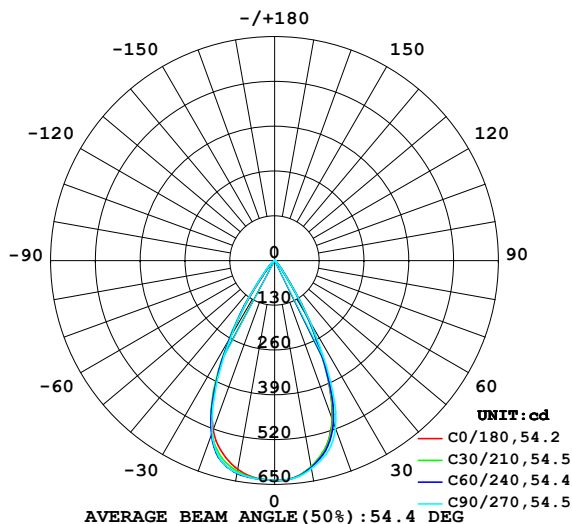


LUMINAIRE PHOTOMETRIC TEST REPORT

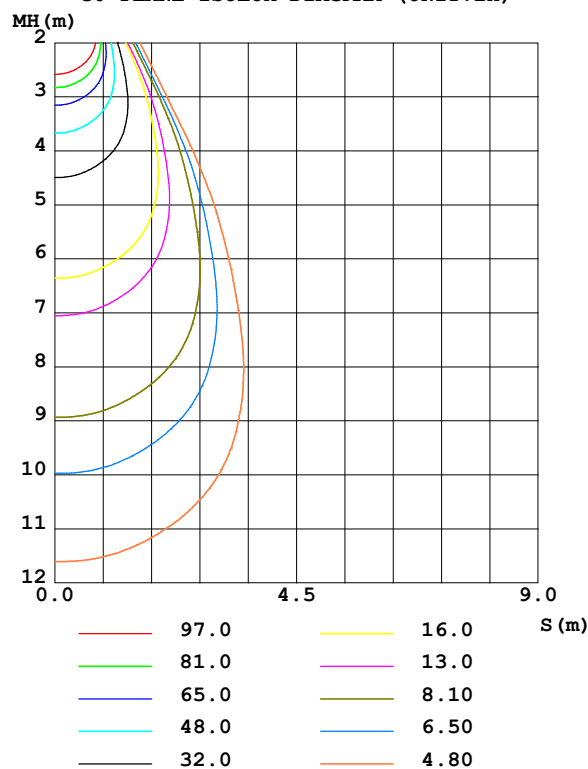
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 36	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 41.19 lm/W
MODEL	ALSP45-11G30-60	Imax (cd)	638.5	S/MH(C0/180)	0.83	
NOMINAL POWER(W)	11	LOR(%)	100.0	S/MH(C90/270)	0.83	
RATED VOLTAGE(V)	226	TOTAL FLUX(lm)	477.78	η UP,DN(C0-180)	0.0,48.1	
NOMINAL FLUX(lm)	477.778	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,51.9	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.75	
TEST VOLTAGE(V)	225.1	η down (%)	100.0	CIBSE SHR MAX	0.85	

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:

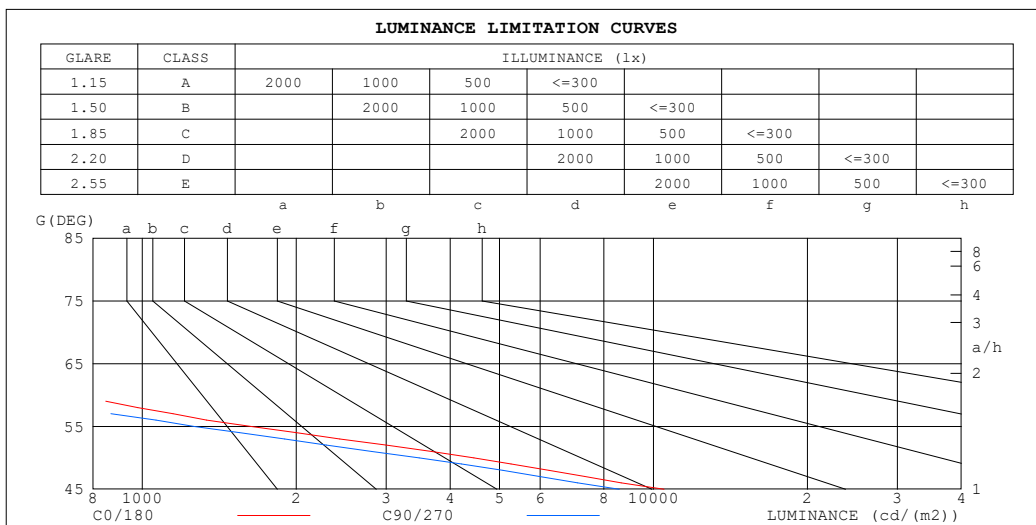
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	608.4	609.4	612.9	615.2	615.3	624.7	625.9	616.9	0- 10	59.96	59.96	12.5,12.5
20	488.0	498.1	517.3	527.4	522.5	531.7	530.9	506.0	10- 20	162.1	222.1	46.5,46.5
30	204.6	201.6	210.8	245.4	257.0	259.7	252.5	224.4	20- 30	173.6	395.6	82.8,82.8
40	30.29	27.94	28.58	33.53	40.02	45.17	48.30	37.60	30- 40	66.77	462.4	96.8,96.8
50	4.695	3.605	3.721	4.808	6.327	8.225	8.948	6.982	40- 50	13.04	475.4	99.5,99.5
60	0.5542	0.2993	0.3112	0.4123	0.7093	0.9912	1.025	0.8364	50- 60	2.133	477.5	100,100
70	0.0312	0	0	0	0	0.1093	0.0975	0.0791	60- 70	0.2237	477.8	100,100
80	0	0	0	0	0	0	0	0	70- 80	0.0043	477.8	100,100
90	0	0	0	0	0	0	0	0	80- 90	0	477.8	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

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:

LUMINANCE LIMITATION CURVES

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 36	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	0	0
80	0	0
75	0	0
70	56	0
65	268	73
60	676	374
55	1635	1265
50	4453	3477
45	10487	8572

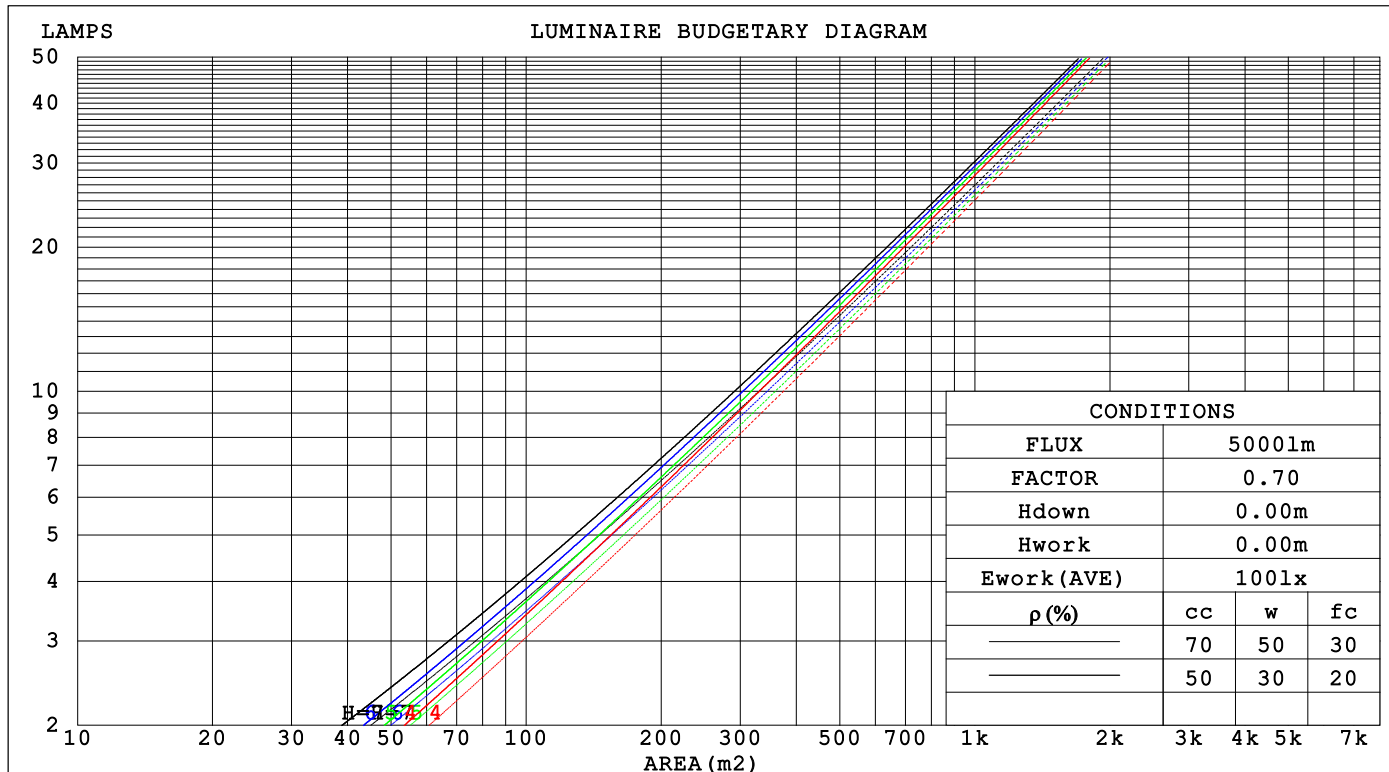
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: AE
Test Date: 2020-06-16

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.: 36	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: 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.: 36	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	.166 .094 .030	.159 .091 .029	.147 .084 .027	.135 .078 .025	.125 .072 .023	
2.0	.158 .087 .027	.152 .084 .026	.142 .079 .025	.132 .074 .023	.123 .070 .022	
3.0	.150 .080 .024	.145 .078 .023	.137 .074 .022	.128 .070 .022	.121 .067 .021	
4.0	.143 .074 .022	.139 .073 .021	.131 .070 .021	.124 .067 .020	.118 .064 .019	
5.0	.136 .069 .020	.133 .068 .020	.126 .066 .019	.120 .063 .019	.114 .061 .018	
6.0	.130 .065 .019	.127 .064 .018	.121 .062 .018	.116 .060 .018	.111 .058 .017	
7.0	.125 .062 .017	.122 .061 .017	.117 .059 .017	.112 .057 .017	.108 .056 .016	
8.0	.120 .058 .016	.117 .058 .016	.113 .056 .016	.108 .055 .016	.104 .054 .016	
9.0	.115 .056 .016	.113 .055 .015	.109 .054 .015	.105 .053 .015	.101 .051 .015	
10.0	.111 .053 .015	.109 .052 .015	.105 .051 .014	.101 .050 .014	.098 .049 .014	

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 .157 .146	.146 .135 .125	.100 .093 .087	.057 .054 .050	.018 .017 .016	
2.0	.154 .133 .114	.132 .114 .099	.091 .079 .069	.052 .046 .040	.017 .015 .013	
3.0	.141 .113 .091	.121 .098 .079	.083 .068 .055	.048 .040 .033	.015 .013 .011	
4.0	.131 .099 .074	.112 .085 .064	.077 .059 .045	.045 .035 .027	.014 .011 .009	
5.0	.122 .087 .061	.104 .075 .053	.072 .052 .038	.042 .031 .022	.013 .010 .007	
6.0	.114 .077 .051	.098 .067 .045	.068 .047 .032	.039 .028 .019	.013 .009 .006	
7.0	.107 .070 .043	.092 .060 .038	.064 .042 .027	.037 .025 .016	.012 .008 .005	
8.0	.102 .063 .037	.088 .055 .032	.061 .039 .023	.035 .023 .014	.011 .007 .005	
9.0	.097 .058 .032	.083 .050 .028	.058 .035 .020	.034 .021 .012	.011 .007 .004	
10.0	.092 .054 .028	.079 .047 .025	.055 .033 .017	.032 .019 .010	.010 .006 .003	

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.: 36					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	18.2	19.1	18.5	19.3	19.4	17.9	18.8	18.1	18.9	19.1
3H	18.1	18.9	18.3	19.1	19.3	17.7	18.5	18.0	18.7	18.9
4H	18.0	18.7	18.3	19.0	19.2	17.6	18.4	17.9	18.6	18.8
6H	17.9	18.6	18.2	18.8	19.1	17.5	18.3	17.8	18.5	18.7
8H	17.9	18.5	18.2	18.8	19.0	17.5	18.2	17.8	18.4	18.7
12H	17.8	18.5	18.1	18.7	19.0	17.5	18.1	17.8	18.4	18.6
4H 2H	18.0	18.7	18.3	19.0	19.2	17.6	18.4	17.9	18.6	18.8
3H	17.8	18.5	18.1	18.7	19.0	17.5	18.1	17.8	18.4	18.6
4H	17.7	18.3	18.1	18.6	18.9	17.4	18.0	17.7	18.2	18.6
6H	17.6	18.1	18.0	18.5	18.8	17.3	17.8	17.6	18.1	18.5
8H	17.6	18.0	18.0	18.4	18.8	17.2	17.7	17.6	18.0	18.4
12H	17.5	18.0	17.9	18.3	18.7	17.2	17.6	17.6	18.0	18.4
8H 4H	17.6	18.0	18.0	18.4	18.8	17.2	17.7	17.6	18.0	18.4
6H	17.5	17.9	17.9	18.2	18.7	17.1	17.5	17.5	17.9	18.3
8H	17.4	17.8	17.8	18.2	18.6	17.0	17.4	17.5	17.8	18.3
12H	17.3	17.6	17.8	18.1	18.6	17.0	17.3	17.5	17.7	18.2
12H 4H	17.5	18.0	17.9	18.3	18.7	17.2	17.6	17.6	18.0	18.4
6H	17.4	17.8	17.8	18.2	18.6	17.0	17.4	17.5	17.8	18.3
8H	17.3	17.6	17.8	18.1	18.6	17.0	17.3	17.5	17.7	18.2
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 3.8 / -17.0					+ 3.8 / -18.3				
1.5H	+ 6.2 / -13.9					+ 6.2 / -14.1				
2.0H	+ 7.6 / -17.0					+ 7.3 / -18.8				

CIE Pub.117, 477.8 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -2.6)
Area: 0.00166106 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.: 36	Shielding Angle:

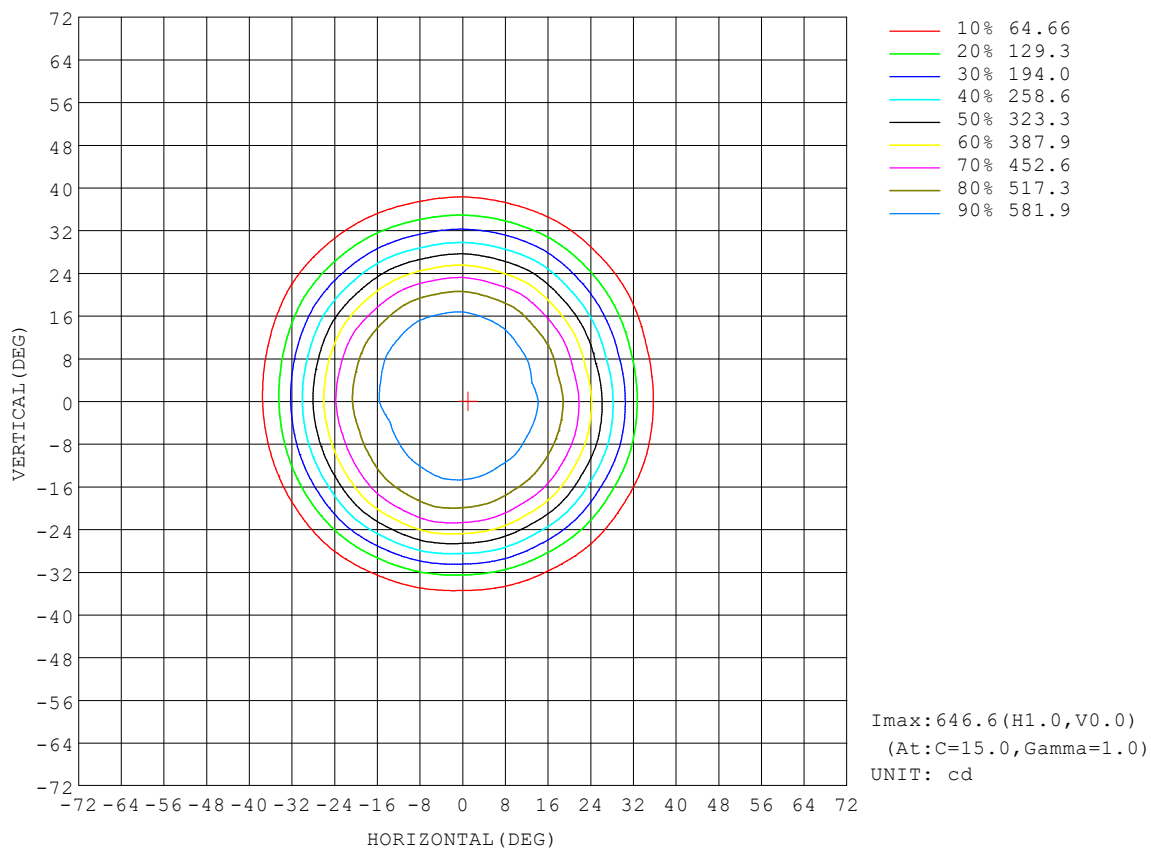
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	90	84	80	89	83	80	88	83	80	76
0.80	97	91	88	96	91	88	95	90	87	84
1.00	101	96	92	100	95	92	98	95	91	88
1.25	105	100	97	104	99	96	102	98	95	91
1.50	107	103	100	106	102	99	104	100	98	94
2.00	109	106	103	108	105	102	105	103	100	95
2.50	111	107	105	109	106	104	106	104	102	96
3.00	112	109	107	111	108	106	107	105	103	97
4.00	114	112	110	112	110	108	109	107	106	99
5.00	115	113	112	113	112	110	109	108	107	100
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

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:

ISOCANDELA DIAGRAM

NAME :	TYPE :	WEIGHT :
SPEC. :	DIM. :	SERIAL No. :
MFR. :	SUR. : 36	Shielding Angle :

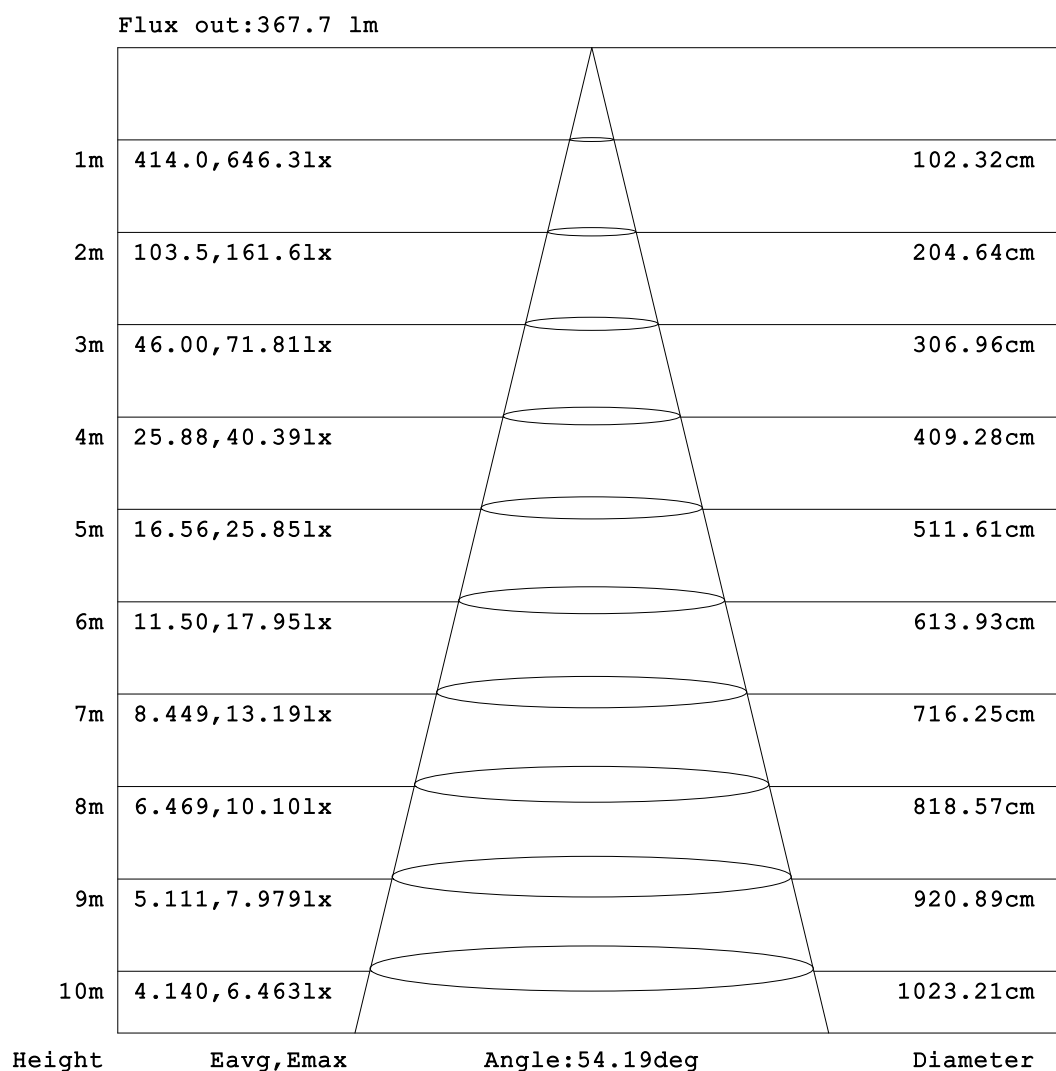


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: AE
 Test Date: 2020-06-16

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:

AAI Figure

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 36	Shielding Angle:



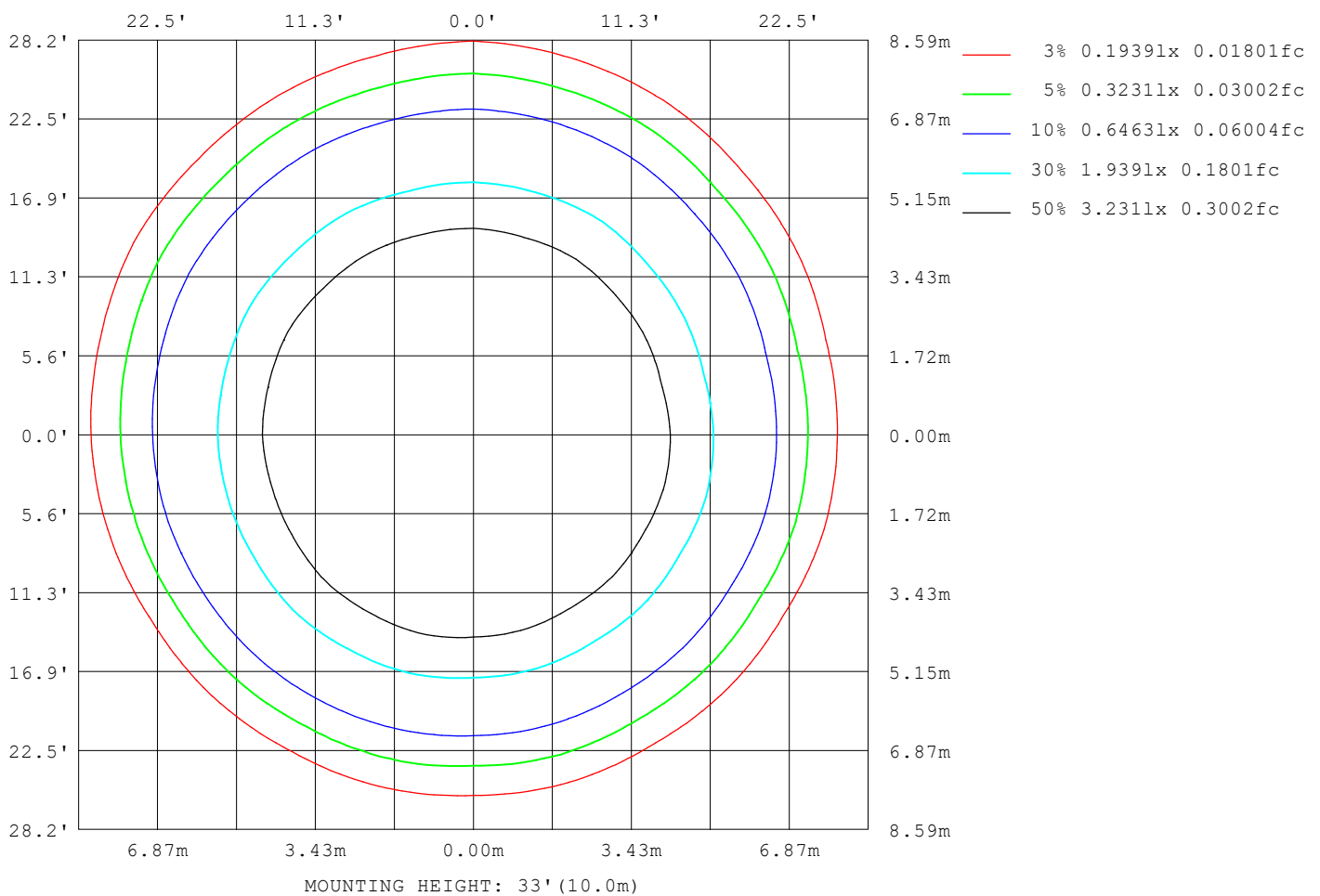
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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.: 36	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.: 36	Shielding Angle:

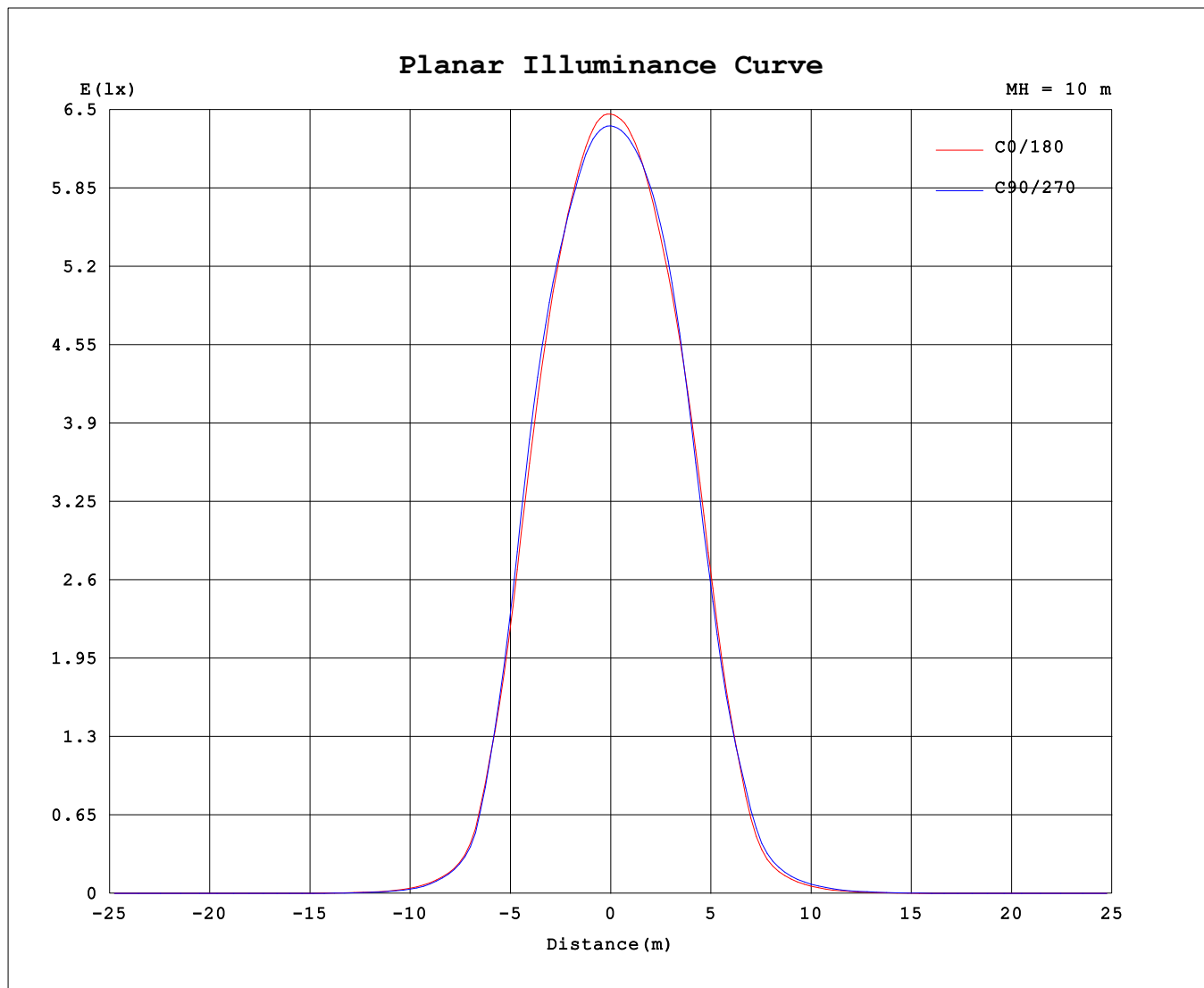
AvgL	cd/m2
L_0~180 (65) av	248
L_0~180 (75) av	0
L_0~180 (85) av	0
L_90~270 (65) av	265
L_90~270 (75) av	0
L_90~270 (85) av	0
L_45 (65) av	230
L_45 (75) av	0
L_45 (85) av	0

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

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:

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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:

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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:

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