017-09-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.401
 Humidity:65.0%
 Test Distance:7.140m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

UTILIZATION FACTORS TABLE

Test:U:219.79V I:0.4698A P:100.57W PF:0.9740 Freq:59.98Hz Lamp Flux:11211.8x1 lm		
NAME: XA-SH100-LJN	TYPE:Epistar	WEIGHT:
SPEC.:3030	DIM.:	SERIAL No.:2017092601
MFR.: Xu An ELECTRONICS	SUR.:	Shielding Angle:

REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	51	38	30	50	38	30	49	37	30	23
0.80	61	48	40	60	48	40	58	47	40	32
1.00	71	58	50	69	58	50	67	59	49	41
1.25	78	67	59	77	66	58	74	64	58	49
1.50	84	73	65	82	72	65	79	70	64	55
2.00	92	82	75	90	81	74	86	79	73	64
2.50	96	88	81	94	86	80	90	84	78	69
3.00	100	93	87	98	91	85	94	88	83	74
4.00	105	98	93	102	97	92	98	93	89	80
5.00	107	102	98	105	100	96	100	96	93	83
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

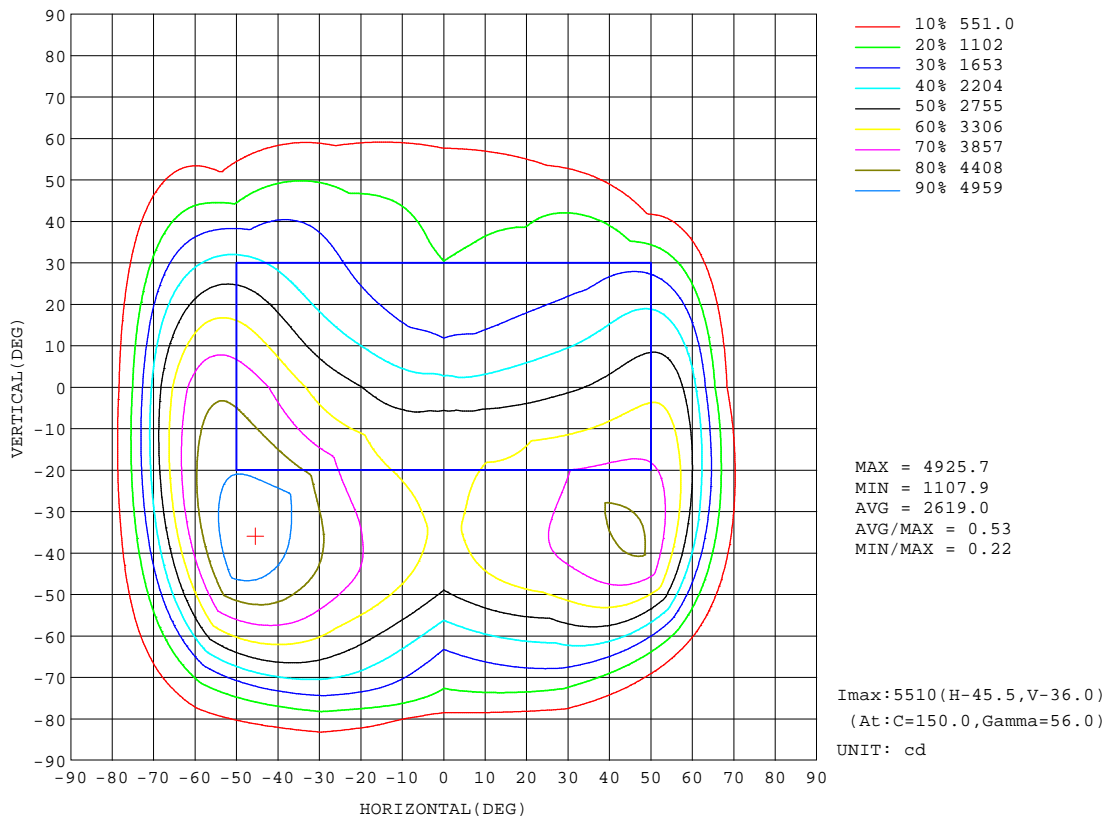
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 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.401
 Humidity:65.0%
 Test Distance:7.140m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Test:U:219.79V I:0.4698A P:100.57W PF:0.9740 Freq:59.98Hz Lamp Flux:11211.8x1 lm		
NAME: XA-SH100-LJN	TYPE:Epistar	WEIGHT:
SPEC.:3030	DIM.:	SERIAL No.:2017092601
MFR.: Xu An ELECTRONICS	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:PanBin
 Test Date:2017-09-21

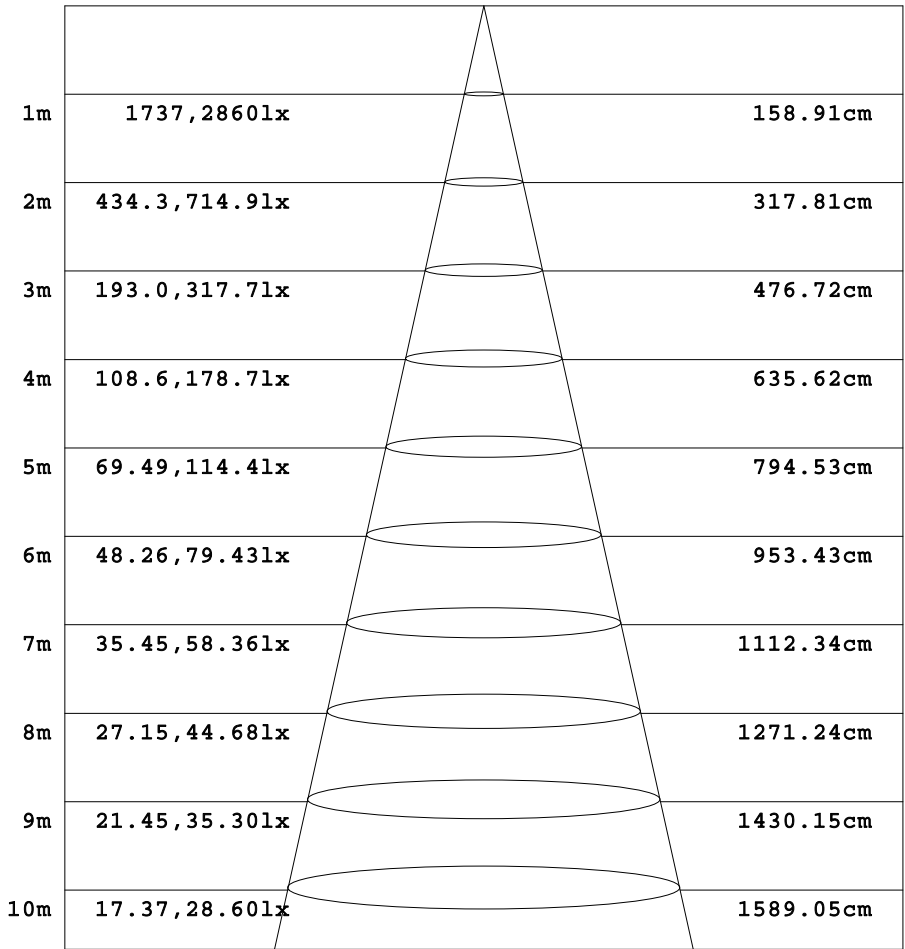
γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.401
 Humidity:65.0%
 Test Distance:7.140m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

AAI Figure

Test:U:219.79V I:0.4698A P:100.57W PF:0.9740 Freq:59.98Hz Lamp Flux:11211.8x1 lm		
NAME: XA-SH100-LJN	TYPE:Epistar	WEIGHT:
SPEC.:3030	DIM.:	SERIAL No.:2017092601
MFR.: Xu An ELECTRONICS	SUR.:	Shielding Angle:

Flux out:3579 lm



Height Eavg, Emax Angle:76.94deg Diameter

Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

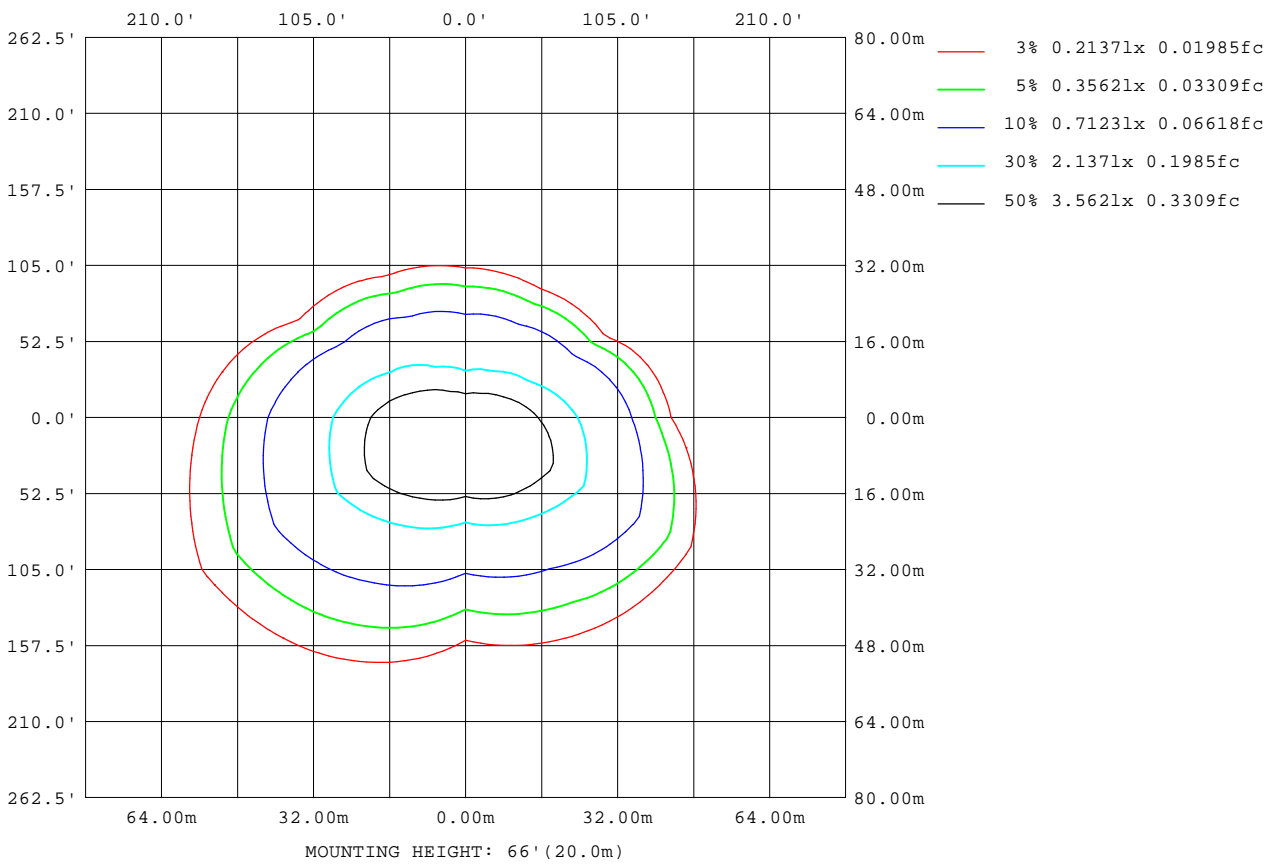
C Range: 0 - 360DEG
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 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.401
 Humidity:65.0%
 Test Distance:7.140m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Test:U:219.79V I:0.4698A P:100.57W PF:0.9740 Freq:59.98Hz Lamp Flux:11211.8x1 lm		
NAME: XA-SH100-LJN	TYPE:Epistar	WEIGHT:
SPEC.:3030	DIM.:	SERIAL No.:2017092601
MFR.: Xu An ELECTRONICS	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:PanBin
 Test Date:2017-09-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.401
 Humidity:65.0%
 Test Distance:7.140m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LED Avg.L Report

Test:U:219.79V I:0.4698A P:100.57W PF:0.9740 Freq:59.98Hz Lamp Flux:11211.8x1 lm		
NAME: XA-SH100-LJN	TYPE:Epistar	WEIGHT:
SPEC.:3030	DIM.:	SERIAL No.:2017092601
MFR.: Xu An ELECTRONICS	SUR.:	Shielding Angle:

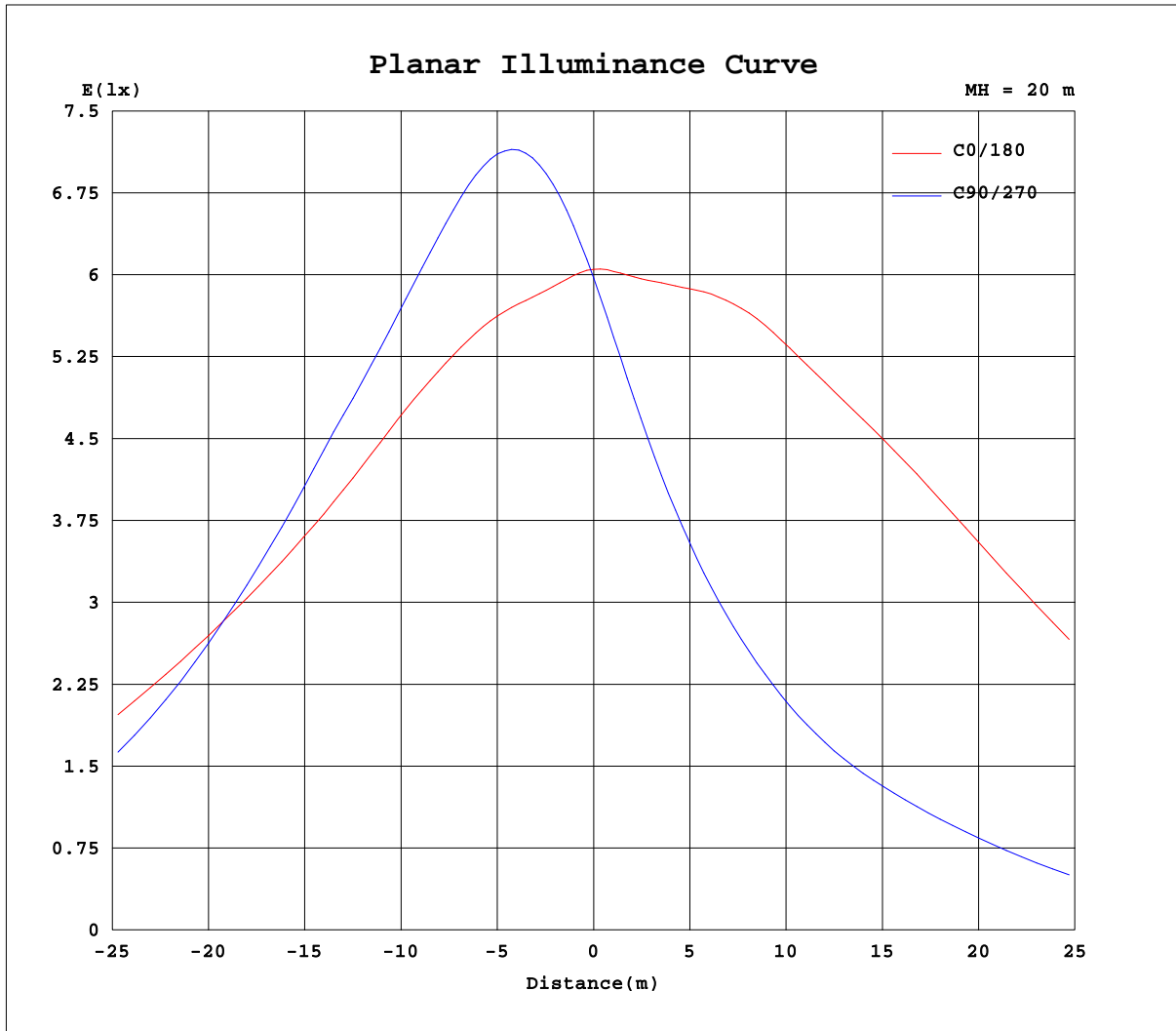
AvgL	cd/m2
L_0~180(65)av	38298
L_0~180(75)av	17088
L_0~180(85)av	6634
L_90~270(65)av	14804
L_90~270(75)av	15007
L_90~270(85)av	7503
L_45(65)av	33540
L_45(75)av	25014
L_45(85)av	14884

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:PanBin
 Test Date:2017-09-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.401
 Humidity:65.0%
 Test Distance:7.140m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: PanBin
 Test Date: 2017-09-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.401
 Humidity: 65.0%
 Test Distance: 7.140m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:219.79V I:0.4698A P:100.57W PF:0.9740 Freq:59.98Hz Lamp Flux:11211.8x1 lm		
NAME: XA-SH100-LJN	TYPE:Epistar	WEIGHT:
SPEC.:3030	DIM.:	SERIAL No.:2017092601
MFR.: Xu An ELECTRONICS	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	2399	2399	2399	2399	2399	2399	2399	2399	2399	2399	2399	2399						
5	2377	2550	2673	2731	2688	2573	2406	2236	2115	2056	2099	2208						
10	2394	2719	2905	2994	2919	2750	2460	2128	1869	1753	1839	2070						
15	2454	2907	3107	3149	3086	2962	2578	2086	1688	1520	1649	1985						
20	2517	3104	3268	3195	3219	3228	2739	2080	1553	1345	1494	1917						
25	2589	3302	3396	3198	3358	3499	2915	2083	1455	1212	1375	1858						
30	2661	3531	3507	3203	3522	3819	3111	2100	1380	1113	1275	1797						
35	2751	3786	3601	3216	3686	4212	3373	2130	1330	1050	1197	1738						
40	2879	4049	3667	3143	3826	4662	3685	2168	1297	1013	1140	1685						
45	3026	4311	3669	2989	3927	5096	3982	2173	1242	960	1068	1617						
50	3133	4508	3507	2701	3924	5404	4210	2087	1124	851	921	1444						
55	3018	4592	3165	2318	3758	5572	4265	1827	910	665	678	1084						
60	2356	4371	2690	1912	3446	5462	4013	1388	641	453	422	619						
65	1183	3529	2193	1543	3065	4893	3349	870	405	209	262	299						
70	350	2076	1704	1244	2577	3914	2314	448	266	171	184	171						
75	130	724	1088	952	1891	2592	1109	251	186	136	130	100						
80	76.7	198	477	327	1076	1206	358	165	128	66.6	65.8	59.1						
85	43.7	93.7	215	165	463	405	118	84.4	57.4	17.9	16.5	31.6						
90	20.8	41.0	196	109	240	123	65.9	45.3	18.0	4.51	7.25	8.93						
95	6.74	13.2	54.2	73.1	181	68.9	37.4	26.3	6.50	5.87	9.28	11.4						
100	8.65	3.73	2.33	14.1	64.1	29.8	18.6	9.23	8.30	7.39	11.4	14.2						
105	10.8	4.71	2.52	1.85	2.07	4.71	7.12	11.4	10.1	8.93	13.3	16.8						
110	12.8	5.86	3.12	2.25	2.13	3.21	8.66	13.5	11.8	10.4	14.9	18.8						
115	14.4	7.03	3.77	2.72	2.62	4.05	10.3	15.2	13.3	11.7	16.0	19.9						
120	15.4	8.07	4.44	3.20	3.18	4.95	11.6	16.1	14.3	12.8	16.4	20.0						
125	15.5	8.80	5.05	3.74	3.76	5.80	12.3	16.2	14.7	13.5	16.4	19.2						
130	14.9	9.19	5.56	4.13	4.28	6.44	12.3	15.7	14.8	14.0	16.0	18.0						
135	14.1	9.27	5.93	4.60	4.68	6.83	12.0	14.9	14.5	14.1	15.4	16.6						
140	12.9	9.27	6.28	4.91	4.96	6.98	11.5	13.9	13.9	13.9	14.5	15.1						
145	12.1	9.12	6.55	5.19	5.19	7.06	11.0	12.8	13.1	13.3	13.8	13.7						
150	11.0	8.95	6.78	5.45	5.42	6.91	10.4	11.7	12.1	12.6	12.8	12.4						
155	10.5	8.80	7.05	5.87	5.62	6.84	9.78	10.7	11.2	11.7	11.7	11.1						
160	10.0	8.93	7.43	6.37	6.06	6.96	9.38	10.1	10.6	11.0	10.8	10.6						
165	9.69	8.93	7.87	6.93	6.56	7.16	9.23	9.80	10.1	10.5	10.2	9.82						
170	9.48	9.03	8.33	7.56	7.13	7.48	9.15	9.62	9.88	9.93	9.50	9.27						
175	9.42	9.25	8.87	8.24	7.76	7.91	9.18	9.49	9.60	9.33	8.90	8.71						
180	9.30	9.35	9.25	8.84	8.35	8.29	9.31	9.34	9.29	8.84	8.37	8.28						

C Range: 0 - 360DEG
 C Interval: 30.0DEG
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γ Range: 0 - 180DEG
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