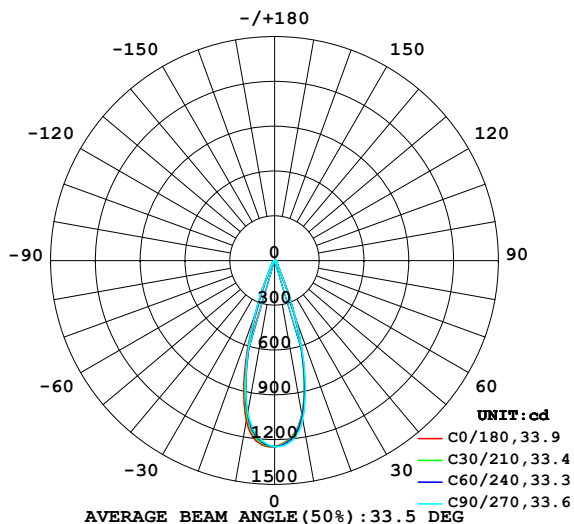


**LUMINAIRE PHOTOMETRIC TEST REPORT**

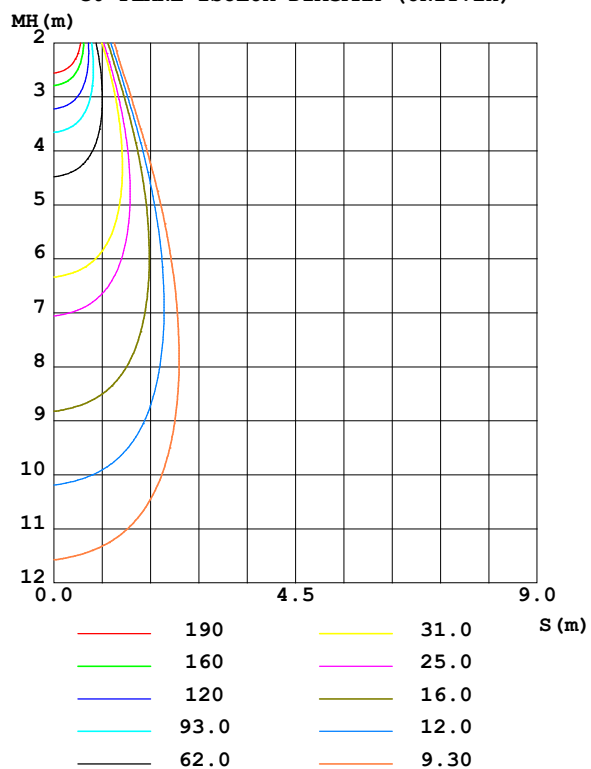
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 28	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 86.97 lm/W
MODEL	ALR35-5G30-F	I <sub>max</sub> (cd)	1249	S/MH (C0/180)	0.52	
NOMINAL POWER (W)	5	LOR (%)	100.0	S/MH (C90/270)	0.52	
RATED VOLTAGE (V)	226	TOTAL FLUX (lm)	437.44	η UP, DN (C0-180)	0.0, 50.9	
NOMINAL FLUX (lm)	437.439	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 49.1	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.50	
TEST VOLTAGE (V)	225.1	η down (%)	100.0	CIBSE SHR MAX	0.55	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: AE  
 Test Date: 2020-06-16

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity: 65.0%  
 Test Distance: 7.240m [K=1.0000]  
 Remarks:

### ZONAL FLUX DIAGRAM

#### ZONAL FLUX DIAGRAM:

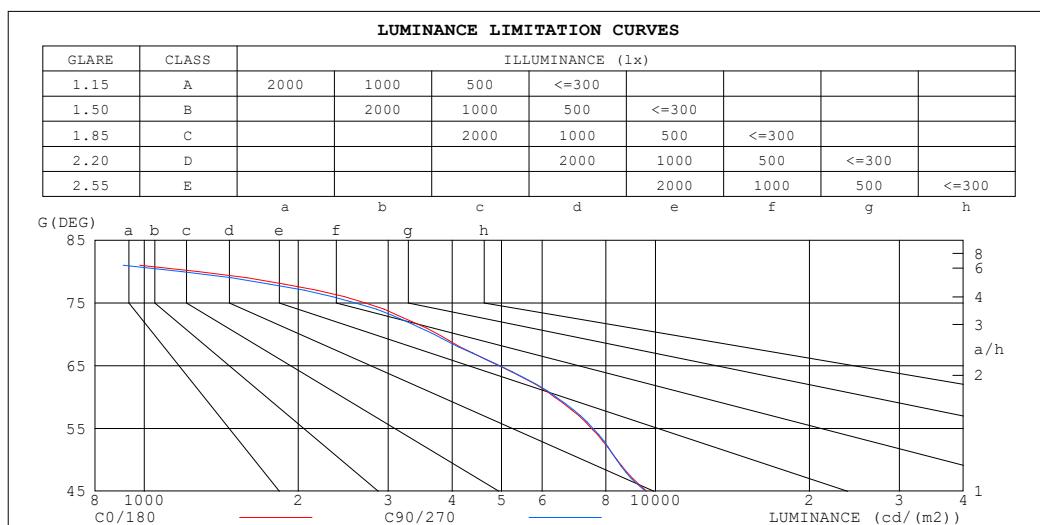
$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	1052	1063	1082	1108	1091	1044	1037	1045	0- 10	111.0	111.0	25.4,25.4
20	404.2	418.4	408.9	418.3	392.8	349.6	377.3	402.4	10- 20	202.8	313.8	71.7,71.7
30	52.57	55.30	54.00	55.79	55.06	54.71	54.89	52.40	20- 30	71.98	385.8	88.2,88.2
40	23.34	25.39	23.33	22.59	22.23	23.78	23.36	22.19	30- 40	22.16	407.9	93.3,93.3
50	13.31	14.08	13.29	12.95	12.80	13.65	13.33	12.62	40- 50	13.22	421.2	96.3,96.3
60	7.813	8.262	7.866	7.535	7.371	7.607	7.642	7.465	50- 60	9.370	430.5	98.4,98.4
70	3.166	3.233	3.106	2.933	2.885	2.898	3.068	3.052	60- 70	5.079	435.6	99.6,99.6
80	0.5461	0.5385	0.5067	0.4839	0.3542	0.3888	0.4322	0.5143	70- 80	1.745	437.4	100,100
90	0	0	0	0	0	0	0	0	80- 90	0.0737	437.4	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		

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:AE  
Test Date:2020-06-16

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.240m [K=1.0000]  
Remarks:

# LUMINANCE LIMITATION CURVES

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 28	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	0	0
80	1277	1186
75	2707	2591
70	3759	3690
65	4944	4959
60	6347	6392
55	7493	7551
50	8410	8400
45	9623	9562

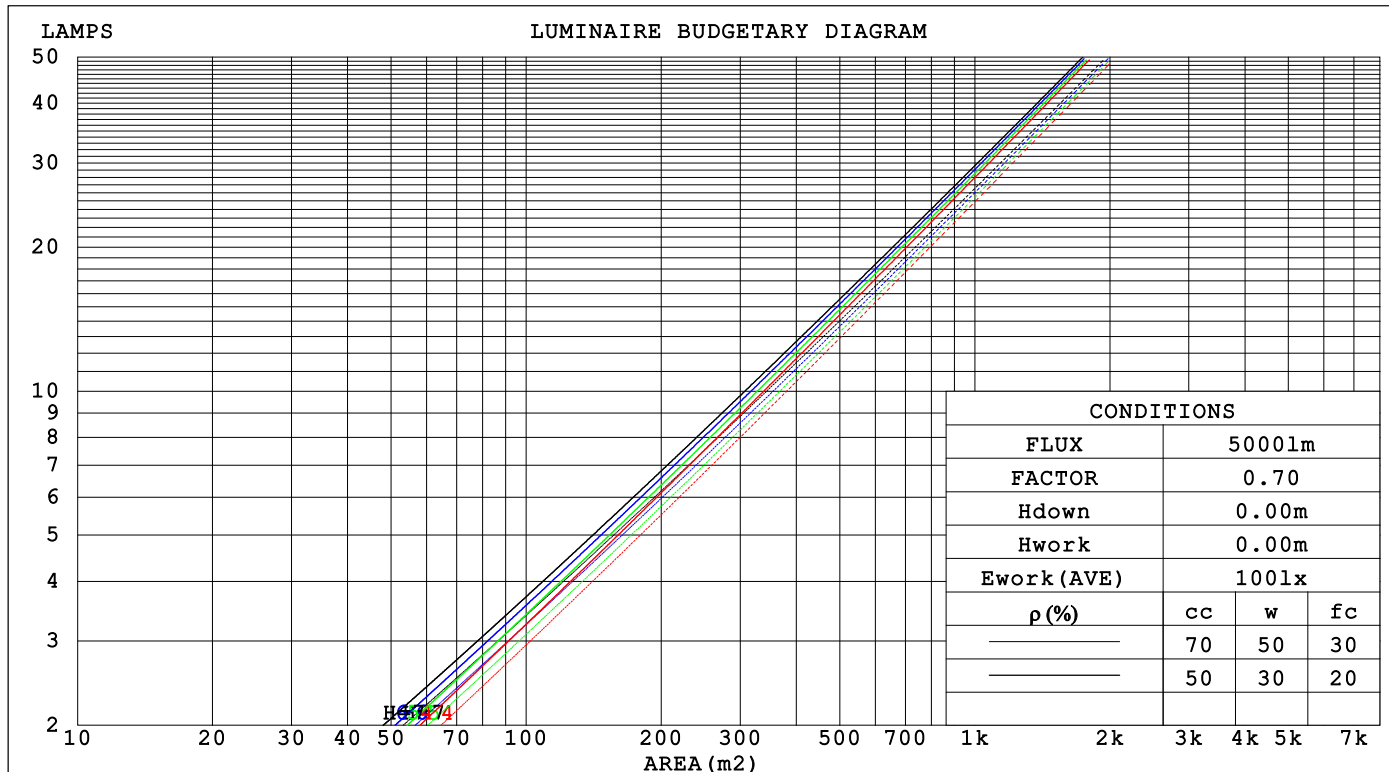
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:AE  
Test Date:2020-06-16

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.240m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 28	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
p <sub>w</sub>	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
p <sub>fc</sub>	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	1.02	1.02	1.02	1.00
1.0	1.12	1.10	1.08	1.10	1.08	1.06	1.06	1.04	1.03	1.02	1.01	.00	.99	.98	.97	.95
2.0	1.06	1.02	.99	1.04	1.01	.98	1.01	.98	.96	.98	.96	.94	.95	.94	.92	.91
3.0	1.00	.96	.93	.99	.95	.92	.96	.93	.91	.94	.91	.89	.92	.90	.88	.86
4.0	.95	.91	.87	.94	.90	.87	.92	.89	.86	.90	.87	.85	.89	.86	.84	.83
5.0	.91	.86	.83	.90	.86	.83	.89	.85	.82	.87	.84	.81	.86	.83	.81	.79
6.0	.87	.83	.79	.87	.82	.79	.85	.81	.78	.84	.81	.78	.83	.80	.77	.76
7.0	.84	.79	.76	.83	.79	.76	.82	.78	.75	.81	.78	.75	.80	.77	.74	.73
8.0	.81	.76	.73	.80	.76	.73	.79	.75	.72	.78	.75	.72	.78	.74	.72	.71
9.0	.78	.73	.70	.78	.73	.70	.77	.73	.70	.76	.72	.70	.75	.72	.69	.68
10.0	.75	.71	.68	.75	.71	.68	.74	.70	.67	.74	.70	.67	.73	.70	.67	.66



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:AE  
Test Date:2020-06-16

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.240m [K=1.0000]  
Remarks:

## WEC AND CCEC

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 28	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	.155 .088 .028	.148 .084 .027	.135 .078 .025	.124 .072 .023	.113 .066 .021	
2.0	.145 .080 .024	.140 .077 .024	.129 .072 .022	.120 .067 .021	.111 .063 .020	
3.0	.136 .072 .022	.131 .070 .021	.123 .066 .020	.115 .063 .019	.107 .059 .018	
4.0	.128 .066 .020	.124 .065 .019	.116 .062 .018	.110 .059 .018	.103 .056 .017	
5.0	.121 .061 .018	.117 .060 .018	.111 .058 .017	.105 .055 .016	.099 .053 .016	
6.0	.114 .057 .016	.111 .056 .016	.106 .054 .016	.100 .052 .015	.096 .050 .015	
7.0	.108 .054 .015	.106 .053 .015	.101 .051 .015	.096 .049 .014	.092 .048 .014	
8.0	.103 .050 .014	.101 .050 .014	.097 .048 .014	.093 .047 .014	.089 .046 .013	
9.0	.098 .048 .013	.096 .047 .013	.093 .046 .013	.089 .045 .013	.086 .044 .013	
10.0	.094 .045 .013	.092 .045 .012	.089 .044 .012	.086 .043 .012	.083 .042 .012	

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	.170 .158 .147	.145 .135 .126	.099 .093 .087	.057 .054 .051	.018 .017 .016	
2.0	.153 .133 .116	.131 .114 .100	.090 .079 .070	.052 .046 .041	.017 .015 .013	
3.0	.139 .113 .093	.119 .098 .081	.082 .068 .057	.047 .040 .033	.015 .013 .011	
4.0	.127 .098 .076	.109 .085 .066	.075 .059 .047	.043 .035 .028	.014 .011 .009	
5.0	.117 .086 .064	.100 .075 .055	.069 .052 .039	.040 .031 .023	.013 .010 .008	
6.0	.109 .076 .053	.093 .066 .047	.064 .046 .033	.037 .027 .020	.012 .009 .006	
7.0	.101 .068 .046	.087 .059 .040	.060 .042 .028	.035 .025 .017	.011 .008 .006	
8.0	.095 .062 .039	.082 .054 .034	.057 .038 .024	.033 .022 .014	.011 .007 .005	
9.0	.089 .056 .034	.077 .049 .030	.053 .034 .021	.031 .020 .013	.010 .007 .004	
10.0	.084 .052 .030	.073 .045 .026	.051 .032 .019	.029 .019 .011	.010 .006 .004	

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:AE  
Test Date:2020-06-16

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.240m [K=1.0000]  
Remarks:

### UGR(Unified Glare Rating) Table

NAME:	TYPE:					WEIGHT:				
SPEC.:	DIM.:					SERIAL No.:				
MFR.:	SUR.: 28					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	16.5	17.2	16.7	17.4	17.5	16.6	17.3	16.8	17.5	17.6
3H	17.0	17.7	17.2	17.9	18.1	17.1	17.8	17.3	18.0	18.2
4H	17.1	17.8	17.4	18.0	18.2	17.2	17.8	17.4	18.0	18.3
6H	17.1	17.7	17.4	18.0	18.2	17.1	17.8	17.4	18.0	18.3
8H	17.0	17.7	17.3	17.9	18.2	17.1	17.7	17.4	18.0	18.2
12H	17.0	17.6	17.3	17.8	18.1	17.1	17.6	17.4	17.9	18.2
4H 2H	16.8	17.4	17.0	17.7	17.9	16.9	17.5	17.1	17.7	18.0
3H	17.4	18.0	17.7	18.2	18.5	17.4	18.0	17.8	18.3	18.6
4H	17.5	18.1	17.9	18.4	18.7	17.6	18.1	17.9	18.4	18.7
6H	17.5	18.0	17.9	18.3	18.7	17.6	18.1	18.0	18.4	18.7
8H	17.5	17.9	17.9	18.3	18.6	17.5	18.0	17.9	18.3	18.7
12H	17.4	17.8	17.8	18.2	18.6	17.5	17.9	17.9	18.3	18.6
8H 4H	17.5	18.0	17.9	18.3	18.7	17.6	18.0	17.9	18.4	18.7
6H	17.5	17.9	17.9	18.3	18.7	17.6	17.9	18.0	18.3	18.7
8H	17.5	17.8	17.9	18.2	18.7	17.5	17.8	18.0	18.2	18.7
12H	17.4	17.7	17.9	18.1	18.6	17.4	17.7	17.9	18.2	18.6
12H 4H	17.5	17.9	17.9	18.2	18.6	17.5	17.9	17.9	18.3	18.7
6H	17.5	17.8	17.9	18.2	18.6	17.5	17.8	18.0	18.2	18.7
8H	17.4	17.7	17.9	18.1	18.6	17.5	17.7	17.9	18.2	18.6
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.7 / - 0.9					+ 0.7 / - 1.0				
1.5H	+ 0.8 / - 0.5					+ 0.8 / - 0.6				
2.0H	+ 0.8 / - 1.1					+ 0.8 / - 1.1				

CIE Pub.117, 437.4 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -2.9)  
Area: 0.00246176 m2

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:AE  
Test Date:2020-06-16

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.240m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 28	Shielding Angle:

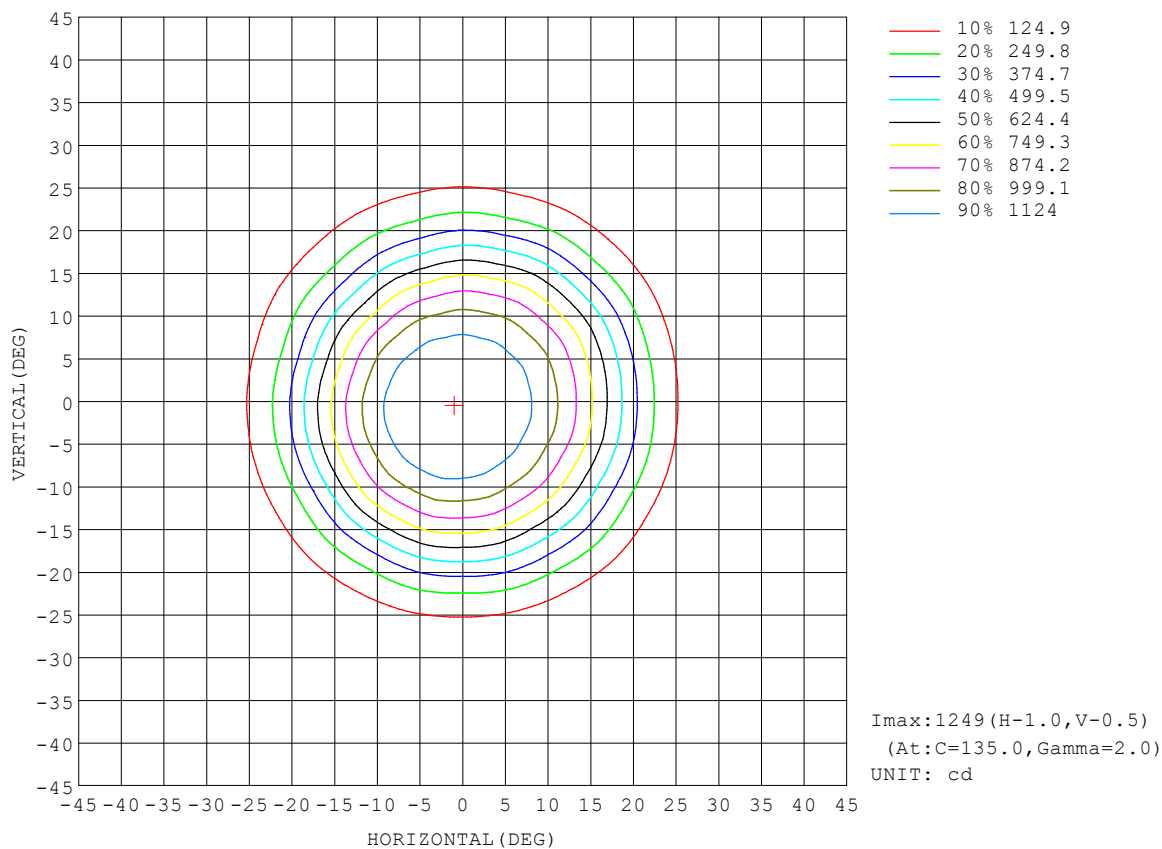
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	87	81	77	87	81	77	86	80	77	73
0.80	95	89	85	94	88	85	93	88	85	81
1.00	99	93	90	98	93	90	97	93	89	85
1.25	103	98	94	102	97	94	100	96	93	89
1.50	106	101	98	105	100	97	102	99	96	92
2.00	108	104	101	107	103	100	104	101	99	94
2.50	110	106	103	109	105	102	105	103	101	95
3.00	112	108	106	110	107	104	107	104	102	96
4.00	114	111	109	112	109	107	108	106	105	98
5.00	115	113	111	113	111	109	109	108	106	99
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: AE  
Test Date: 2020-06-16

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 7.240m [K=1.0000]  
Remarks:

### ISOCANDELA DIAGRAM

NAME :	TYPE :	WEIGHT :
SPEC. :	DIM. :	SERIAL No. :
MFR. :	SUR. : 28	Shielding Angle :



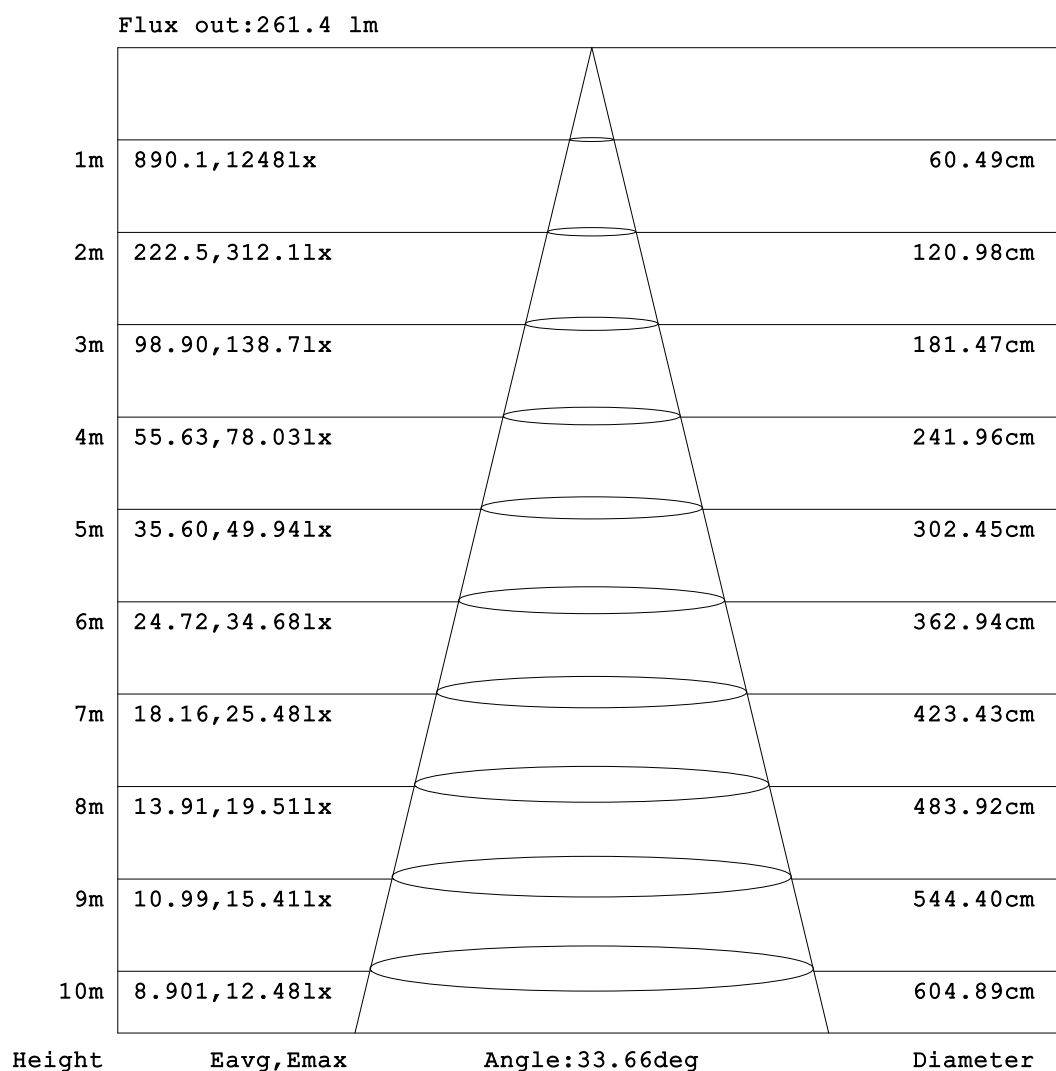
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:AE  
Test Date:2020-06-16

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.240m [K=1.0000]  
Remarks:



**AAI Figure**

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 28	Shielding Angle:



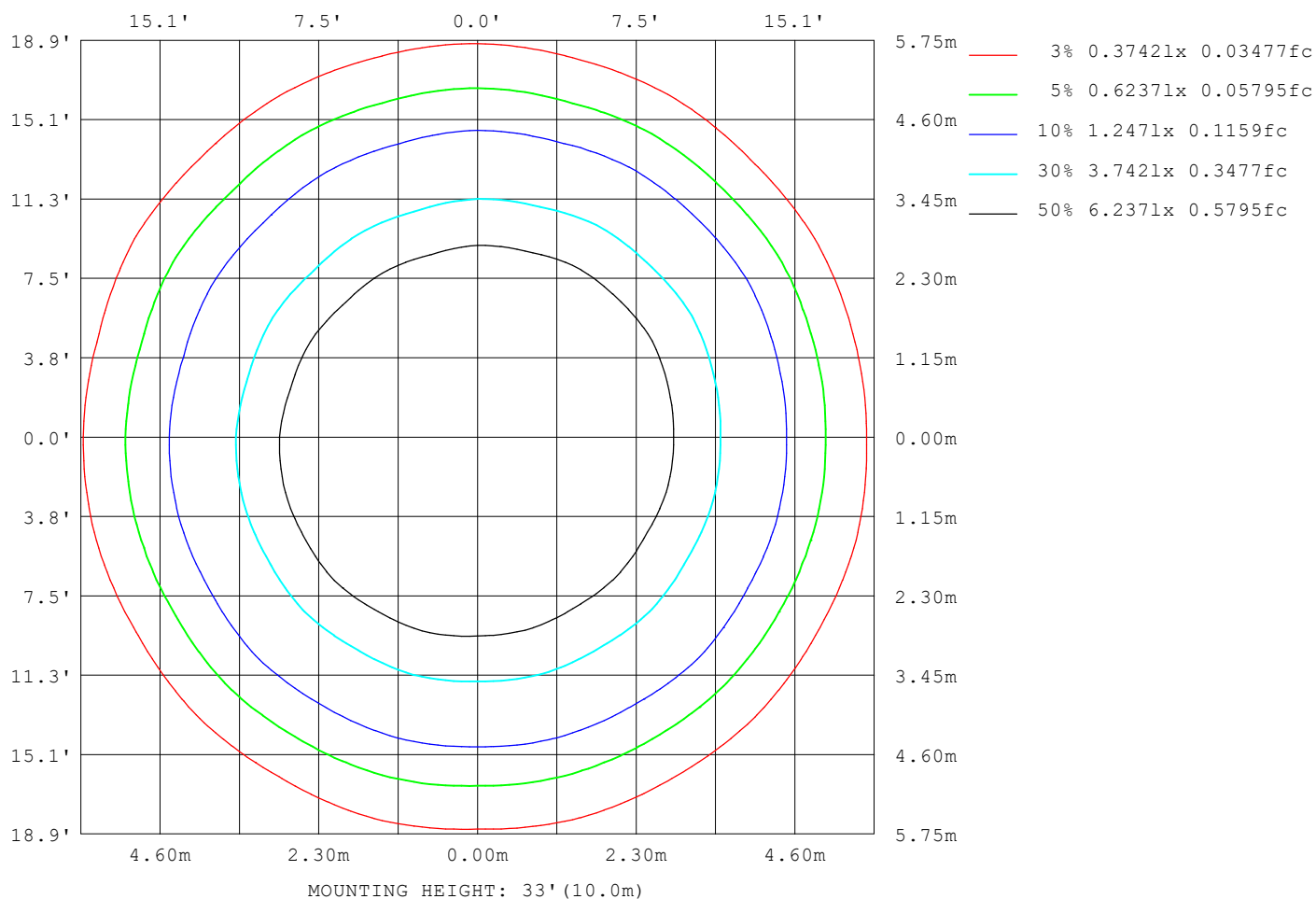
**Note:**The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:AE  
 Test Date:2020-06-16

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.240m [K=1.0000]  
 Remarks:

# ISOLUX DIAGRAM

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 28	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: AE  
 Test Date: 2020-06-16

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity: 65.0%  
 Test Distance: 7.240m [K=1.0000]  
 Remarks:

### LED Avg.L Report

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 28	Shielding Angle:

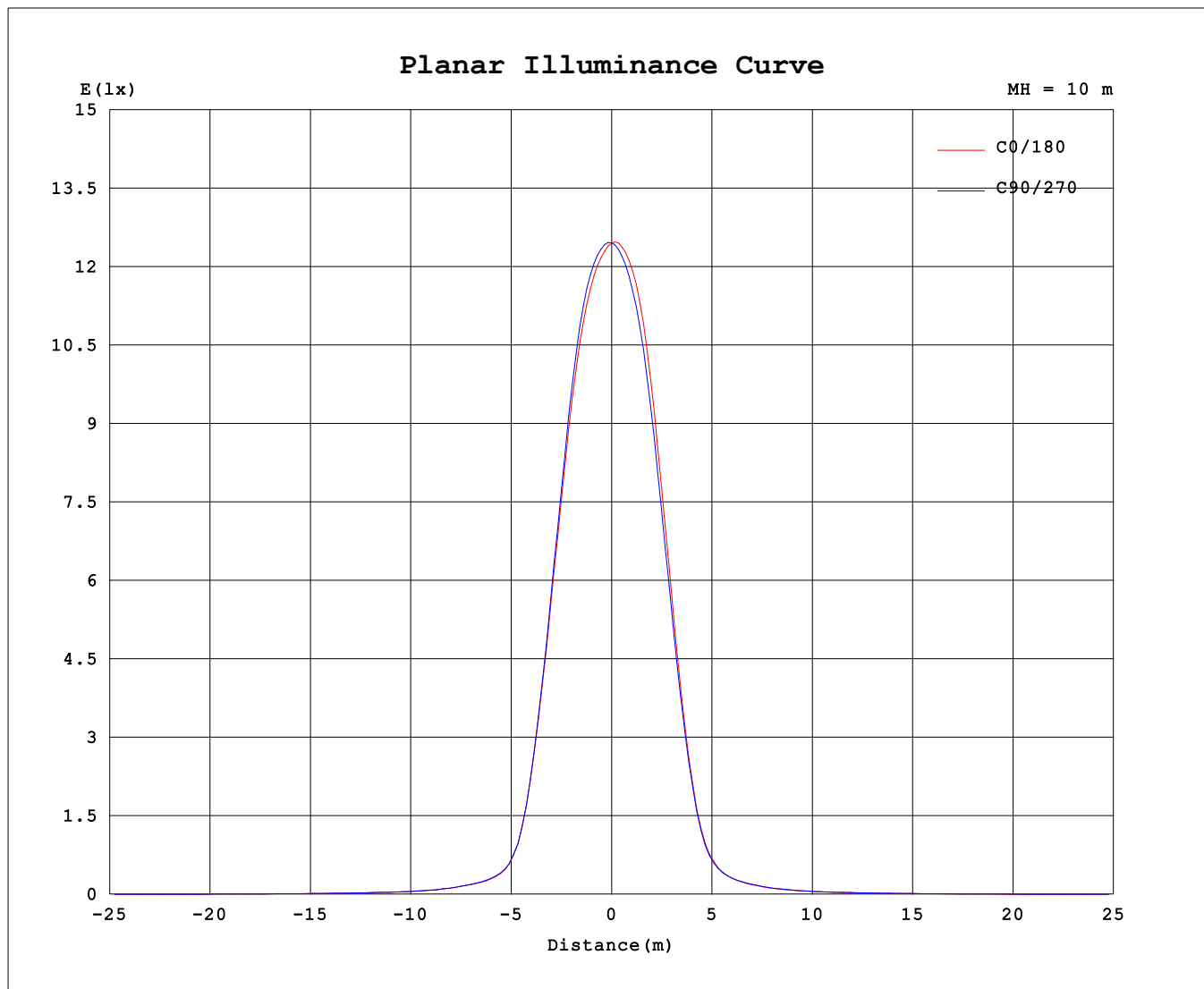
AvgL	cd/m2
L_0~180 (65) av	4778
L_0~180 (75) av	2537
L_0~180 (85) av	0
L_90~270 (65) av	4893
L_90~270 (75) av	2573
L_90~270 (85) av	0
L_45 (65) av	4852
L_45 (75) av	2548
L_45 (85) av	0

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:AE  
Test Date:2020-06-16

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.240m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: AE  
Test Date: 2020-06-16

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 7.240m [K=1.0000]  
Remarks:

NAME :	TYPE :	WEIGHT :
SPEC. :	DIM. :	SERIAL No. :
MFR. :	SUR. : 28	Shielding Angle :

UNIT: cd

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: AE  
Test Date: 2020-06-16

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.240m [K=1.0000]
Remarks:

```

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.240m [K=1.0000]
Remarks:

```