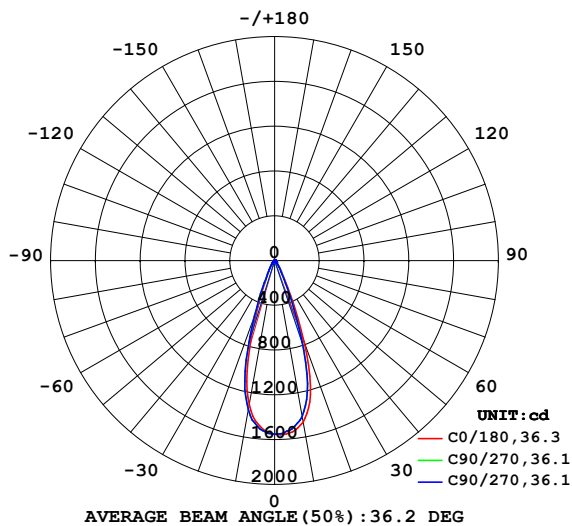


## LUMINAIRE PHOTOMETRIC TEST REPORT

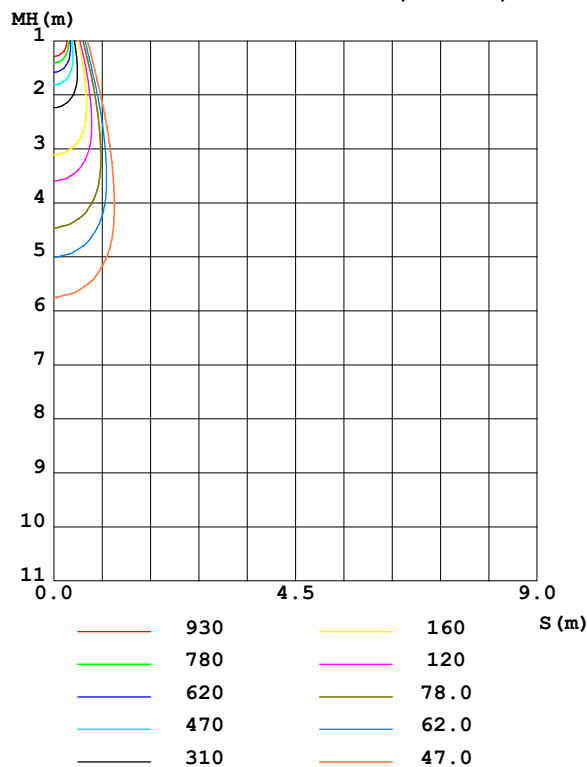
Test:U:230.24V I:0.0396A P:8.0784W PF:0.8838 Freq:49.99Hz		
UTHDi:0.15% ITHDi:18.71% KDisp:0.8980		Lamp Flux:647.91lx1 lm
NAME: Calex Solux DLU72 8W 2CT Triac Dim 40D WH	TYPE: 8W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.: CALEX	SUR.: 0.00138	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 80.20 lm/W
MODEL	74002000100	I <sub>max</sub> (cd)	1556	S/MH(C0/180)	0.51	
NOMINAL POWER(W)	8	LOR(%)	100.0	S/MH(C90/270)	0.57	
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	647.91	η UP,DN(C0-180)	0.4,44.9	
NOMINAL FLUX(lm)	647.911	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.4,54.3	
LAMPS INSIDE	1	η up (%)	0.8	CIBSE SHR NOM	0.50	
TEST VOLTAGE(V)	230	η down (%)	99.2	CIBSE SHR MAX	0.55	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3℃  
 Operators:  
 Test Date:2023-10-12

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.446  
 Humidity:65.0%  
 Test Distance:8.690m [K=1.0000]  
 Remarks:

## ZONAL FLUX DIAGRAM

### ZONAL FLUX DIAGRAM:

$\gamma$	C0	C90	C180	C270					$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	1308	1355	1466	1415					0- 10	140.7	140.7	21.7,21.7
20	448.5	528.3	774.4	640.6					10- 20	284.0	424.8	65.6,65.6
30	97.73	106.3	139.7	124.2					20- 30	127.8	552.6	85.3,85.3
40	37.68	40.57	43.85	38.97					30- 40	42.67	595.2	91.9,91.9
50	19.66	22.32	22.01	18.22					40- 50	22.26	617.5	95.3,95.3
60	10.85	11.33	12.41	11.58					50- 60	13.83	631.3	97.4,97.4
70	4.105	4.852	6.342	5.655					60- 70	8.480	639.8	98.7,98.7
80	0.4722	0.6314	1.174	0.8814					70- 80	2.723	642.5	99.2,99.2
90	0.0233	0.0234	0.0349	0.0408					80- 90	0.2531	642.8	99.2,99.2
100	0.0233	0.0524	0.0640	0.0350					90-100	0.0382	642.8	99.2,99.2
110	0.0233	0.0758	0.1105	0.0579					100-110	0.0528	642.9	99.2,99.2
120	0.0813	0.1226	0.1922	0.1568					110-120	0.0950	642.9	99.2,99.2
130	0.2905	0.3103	0.5075	0.5064					120-130	0.2120	643.2	99.3,99.3
140	1.081	0.9948	1.443	1.515					130-140	0.5886	643.7	99.4,99.4
150	2.401	2.278	2.822	2.925					140-150	1.184	644.9	99.5,99.5
160	3.528	3.530	4.019	4.042					150-160	1.489	646.4	99.8,99.8
170	3.820	3.844	4.035	4.090					160-170	1.115	647.5	99.9,99.9
180	3.861	3.920	3.901	3.914					170-180	0.3735	647.9	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 607.72 lm

%lum = 93.8%

%lamp = 93.8%

Conical surface Flux(120deg): 631.31 lm

%lum = 97.4%

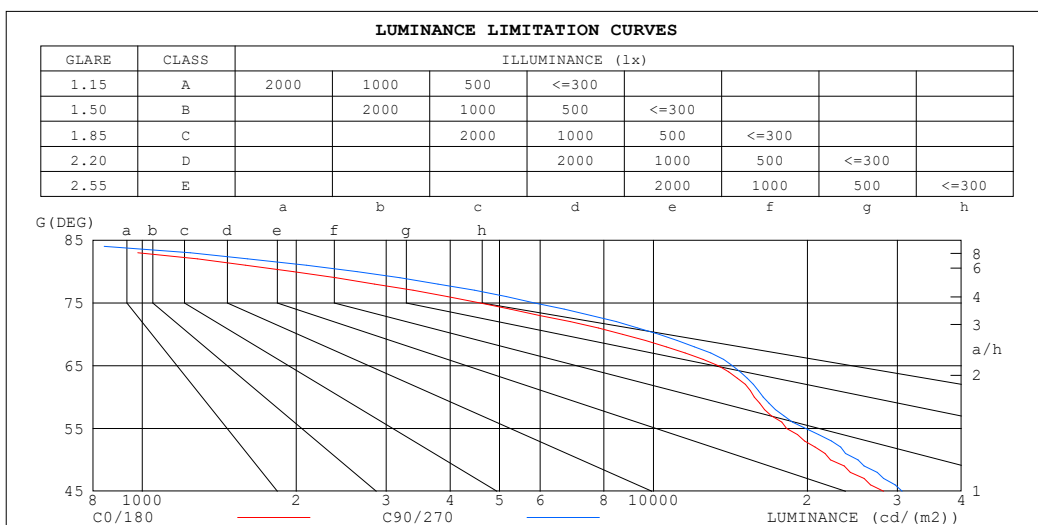
%lamp = 97.4%

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3℃  
 Operators:  
 Test Date:2023-10-12

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.446  
 Humidity:65.0%  
 Test Distance:8.690m [K=1.0000]  
 Remarks:

## LUMINANCE LIMITATION CURVES

Test:U:230.24V I:0.0396A P:8.0784W PF:0.8838 Freq:49.99Hz		
UTHDi:0.15% ITHDi:18.71% KDisp:0.8980 Lamp Flux:647.91lx1 lm		
NAME: Calex Solux DLU72 8W 2CT Triac Dim 40D WH	TYPE: 8W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.: CALEX	SUR.: 0.00138	Shielding Angle:



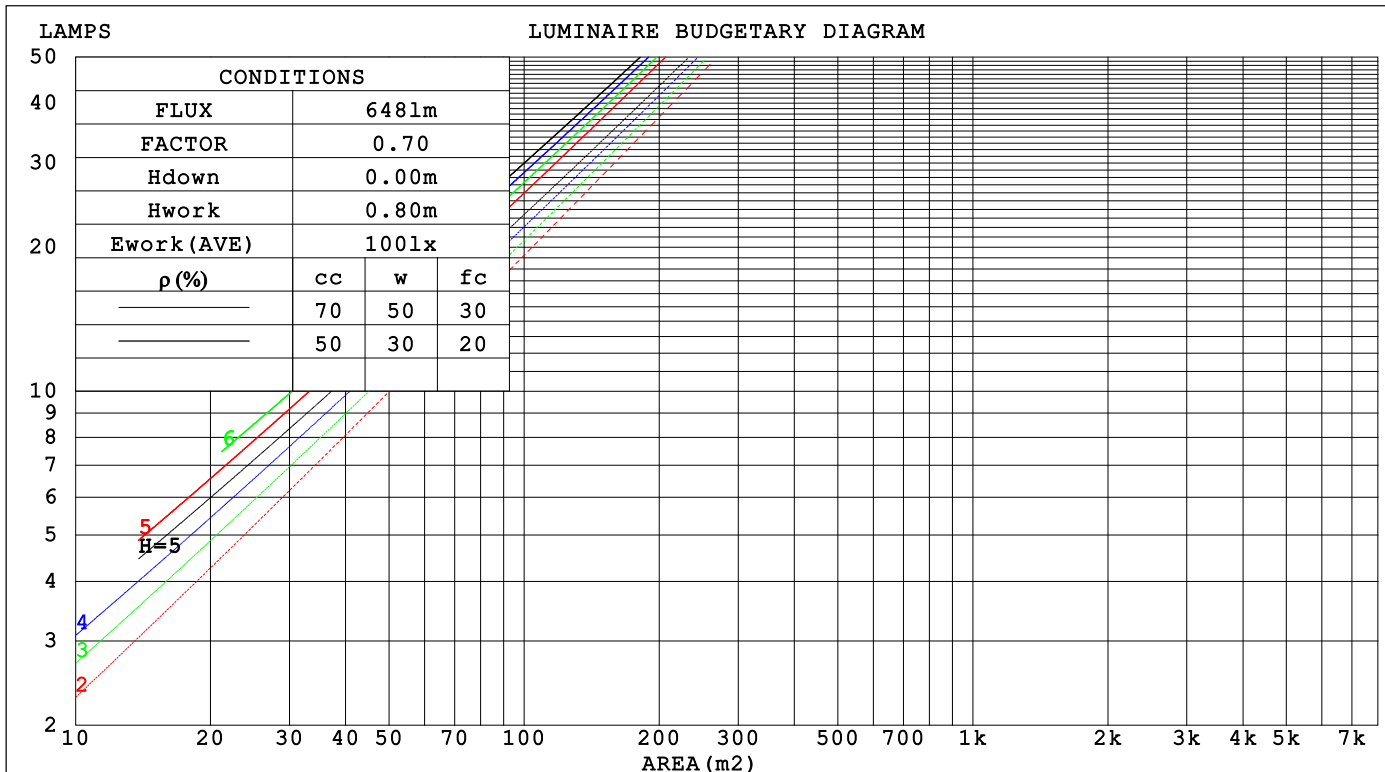
C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3°C  
Operators:  
Test Date: 2023-10-12

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.446  
Humidity: 65.0%  
Test Distance: 8.690m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.24V I:0.0396A P:8.0784W PF:0.8838 Freq:49.99Hz		
UTHDi:0.15% ITHDi:18.71% KDisp:0.8980		Lamp Flux:647.91lx1 lm
NAME: Calex Solux DLU72 8W 2CT Triac Dim 40D WH	TYPE: 8W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.: CALEX	SUR.: 0.00138	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: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:  
Test Date:2023-10-12

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.446  
Humidity:65.0%  
Test Distance:8.690m [K=1.0000]  
Remarks:

### WEC AND CCEC

Test:U:230.24V I:0.0396A P:8.0784W PF:0.8838 Freq:49.99Hz			UTHDi:0.15% ITHDi:18.71% KDisp:0.8980			Lamp Flux:647.91lx1 lm		
NAME: Calex Solux DLU72 8W 2CT Triac Dim 40D WH			TYPE: 8W			WEIGHT:		
SPEC.: 5000K			DIM.:			SERIAL No.:		
MFR.: CALEX			SUR.: 0.00138			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	.161	.092	.029	.154	.088	.028	.141	.081	.026	.129	.075	.024	.118	.069	.022		
2.0	.152	.083	.026	.146	.080	.025	.135	.075	.023	.125	.070	.022	.116	.066	.021		
3.0	.143	.076	.023	.138	.074	.022	.128	.070	.021	.120	.066	.020	.112	.062	.019		
4.0	.134	.070	.020	.130	.068	.020	.122	.065	.019	.115	.062	.019	.108	.059	.018		
5.0	.127	.065	.019	.123	.063	.018	.116	.061	.018	.110	.058	.017	.104	.056	.017		
6.0	.120	.060	.017	.117	.059	.017	.111	.057	.017	.105	.055	.016	.100	.053	.016		
7.0	.114	.056	.016	.111	.055	.016	.106	.054	.015	.101	.052	.015	.096	.050	.015		
8.0	.109	.053	.015	.106	.052	.015	.101	.051	.014	.097	.049	.014	.093	.048	.014		
9.0	.104	.050	.014	.102	.049	.014	.097	.048	.014	.093	.047	.013	.090	.046	.013		
10.0	.099	.048	.013	.097	.047	.013	.094	.046	.013	.090	.045	.013	.087	.044	.013		

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	.168	.168	.168	.115	.115	.115	.066	.066	.066	.021	.021	.021		
1.0	.176	.164	.152	.151	.140	.131	.103	.097	.091	.059	.056	.053	.019	.018	.017		
2.0	.160	.139	.121	.137	.119	.105	.094	.083	.073	.054	.048	.043	.017	.016	.014		
3.0	.146	.120	.099	.125	.103	.085	.086	.072	.060	.050	.042	.035	.016	.014	.012		
4.0	.135	.105	.082	.116	.090	.071	.079	.063	.050	.046	.037	.030	.015	.012	.010		
5.0	.125	.093	.069	.107	.080	.060	.074	.056	.042	.043	.033	.025	.014	.011	.008		
6.0	.117	.083	.059	.100	.072	.051	.069	.050	.036	.040	.030	.022	.013	.010	.007		
7.0	.110	.075	.051	.094	.065	.044	.065	.046	.032	.038	.027	.019	.012	.009	.006		
8.0	.103	.069	.045	.089	.060	.039	.062	.042	.028	.036	.025	.017	.012	.008	.005		
9.0	.098	.063	.040	.084	.055	.035	.058	.039	.025	.034	.023	.015	.011	.007	.005		
10.0	.093	.059	.036	.080	.051	.031	.056	.036	.022	.032	.021	.013	.011	.007	.004		

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:  
Test Date:2023-10-12

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.446  
Humidity:65.0%  
Test Distance:8.690m [K=1.0000]  
Remarks:

### UGR(Unified Glare Rating) Table

Test:U:230.24V I:0.0396A P:8.0784W PF:0.8838 Freq:49.99Hz UTHDi:0.15% ITHDi:18.71% KDisp:0.8980 Lamp Flux:647.91lx1 lm										
NAME: Calex Solux DLU72 8W 2CT Triac Dim 40D WH					TYPE: 8W			WEIGHT:		
SPEC.: 5000K					DIM.:			SERIAL No.:		
MFR.: CALEX					SUR.: 0.00138			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	17.1	17.9	17.3	18.0	18.2	17.4	18.2	17.6	18.3	18.5
3H	17.5	18.3	17.8	18.5	18.7	17.9	18.6	18.1	18.8	19.0
4H	17.5	18.2	17.8	18.5	18.7	17.9	18.6	18.2	18.8	19.1
6H	17.5	18.1	17.8	18.4	18.6	17.9	18.5	18.2	18.8	19.0
8H	17.4	18.1	17.7	18.3	18.6	17.8	18.5	18.1	18.7	19.0
12H	17.4	18.0	17.7	18.3	18.5	17.8	18.4	18.1	18.7	18.9
4H 2H	17.3	18.0	17.6	18.3	18.5	17.6	18.3	17.9	18.5	18.7
3H	17.8	18.4	18.2	18.7	19.0	18.2	18.8	18.5	19.0	19.3
4H	17.9	18.4	18.2	18.7	19.0	18.2	18.8	18.6	19.1	19.4
6H	17.8	18.3	18.2	18.6	19.0	18.2	18.7	18.5	19.0	19.4
8H	17.7	18.2	18.1	18.6	18.9	18.1	18.6	18.5	18.9	19.3
12H	17.7	18.1	18.1	18.5	18.9	18.1	18.5	18.5	18.9	19.3
8H 4H	17.8	18.2	18.2	18.6	19.0	18.1	18.6	18.5	19.0	19.3
6H	17.7	18.1	18.2	18.5	18.9	18.1	18.5	18.5	18.9	19.3
8H	17.7	18.0	18.1	18.4	18.9	18.0	18.4	18.5	18.8	19.3
12H	17.6	17.9	18.1	18.4	18.8	18.0	18.3	18.5	18.7	19.2
12H 4H	17.7	18.2	18.2	18.5	18.9	18.1	18.5	18.5	18.9	19.3
6H	17.7	18.0	18.1	18.4	18.9	18.0	18.4	18.5	18.8	19.3
8H	17.6	17.9	18.1	18.4	18.8	18.0	18.3	18.5	18.7	19.2
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.9 / - 1.3					+ 0.9 / - 1.2				
1.5H	+ 0.9 / - 0.8					+ 1.1 / - 0.9				
2.0H	+ 1.5 / - 1.0					+ 1.7 / - 1.1				

CIE Pub.117, 647.9 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -1.5)  
Area: 0.00138 m2

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:  
Test Date:2023-10-12

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.446  
Humidity:65.0%  
Test Distance:8.690m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

Test:U:230.24V I:0.0396A P:8.0784W PF:0.8838 Freq:49.99Hz		
UTHDi:0.15% ITHDi:18.71% KDisp:0.8980 Lamp Flux:647.91lx1 lm		
NAME: Calex Solux DLU72 8W 2CT Triac Dim 40D WH	TYPE: 8W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.: CALEX	SUR.: 0.00138	Shielding Angle:

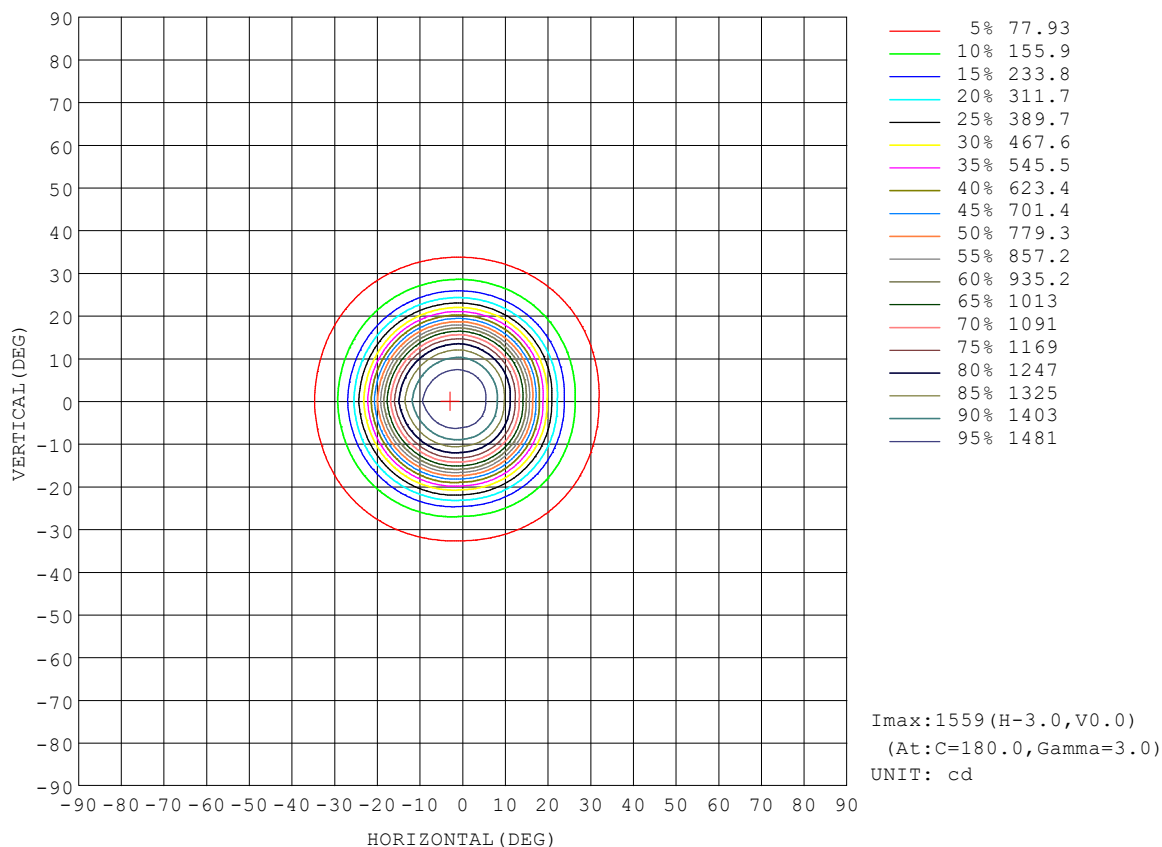
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	87	80	76	86	80	76	85	79	76	72
0.80	94	88	84	93	88	84	92	87	84	80
1.00	98	93	89	97	92	89	96	92	88	84
1.25	102	97	94	101	96	93	99	95	92	88
1.50	105	100	97	104	100	96	102	98	95	90
2.00	108	104	100	106	103	100	104	100	98	93
2.50	110	106	103	108	105	102	105	102	100	94
3.00	111	108	105	109	106	104	106	104	102	95
4.00	113	111	108	111	109	107	108	106	104	97
5.00	115	112	111	113	111	109	108	107	106	98
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3 °C  
Operators:  
Test Date: 2023-10-12

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.446  
Humidity: 65.0%  
Test Distance: 8.690m [K=1.0000]  
Remarks:

# ISOCANDELA DIAGRAM

Test:U:230.24V I:0.0396A P:8.0784W PF:0.8838 Freq:49.99Hz		
UTHDi:0.15% ITHDi:18.71% KDisp:0.8980 Lamp Flux:647.91lx1 lm		
NAME: Calex Solux DLU72 8W 2CT Triac Dim 40D WH	TYPE: 8W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.: CALEX	SUR.: 0.00138	Shielding Angle:



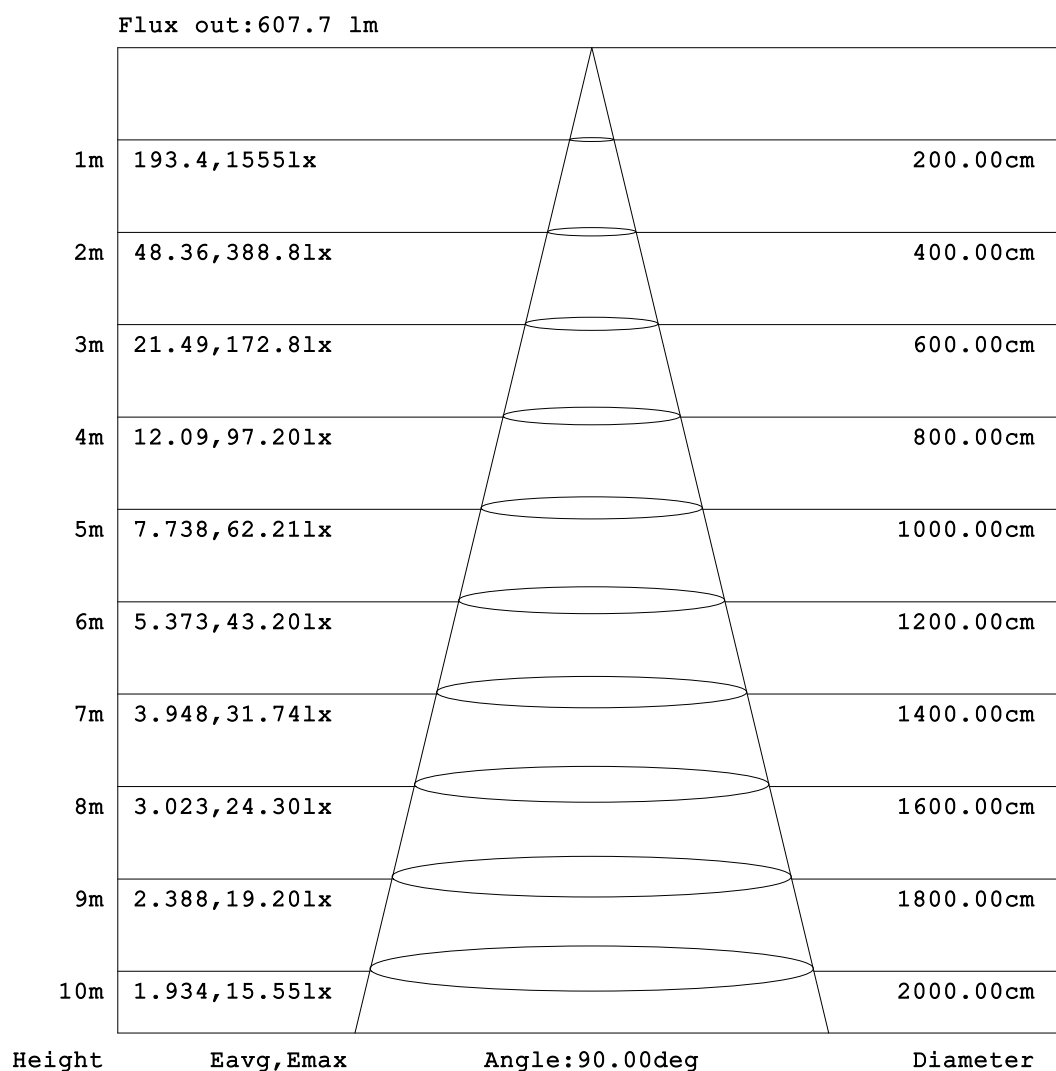
C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:  
Test Date:2023-10-12

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.446  
Humidity:65.0%  
Test Distance:8.690m [K=1.0000]  
Remarks:



### AAI Figure

Test:U:230.24V I:0.0396A P:8.0784W PF:0.8838 Freq:49.99Hz		
UTHDi:0.15% ITHDi:18.71% KDisp:0.8980 Lamp Flux:647.91lx1 lm		
NAME: Calex Solux DLU72 8W 2CT Triac Dim 40D WH	TYPE: 8W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.: CALEX	SUR.: 0.00138	Shielding Angle:



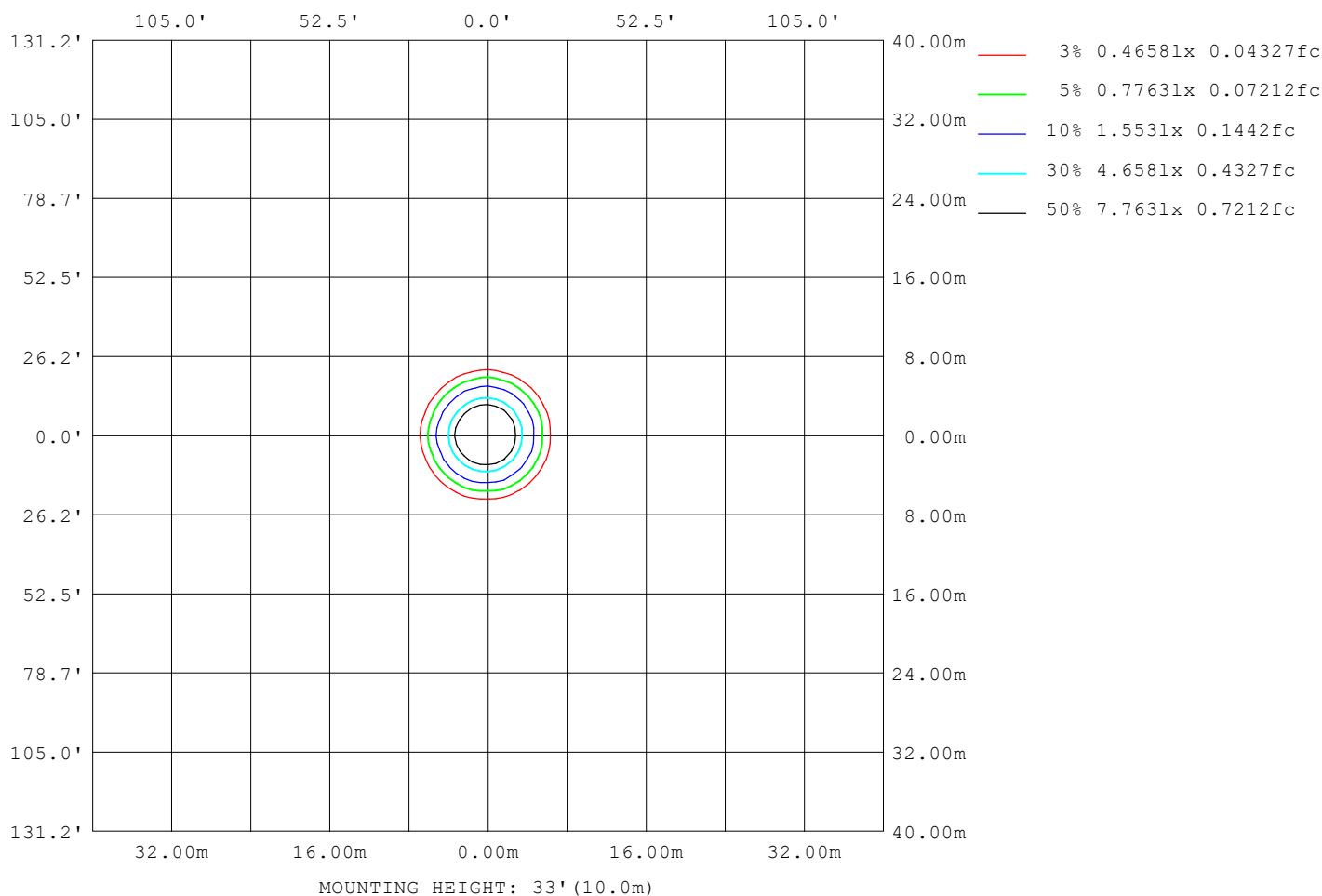
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:  
Test Date:2023-10-12

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.446  
Humidity:65.0%  
Test Distance:8.690m [K=1.0000]  
Remarks:

# ISOLUX DIAGRAM

Test:U:230.24V I:0.0396A P:8.0784W PF:0.8838 Freq:49.99Hz		
UTHDi:0.15% ITHDi:18.71% KDisp:0.8980 Lamp Flux:647.91lx1 lm		
NAME: Calex Solux DLU72 8W 2CT Triac Dim 40D WH	TYPE: 8W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.: CALEX	SUR.: 0.00138	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:  
Test Date:2023-10-12

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.446  
Humidity:65.0%  
Test Distance:8.690m [K=1.0000]  
Remarks:

### LED Avg.L Report

Test:U:230.24V I:0.0396A P:8.0784W PF:0.8838 Freq:49.99Hz UTHDi:0.15% ITHDi:18.71% KDisp:0.8980 Lamp Flux:647.91lx1 lm		
NAME: Calex Solux DLU72 8W 2CT Triac Dim 40D WH	TYPE: 8W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.: CALEX	SUR.: 0.00138	Shielding Angle:

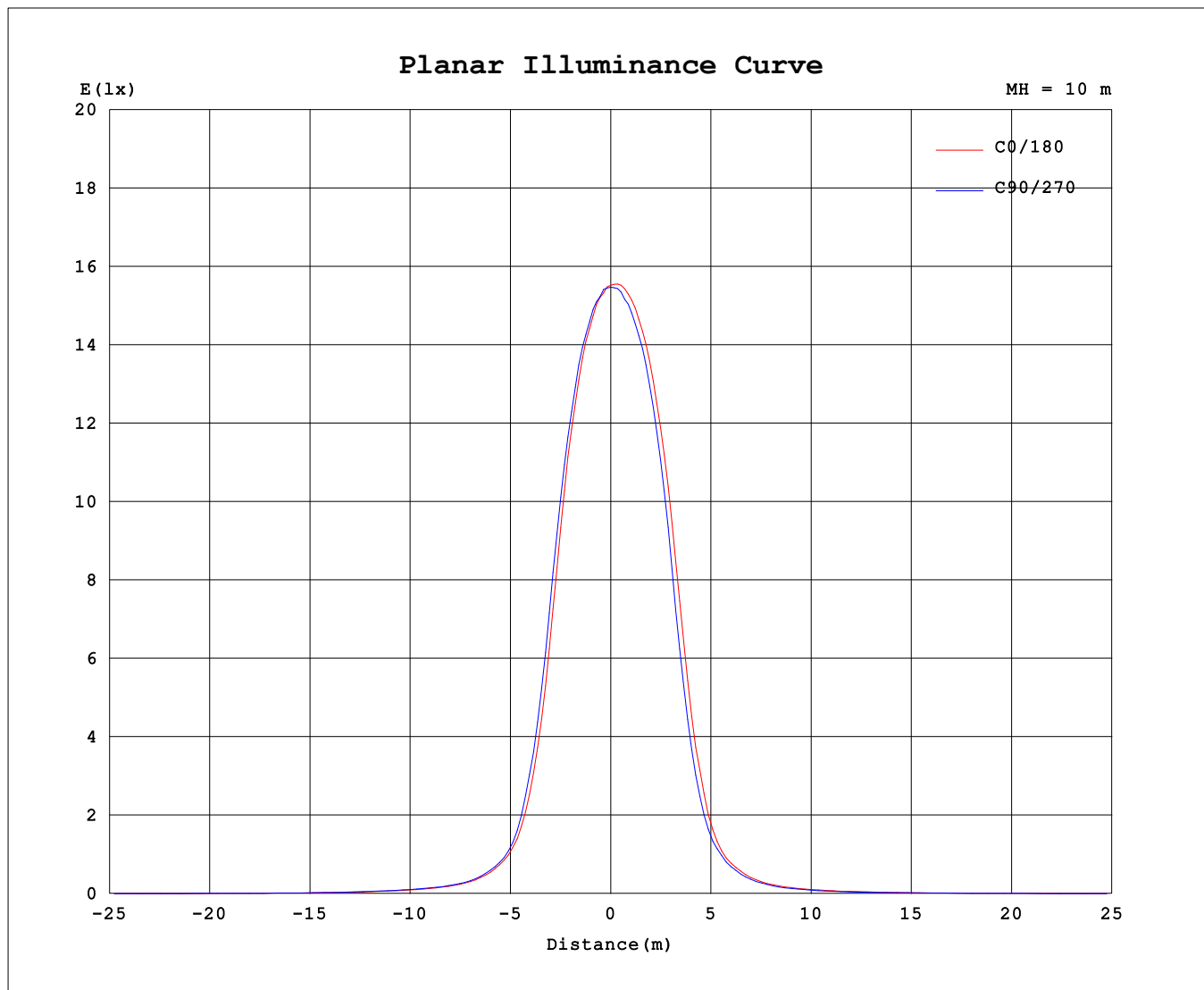
AvgL	cd/m2
L_0~180 (65) av	15033
L_0~180 (75) av	6746
L_0~180 (85) av	1209
L_90~270 (65) av	14847
L_90~270 (75) av	6486
L_90~270 (85) av	1050
L_45 (65) av	15020
L_45 (75) av	6719
L_45 (85) av	1164

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:  
Test Date:2023-10-12

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.446  
Humidity:65.0%  
Test Distance:8.690m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3 °C  
Operators:  
Test Date: 2023-10-12

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.446  
Humidity: 65.0%  
Test Distance: 8.690m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.24V I:0.0396A P:8.0784W PF:0.8838 Freq:49.99Hz		
UTHDi:0.15% ITHDi:18.71% KDisp:0.8980 Lamp Flux:647.91lx1 lm		
NAME: Calex Solux DLU72 8W 2CT Triac Dim 40D WH	TYPE: 8W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.: CALEX	SUR.: 0.00138	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270														
0	1550	1550	1550	1550														
5	1488	1510	1545	1524														
10	1308	1355	1466	1415														
15	921	1022	1241	1141														
20	449	528	774	641														
25	189	217	344	271														
30	97.7	106	140	124														
35	56.0	60.8	74.8	67.5														
40	37.7	40.6	43.8	39.0														
45	27.5	30.0	30.2	25.9														
50	19.7	22.3	22.0	18.2														
55	14.4	15.8	16.4	14.2														
60	10.9	11.3	12.4	11.6														
65	7.80	8.35	9.73	8.97														
70	4.10	4.85	6.34	5.66														
75	1.64	2.09	3.18	2.54														
80	0.47	0.63	1.17	0.88														
85	0.04	0.06	0.25	0.19														
90	0.02	0.02	0.03	0.04														
95	0.02	0.04	0.05	0.04														
100	0.02	0.05	0.06	0.04														
105	0.02	0.05	0.08	0.04														
110	0.02	0.08	0.11	0.06														
115	0.04	0.09	0.15	0.09														
120	0.08	0.12	0.19	0.16														
125	0.16	0.19	0.30	0.27														
130	0.29	0.31	0.51	0.51														
135	0.59	0.56	0.89	0.93														
140	1.08	0.99	1.44	1.52														
145	1.72	1.60	2.09	2.20														
150	2.40	2.28	2.82	2.92														
155	3.05	2.98	3.51	3.60														
160	3.53	3.53	4.02	4.04														
165	3.78	3.81	4.16	4.17														
170	3.82	3.84	4.03	4.09														
175	3.82	3.89	3.93	3.93														
180	3.86	3.92	3.90	3.91														

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:  
Test Date:2023-10-12

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.446  
Humidity:65.0%  
Test Distance:8.690m [K=1.0000]  
Remarks: