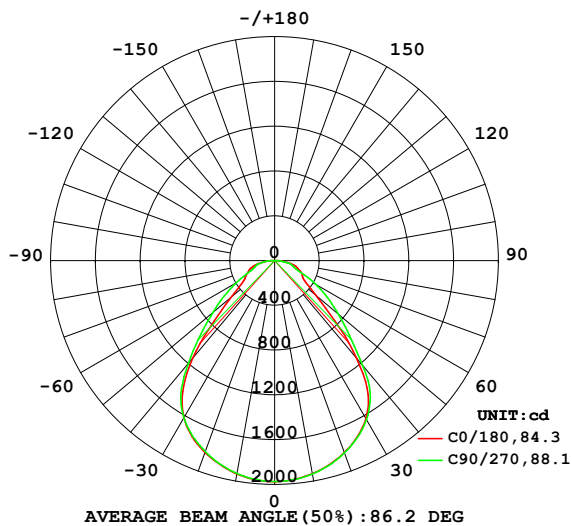


## LUMINAIRE PHOTOMETRIC TEST REPORT

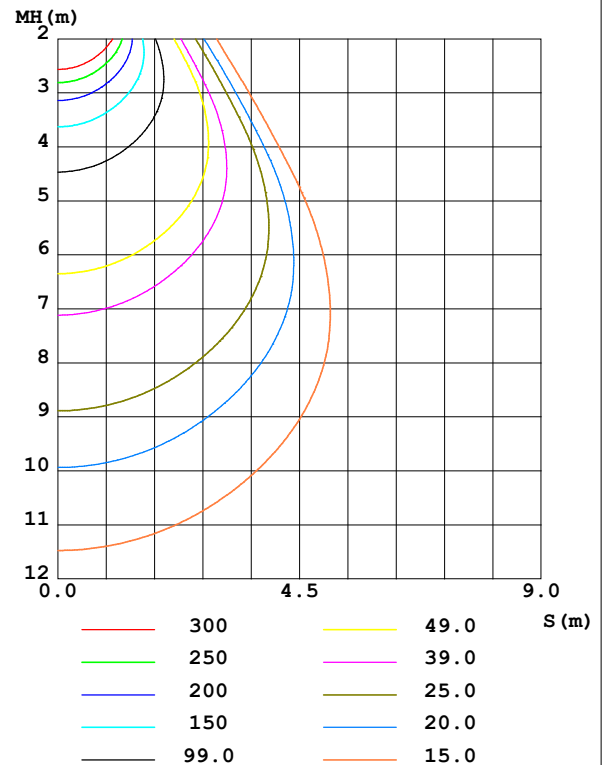
Test:U:230.75V I:0.1583A P:35.384W PF:0.9685 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:4031.23x1 lm		
NameAA: Calex Ignis STP120 595x595mm UGR<19 20/25/30/Type:40W 3000 WH	Weight:	
SPEC.: 3000K	DIM.:	Instrument No.: HUP-IES2
MFR.: CALEX	SUR.: 0.553*0.553	shielding angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 113.93 lm/W
MODEL	70002000300	Imax (cd)	1975	S/MH(C0/180)	1.20	
NOMINAL POWER(W)	36	LOR(%)	100.0	S/MH(C90/270)	1.24	
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	4031.2	$\eta$ UP,DN(C0-180)	0.0,50.0	
NOMINAL FLUX(lm)	4031.23	CIE CLASS	DIRECT	$\eta$ UP,DN(C180-360)	0.0,50.0	
LAMPS INSIDE	1	$\eta$ up (%)	0.0	CIBSE SHR NOM	1.25	
TEST VOLTAGE(V)	230	$\eta$ down (%)	100.0	CIBSE SHR MAX	1.30	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:LiXiaoFei  
Test Date:2025-08-23

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
Humidity:65.0%  
Test Distance:9.550m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	1935	1932	1932	1931	1934	1934	1936	1936	0- 10	186.5	186.5	4.63,4.63
20	1822	1814	1814	1818	1824	1825	1827	1823	10- 20	532.0	718.5	17.8,17.8
30	1621	1620	1621	1628	1630	1637	1640	1632	20- 30	799.7	1518	37.7,37.7
40	1140	1169	1200	1181	1141	1214	1226	1190	30- 40	899.8	2418	60,60
50	501.9	603.9	718.7	597.6	479.3	603.6	743.9	614.3	40- 50	670.7	3089	76.6,76.6
60	305.2	361.0	395.1	362.5	289.3	351.3	426.6	356.5	50- 60	410.9	3500	86.8,86.8
70	239.4	231.1	198.1	225.2	224.8	232.5	191.0	219.7	60- 70	279.0	3779	93.7,93.7
80	132.4	128.6	121.6	125.0	128.7	112.7	115.7	126.6	70- 80	184.6	3963	98.3,98.3
90	3.186	5.281	3.821	2.882	2.604	5.803	3.948	4.005	80- 90	68.01	4031	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 2794.8 lm

%lum = 69.3%

%lamp = 69.3%

Conical surface Flux(120deg): 3499.6 lm

%lum = 86.8%

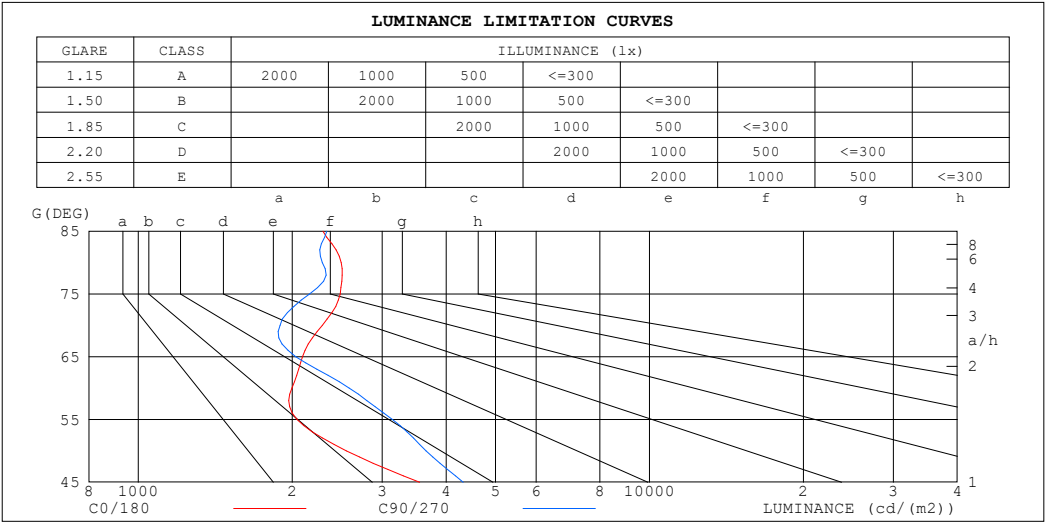
%lamp = 86.8%

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3℃  
 Operators:LiXiaoFei  
 Test Date:2025-08-23

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
 Humidity:65.0%  
 Test Distance:9.550m [K=1.0000]  
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:230.75V I:0.1583A P:35.384W PF:0.9685 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:4031.23x1 lm		
NameAA: Calex lgnis STP120 595x595mm UGR<19 20/25/30/35/40W 360T WH	Weight:	
SPEC.: 3000K	DIM.:	Instrument No.: HUP-IES2
MFR.: CALEX	SUR.: 0.553*0.553	shielding angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2296	2336
80	2494	2290
75	2482	2164
70	2289	1894
65	2094	2033
60	1996	2584
55	2043	3141
50	2553	3656
45	3549	4319

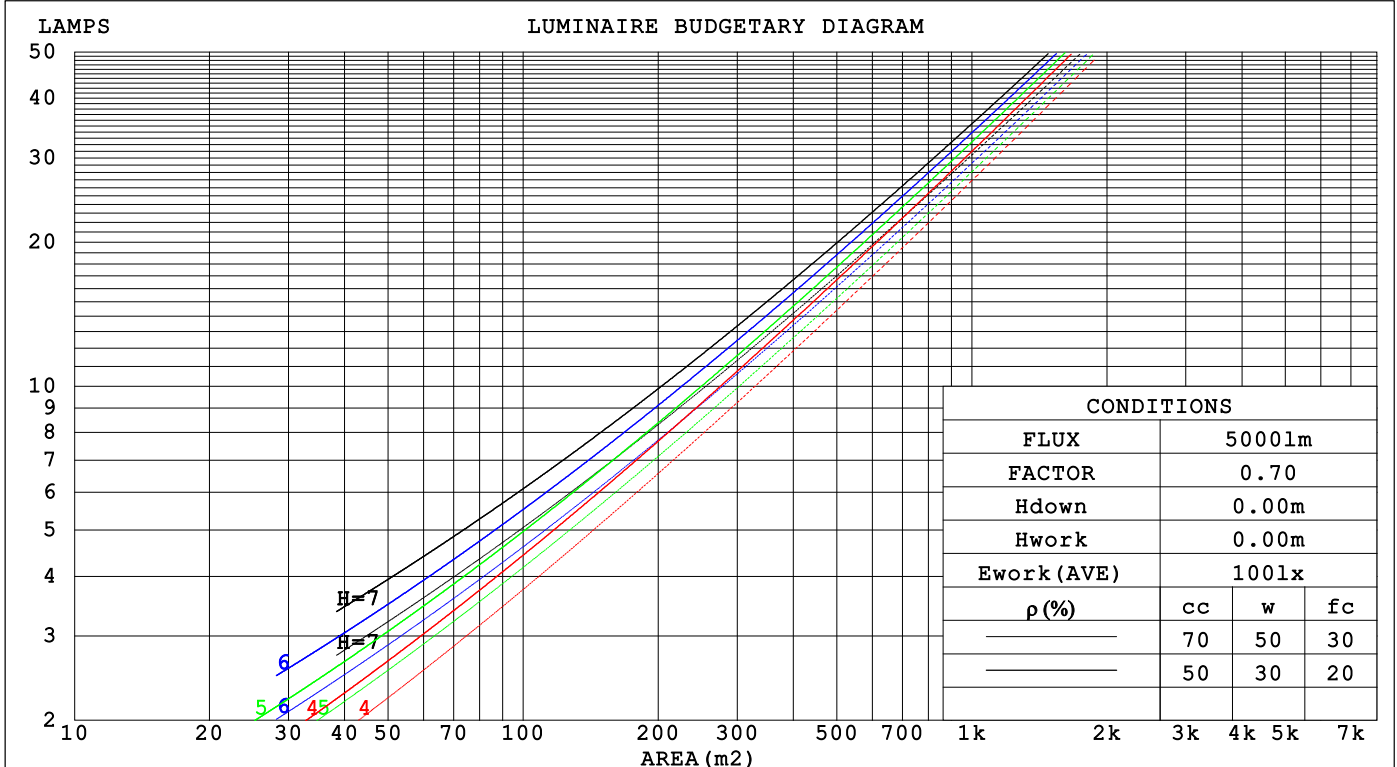
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:LiXiaoFei  
Test Date:2025-08-23

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
Humidity:65.0%  
Test Distance:9.550m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.75V I:0.1583A P:35.384W PF:0.9685 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:4031.23x1 lm		
NameAA: Calex lgnis STP120 595x595mm UGR<19 20/25/30/35/40W 3000 WH		Weight:
SPEC.: 3000K	DIM.:	Instrument No.: HUP-IES2
MFR.: CALEX	SUR.: 0.553*0.553	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															



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:LiXiaoFei  
Test Date:2025-08-23

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
Humidity:65.0%  
Test Distance:9.550m [K=1.0000]  
Remarks:

## WEC AND CCEC

Test:U:230.75V I:0.1583A P:35.384W PF:0.9685 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:4031.23x1 lm		
NameAA: Calex lgnis STP120 595x595mm UGR<19 20/25/30/Type:40W 3000 WH		Weight:
SPEC.: 3000K	DIM.:	Instrument No.: HUP-IES2
MFR.: CALEX	SUR.: 0.553*0.553	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	.270	.153	.049	.263	.150	.048	.250	.143	.046	.238	.137	.044	.227	.131	.042		
2.0	.254	.139	.043	.248	.136	.042	.236	.131	.041	.226	.127	.040	.216	.122	.039		
3.0	.236	.126	.038	.231	.124	.037	.221	.120	.036	.212	.116	.036	.203	.113	.035		
4.0	.220	.114	.034	.216	.113	.033	.207	.110	.033	.199	.107	.032	.191	.104	.032		
5.0	.206	.105	.030	.201	.103	.030	.194	.101	.030	.186	.098	.029	.180	.096	.029		
6.0	.192	.096	.028	.189	.095	.027	.182	.093	.027	.175	.091	.027	.169	.089	.026		
7.0	.181	.089	.025	.177	.088	.025	.171	.087	.025	.165	.085	.025	.160	.083	.024		
8.0	.170	.083	.023	.167	.082	.023	.162	.081	.023	.156	.079	.023	.152	.078	.023		
9.0	.160	.078	.022	.158	.077	.022	.153	.076	.021	.148	.074	.021	.144	.073	.021		
10.0	.152	.073	.020	.149	.072	.020	.145	.071	.020	.141	.070	.020	.137	.069	.020		

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020		
1.0	.178	.156	.138	.152	.134	.118	.104	.092	.082	.060	.053	.048	.019	.017	.015		
2.0	.167	.132	.103	.143	.114	.089	.098	.079	.062	.057	.046	.036	.018	.015	.012		
3.0	.158	.114	.079	.135	.098	.069	.093	.068	.048	.054	.040	.028	.017	.013	.009		
4.0	.150	.100	.063	.128	.087	.054	.088	.060	.038	.051	.035	.023	.016	.012	.007		
5.0	.142	.090	.051	.122	.078	.044	.084	.054	.031	.049	.032	.019	.016	.010	.006		
6.0	.135	.081	.042	.116	.070	.037	.080	.049	.026	.046	.029	.015	.015	.009	.005		
7.0	.129	.074	.036	.111	.064	.031	.076	.045	.022	.044	.026	.013	.014	.009	.004		
8.0	.122	.068	.031	.105	.059	.027	.073	.041	.019	.042	.024	.011	.014	.008	.004		
9.0	.117	.063	.027	.101	.055	.023	.070	.038	.017	.041	.023	.010	.013	.007	.003		
10.0	.112	.059	.024	.096	.051	.021	.067	.036	.015	.039	.021	.009	.013	.007	.003		

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:LiXiaoFei  
Test Date:2025-08-23

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
Humidity:65.0%  
Test Distance:9.550m [K=1.0000]  
Remarks:

UGR(Unified Glare Rating) Table

Test:U:230.75V I:0.1583A P:35.384W PF:0.9685 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:4031.23x1 lm										
NameAA: Calex Ignis STP120 595x595mm UGR<19 20/25/30/Type:LOW 3000 WH								Weight:		
SPEC.: 3000K					DIM.:			Instrument No.: HUP-IES2		
MFR.: CALEX					SUR.: 0.553*0.553			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	15.5	16.8	15.8	17.0	17.2	15.6	16.9	15.8	17.1	17.3
3H	16.5	17.7	16.7	17.9	18.2	16.5	17.8	16.8	18.0	18.2
4H	17.1	18.3	17.4	18.5	18.8	17.1	18.2	17.4	18.5	18.7
6H	17.7	18.8	18.1	19.1	19.4	17.6	18.7	18.0	19.0	19.3
8H	18.0	19.0	18.3	19.3	19.6	17.8	18.9	18.2	19.2	19.5
12H	18.1	19.2	18.5	19.4	19.7	18.0	19.0	18.3	19.3	19.6
4H 2H	15.8	17.0	16.1	17.2	17.5	15.9	17.1	16.2	17.3	17.6
3H	17.0	18.1	17.4	18.4	18.6	17.2	18.2	17.5	18.5	18.8
4H	17.9	18.8	18.2	19.1	19.4	17.9	18.9	18.3	19.2	19.5
6H	18.7	19.5	19.1	19.8	20.2	18.7	19.5	19.1	19.8	20.2
8H	19.0	19.8	19.4	20.1	20.5	18.9	19.7	19.4	20.1	20.5
12H	19.2	19.9	19.6	20.3	20.7	19.2	19.9	19.6	20.3	20.7
8H 4H	18.2	18.9	18.6	19.3	19.7	18.2	19.0	18.6	19.4	19.7
6H	19.2	19.8	19.6	20.2	20.6	19.2	19.8	19.6	20.2	20.6
8H	19.6	20.2	20.1	20.6	21.0	19.5	20.1	20.0	20.5	21.0
12H	19.9	20.4	20.4	20.9	21.3	19.9	20.4	20.3	20.8	21.3
12H 4H	18.2	18.9	18.6	19.3	19.7	18.3	19.0	18.7	19.4	19.8
6H	19.3	19.8	19.7	20.3	20.7	19.3	19.8	19.7	20.3	20.7
8H	19.8	20.2	20.2	20.7	21.2	19.7	20.2	20.2	20.6	21.1
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.4 / - 0.5					+ 0.3 / - 0.3				
1.5H	+ 0.3 / - 0.5					+ 0.3 / - 0.3				
2.0H	+ 0.7 / - 0.6					+ 0.6 / - 0.3				

CIE Pub.117, 4031 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 4.8)  
Area: 0.3058 m2

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:LiXiaoFei  
Test Date:2025-08-23

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
Humidity:65.0%  
Test Distance:9.550m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

Test:U:230.75V I:0.1583A P:35.384W PF:0.9685 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:4031.23x1 lm		
NameAA: Calex lgnis STP120 595x595mm UGR<19 20/25/30/Type:LOW 3000 WH		Weight:
SPEC.: 3000K	DIM.:	Instrument No.: HUP-IES2
MFR.: CALEX	SUR.: 0.553*0.553	shielding angle:

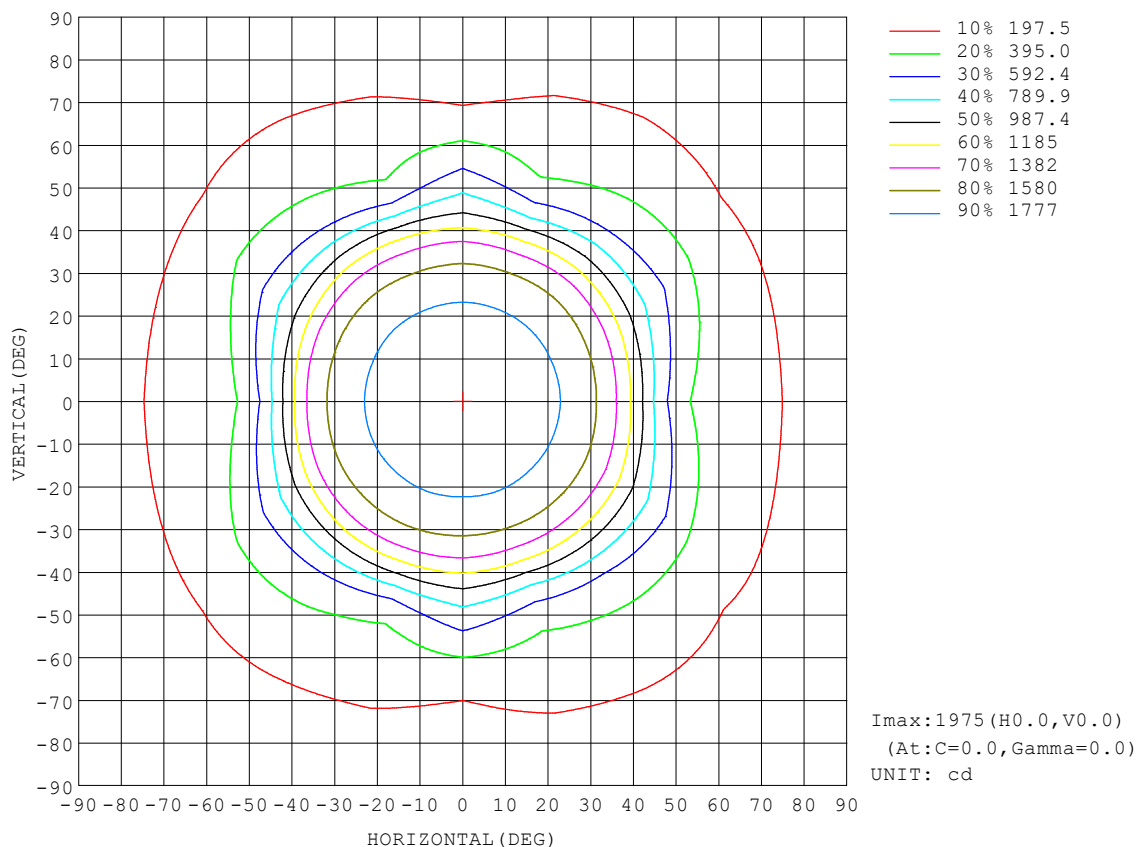
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	67	57	51	66	57	51	65	56	51	45
0.80	76	66	60	75	66	60	74	65	60	54
1.00	84	74	68	83	74	68	81	75	67	61
1.25	90	81	75	89	80	75	86	79	74	68
1.50	94	86	80	93	85	80	90	83	79	72
2.00	100	92	87	98	91	86	95	89	85	78
2.50	103	96	91	101	95	90	97	92	88	81
3.00	105	100	95	103	98	94	99	95	92	84
4.00	109	104	100	106	102	99	102	99	96	88
5.00	111	106	103	108	105	102	104	101	98	90
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:LiXiaoFei  
Test Date:2025-08-23

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
Humidity:65.0%  
Test Distance:9.550m [K=1.0000]  
Remarks:

## ISOCANDELA DIAGRAM

Test:U:230.75V I:0.1583A P:35.384W PF:0.9685 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:4031.23x1 lm		
NameAA: Calex Ignis STP120 595x595mm UGR<19 20/25/30/35/40/50/60/70/80/90 WH	Weight:	
SPEC.: 3000K	DIM.:	Instrument No.: HUP-IES2
MFR.: CALEX	SUR.: 0.553*0.553	shielding angle:

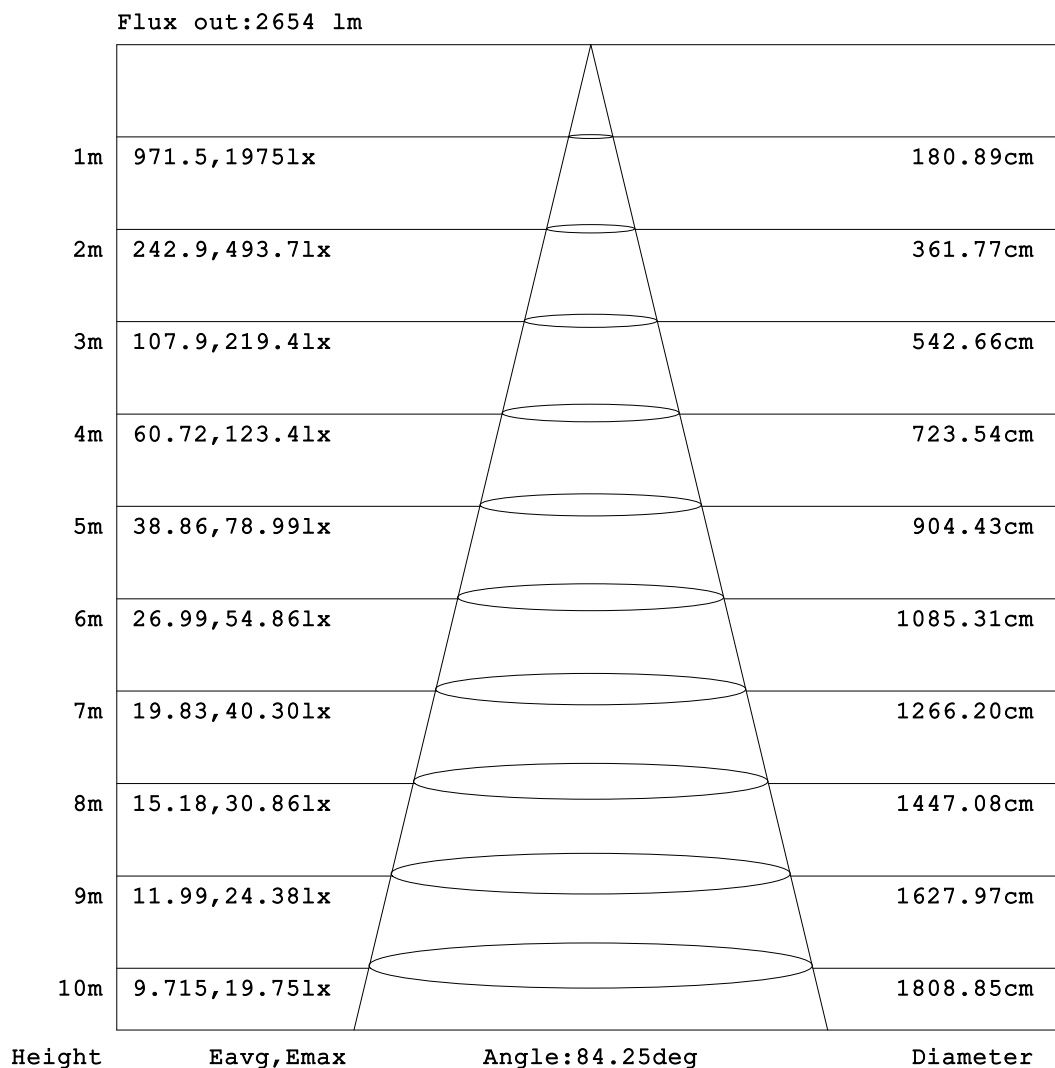


C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:LiXiaoFei  
Test Date:2025-08-23

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
Humidity:65.0%  
Test Distance:9.550m [K=1.0000]  
Remarks:

### AAI Figure

Test:U:230.75V I:0.1583A P:35.384W PF:0.9685 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:4031.23x1 lm		
NameAA: Calex Ignis STP120 595x595mm UGR<19 20/25/30/35/40W 300T WH	Weight:	
SPEC.: 3000K	DIM.:	Instrument No.: HUP-IES2
MFR.: CALEX	SUR.: 0.553*0.553	shielding angle:



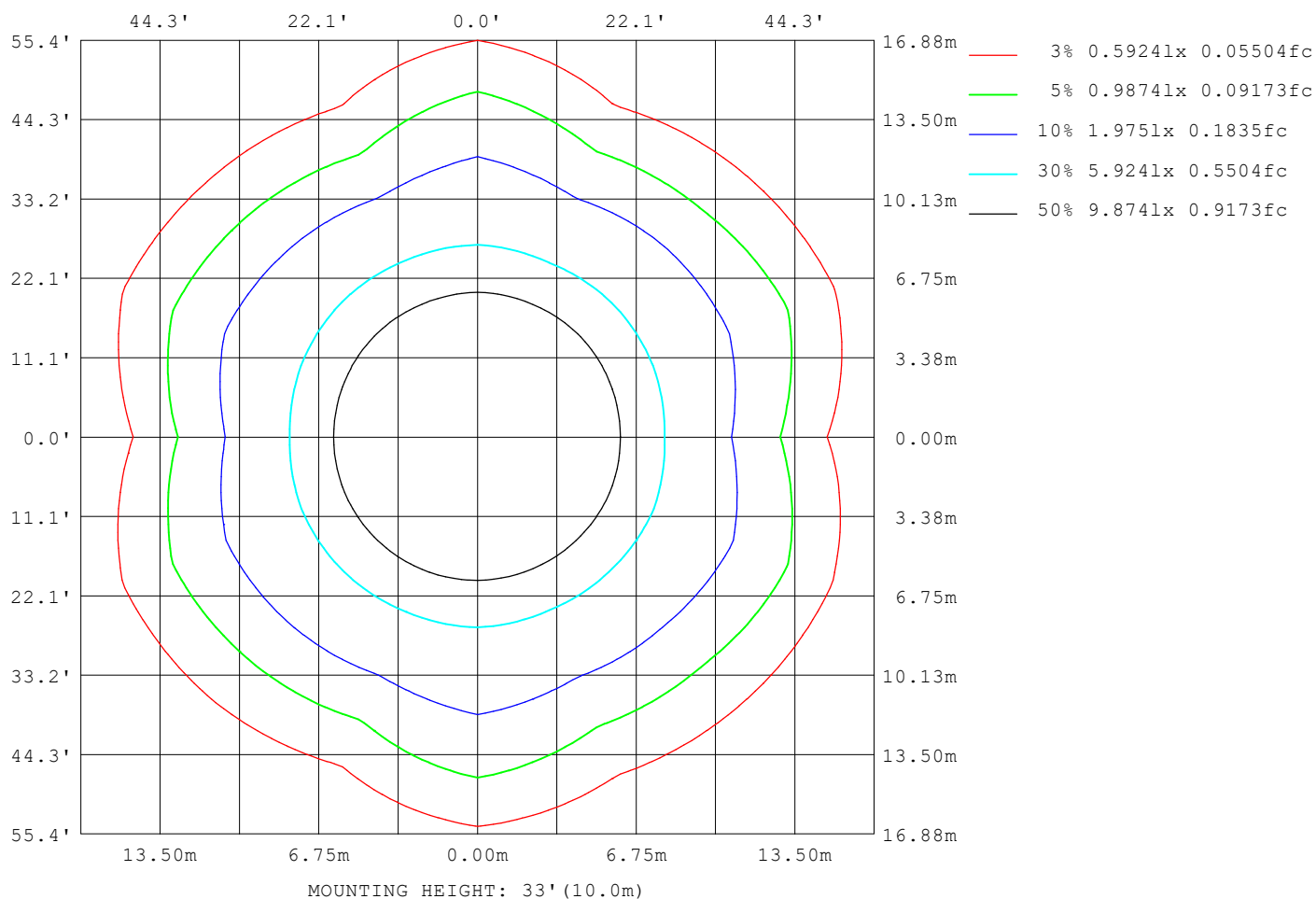
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3°C  
 Operators: LiXiaoFei  
 Test Date: 2025-08-23

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
 Humidity: 65.0%  
 Test Distance: 9.550m [K=1.0000]  
 Remarks:

## ISOLUX DIAGRAM

Test:U:230.75V I:0.1583A P:35.384W PF:0.9685 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:4031.23x1 lm		
NameAA: Calex Ignis STP120 595x595mm UGR<19 20/25/30/35/40W 300T WH	Weight:	
SPEC.: 3000K	DIM.:	Instrument No.: HUP-IES2
MFR.: CALEX	SUR.: 0.553*0.553	shielding angle:



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3°C  
Operators: LiXiaoFei  
Test Date: 2025-08-23

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
Humidity: 65.0%  
Test Distance: 9.550m [K=1.0000]  
Remarks:

### LED Avg.L Report

Test:U:230.75V I:0.1583A P:35.384W PF:0.9685 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:4031.23x1 lm		
NameAA: Calex lgnis STP120 595x595mm UGR<19 20/25/30/Type:LOW 360T WH	Weight:	
SPEC.: 3000K	DIM.:	Instrument No.: HUP-IES2
MFR.: CALEX	SUR.: 0.553*0.553	shielding angle:

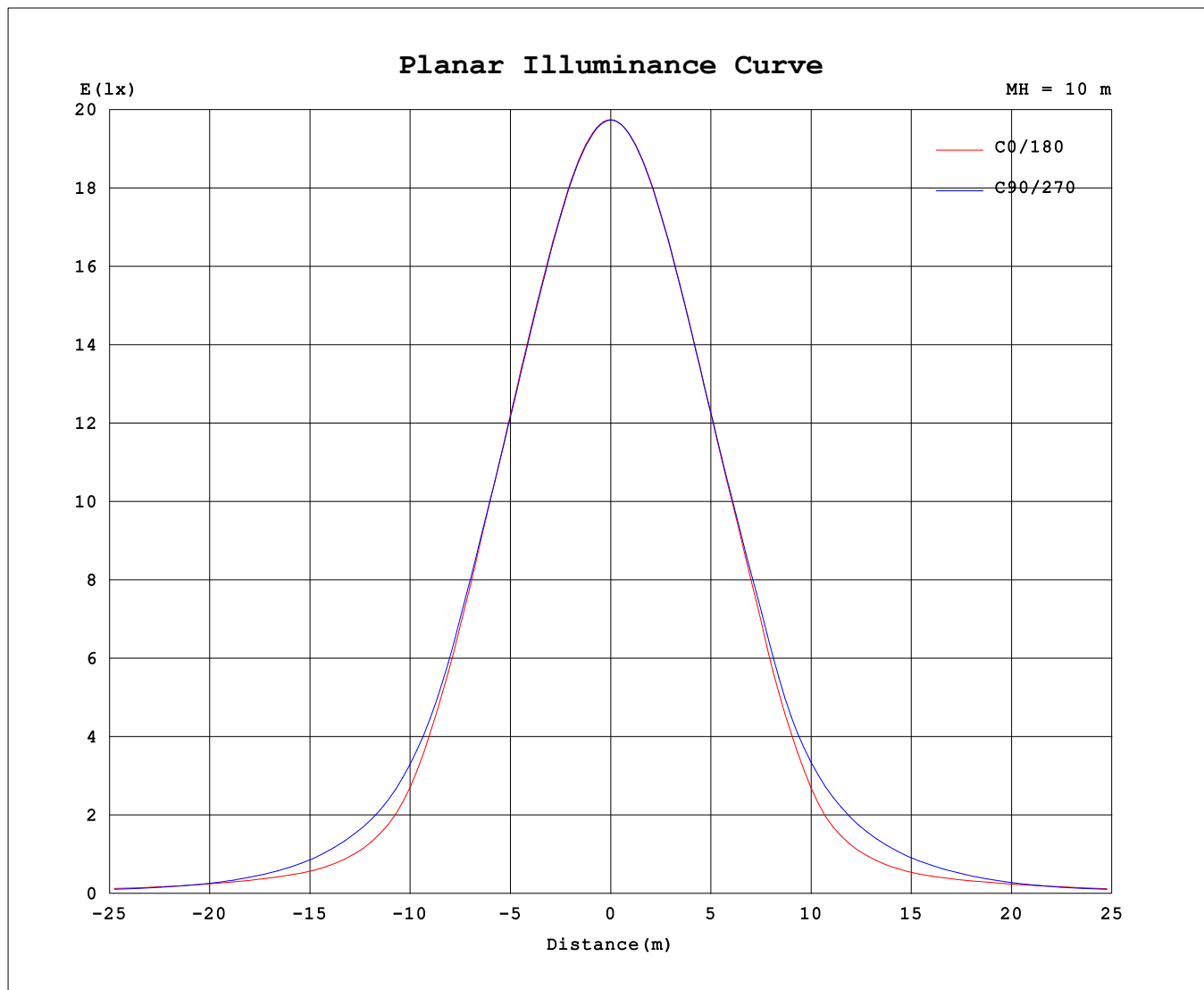
AvgL	cd/m2
L_0~180 (65) av	2093
L_0~180 (75) av	2472
L_0~180 (85) av	2253
L_90~270 (65) av	2068
L_90~270 (75) av	2106
L_90~270 (85) av	2168
L_45 (65) av	2216
L_45 (75) av	2175
L_45 (85) av	2487

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:LiXiaoFei  
Test Date:2025-08-23

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
Humidity:65.0%  
Test Distance:9.550m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3 °C  
Operators: LiXiaoFei  
Test Date: 2025-08-23

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
Humidity: 65.0%  
Test Distance: 9.550m [K=1.0000]  
Remarks:

<b>Test:</b> U:230.75V I:0.1583A P:35.384W PF:0.9685 Freq:49.99Hz <b>UTHDi:</b> 0.00% <b>ITHDi:</b> 0.00% <b>KDisp:</b> 0 <b>Lamp Flux:</b> 4031.23x1 lm		
<b>Name</b> AA: Calex Ignis STP120 595x595mm UGR<19 20/25/30/35/40W 38W WH	<b>Weight:</b>	
<b>SPEC.:</b> 3000K	<b>DIM.:</b>	<b>Instrument No.:</b> HUP-IES2
<b>MFR.:</b> CALEX	<b>SUR.:</b> 0.553*0.553	<b>shielding angle:</b>

UNIT: cd

[illegible]

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:9.550m [K=1.0000]
Remarks:

```