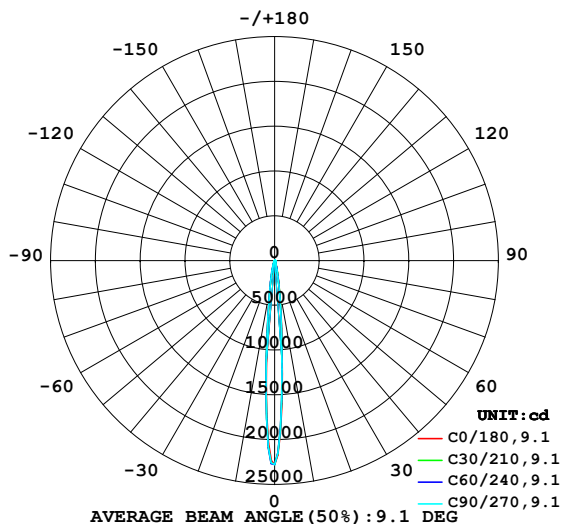


LUMINAIRE PHOTOMETRIC TEST REPORT

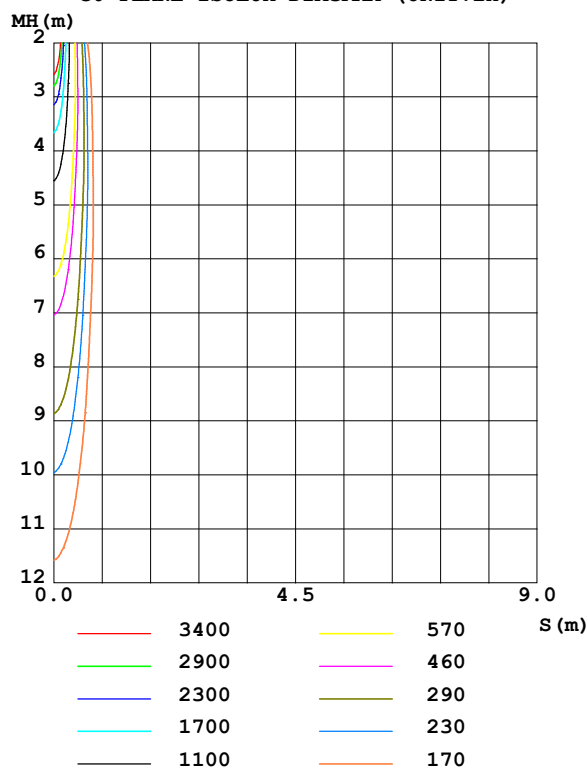
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 58	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 87.37 lm/W
MODEL	TL45-15G40-15-S	Imax (cd)	22781	S/MH(C0/180)	0.16	
NOMINAL POWER(W)	15	LOR(%)	100.0	S/MH(C90/270)	0.17	
RATED VOLTAGE(V)	220-240	TOTAL FLUX(lm)	1310.5	η UP,DN(C0-180)	0.0,49.0	
NOMINAL FLUX(lm)	1310.52	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,51.0	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.00	
TEST VOLTAGE(V)	230	η down (%)	100.0	CIBSE SHR MAX	0.15	

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: 2020-10-29

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:

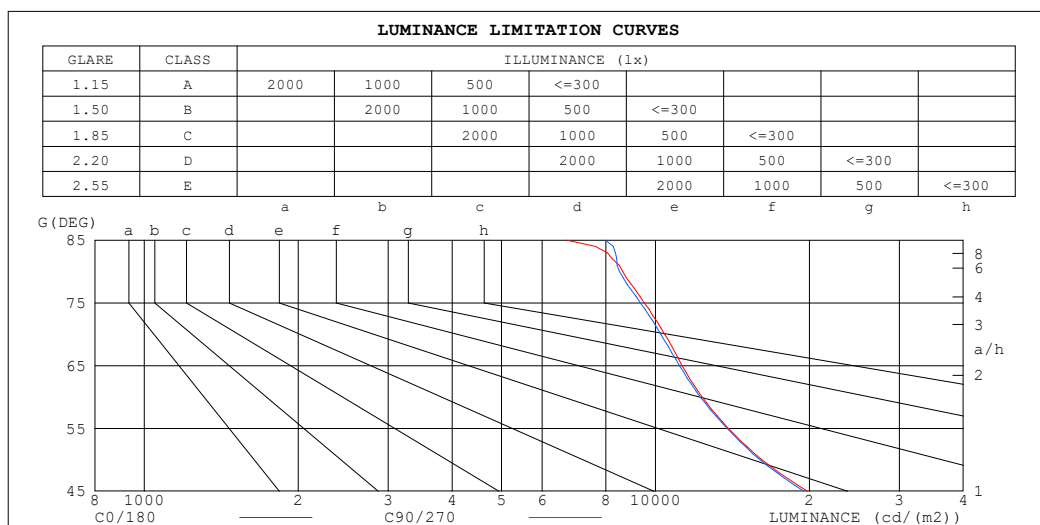
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	303.0	297.9	273.9	285.0	291.0	281.0	301.6	294.3	0- 10	746.8	746.8	57,57
20	49.91	48.13	44.48	43.59	44.17	44.19	49.34	49.79	10- 20	331.6	1078	82.3,82.3
30	13.21	12.90	12.53	12.44	12.30	12.32	13.04	13.30	20- 30	111.4	1190	90.8,90.8
40	5.230	5.211	5.104	5.123	5.047	5.015	5.224	5.288	30- 40	50.40	1240	94.6,94.6
50	2.742	2.746	2.723	2.724	2.717	2.685	2.787	2.796	40- 50	28.94	1269	96.8,96.8
60	1.627	1.622	1.617	1.621	1.668	1.664	1.696	1.671	50- 60	19.10	1288	98.3,98.3
70	0.9400	0.9328	0.9268	0.9488	1.017	1.015	1.021	0.9897	60- 70	12.81	1301	99.3,99.3
80	0.3953	0.3866	0.3907	0.4109	0.4537	0.4480	0.4449	0.4305	70- 80	7.257	1308	99.8,99.8
90	0.1055	0.1051	0.1058	0.1064	0.0407	0.0422	0.0404	0.0419	80- 90	2.163	1311	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:X10cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:AE
Test Date:2020-10-29

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. : 58	Shielding Angle :



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	6713	7983
80	8632	8512
75	9511	9345
70	10421	10252
65	11273	11136
60	12339	12238
55	13888	13803
50	16172	16026
45	19822	19526

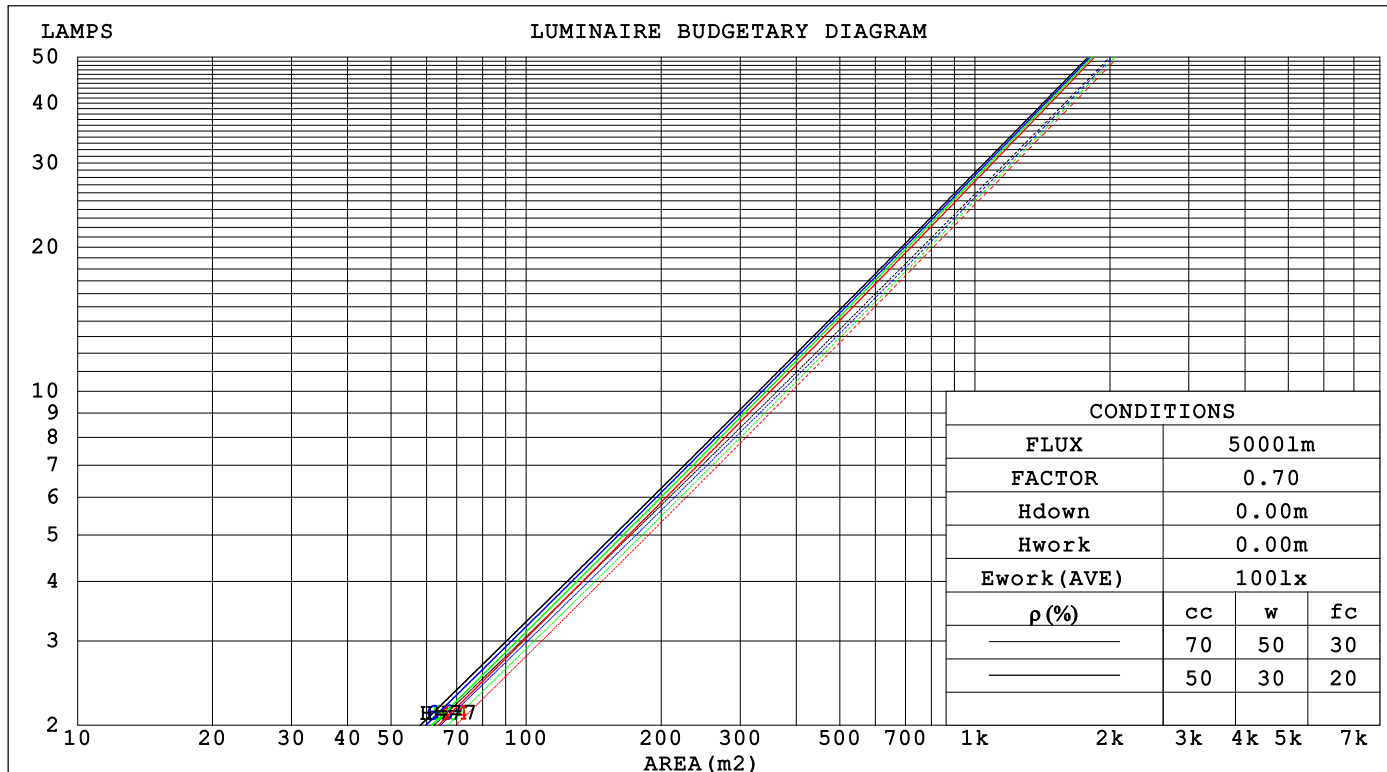
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: AE
Test Date: 2020-10-29

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.: 58	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:2020-10-29

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.: 58	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
pf _c	20%	20%	20%	20%	20%	0
RCR	RCR:Room Cavity Ratio					Wall Exitance Coefficients(WEC)
0.0						
1.0	.134 .076 .024	.127 .073 .023	.115 .066 .021	.103 .060 .019	.093 .054 .017	
2.0	.123 .067 .021	.117 .065 .020	.107 .060 .019	.098 .055 .017	.089 .050 .016	
3.0	.113 .060 .018	.108 .058 .017	.100 .054 .016	.092 .051 .015	.085 .047 .015	
4.0	.104 .054 .016	.101 .053 .016	.094 .050 .015	.087 .047 .014	.081 .044 .013	
5.0	.097 .050 .014	.094 .048 .014	.088 .046 .013	.082 .043 .013	.077 .041 .012	
6.0	.091 .046 .013	.088 .044 .013	.083 .043 .012	.078 .041 .012	.074 .039 .012	
7.0	.085 .042 .012	.083 .041 .012	.078 .040 .011	.074 .038 .011	.070 .037 .011	
8.0	.080 .039 .011	.078 .039 .011	.074 .037 .011	.071 .036 .010	.067 .035 .010	
9.0	.076 .037 .010	.074 .036 .010	.071 .035 .010	.068 .034 .010	.065 .033 .009	
10.0	.072 .035 .010	.071 .034 .010	.068 .033 .009	.065 .032 .009	.062 .031 .009	

pcc	80%	70%	50%	30%	10%	0
pw	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	0
pf _c	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	.168 .158 .148	.144 .135 .128	.098 .093 .088	.057 .054 .051	.018 .017 .017	
2.0	.150 .133 .118	.128 .114 .102	.088 .079 .071	.051 .046 .042	.016 .015 .014	
3.0	.134 .113 .097	.115 .098 .084	.079 .068 .059	.046 .040 .035	.015 .013 .011	
4.0	.121 .098 .080	.104 .084 .069	.072 .059 .049	.041 .034 .029	.013 .011 .010	
5.0	.110 .085 .067	.095 .074 .058	.065 .052 .041	.038 .030 .024	.012 .010 .008	
6.0	.101 .075 .057	.087 .065 .049	.060 .046 .035	.035 .027 .021	.011 .009 .007	
7.0	.093 .067 .049	.080 .058 .042	.055 .041 .030	.032 .024 .018	.010 .008 .006	
8.0	.086 .060 .042	.074 .052 .037	.051 .036 .026	.030 .021 .016	.010 .007 .005	
9.0	.079 .054 .037	.068 .047 .032	.047 .033 .023	.028 .019 .014	.009 .006 .004	
10.0	.074 .049 .032	.064 .043 .028	.044 .030 .020	.026 .018 .012	.008 .006 .004	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:AE
Test Date:2020-10-29

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. : 58		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	13.9	14.5	14.1	14.6	14.8	13.7	14.3	13.9	14.5	14.6	
	14.8	15.3	15.0	15.5	15.7	14.6	15.2	14.9	15.4	15.6	
	15.2	15.7	15.4	15.9	16.1	15.0	15.6	15.3	15.8	16.0	
	15.5	16.0	15.7	16.2	16.4	15.3	15.8	15.6	16.1	16.3	
	15.6	16.0	15.8	16.3	16.5	15.4	15.9	15.7	16.2	16.4	
	15.6	16.1	15.9	16.3	16.6	15.5	16.0	15.8	16.2	16.5	
4H	2H	14.2	14.8	14.5	15.0	15.2	14.1	14.6	14.4	14.8	15.1
	3H	15.3	15.8	15.6	16.1	16.3	15.2	15.7	15.5	15.9	16.2
	4H	15.8	16.3	16.1	16.5	16.8	15.7	16.1	16.0	16.4	16.7
	6H	16.2	16.6	16.6	16.9	17.3	16.1	16.5	16.4	16.8	17.1
	8H	16.3	16.7	16.7	17.1	17.4	16.2	16.6	16.6	16.9	17.3
	12H	16.4	16.7	16.8	17.1	17.5	16.3	16.7	16.7	17.0	17.4
8H	4H	16.0	16.3	16.3	16.7	17.0	15.8	16.2	16.2	16.6	16.9
	6H	16.5	16.8	16.9	17.2	17.6	16.3	16.7	16.8	17.0	17.4
	8H	16.6	16.9	17.1	17.3	17.8	16.5	16.8	17.0	17.2	17.7
	12H	16.8	17.0	17.2	17.4	17.9	16.7	16.9	17.2	17.4	17.8
12H	4H	15.9	16.3	16.3	16.6	17.0	15.8	16.2	16.2	16.5	16.9
	6H	16.5	16.7	16.9	17.2	17.6	16.4	16.6	16.8	17.0	17.5
	8H	16.7	16.9	17.2	17.4	17.8	16.6	16.8	17.1	17.3	17.7
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H	+ 0.4 / - 0.6					+ 0.4 / - 0.6					
1.5H	+ 0.6 / - 0.4					+ 0.5 / - 0.4					
2.0H	+ 0.8 / - 0.5					+ 0.7 / - 0.5					

CIE Pub.117, 1311 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.9)
Area: 0.00264 m2

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:AE
Test Date:2020-10-29

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.: 58	Shielding Angle:

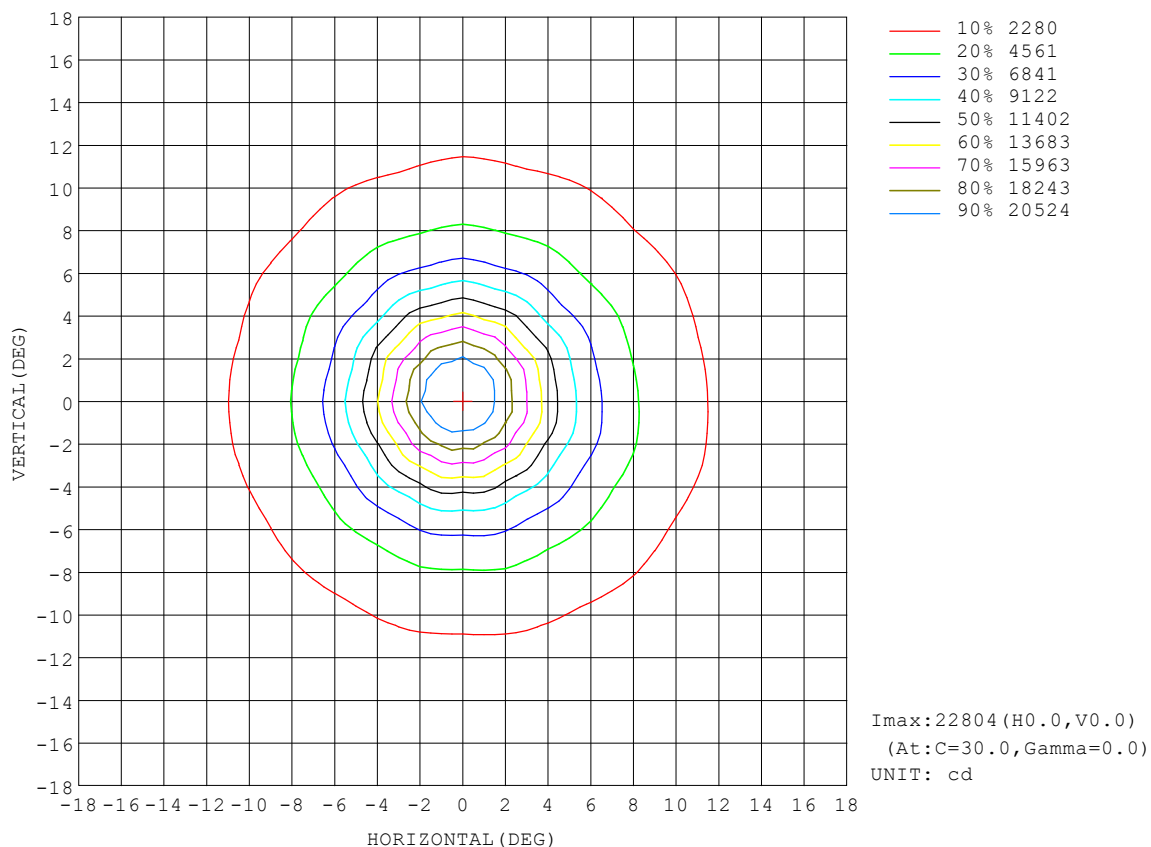
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	88	82	78	88	82	78	87	82	78	75
0.80	95	90	86	95	89	86	94	89	86	82
1.00	100	94	91	99	94	90	97	94	90	86
1.25	103	98	95	102	98	95	100	97	94	90
1.50	106	101	98	105	101	98	103	99	97	92
2.00	109	105	101	107	103	101	105	101	99	94
2.50	110	107	104	109	105	103	106	103	101	95
3.00	112	108	106	110	107	105	107	104	102	96
4.00	114	111	109	112	109	108	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: 2020-10-29

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. : 58	Shielding Angle :

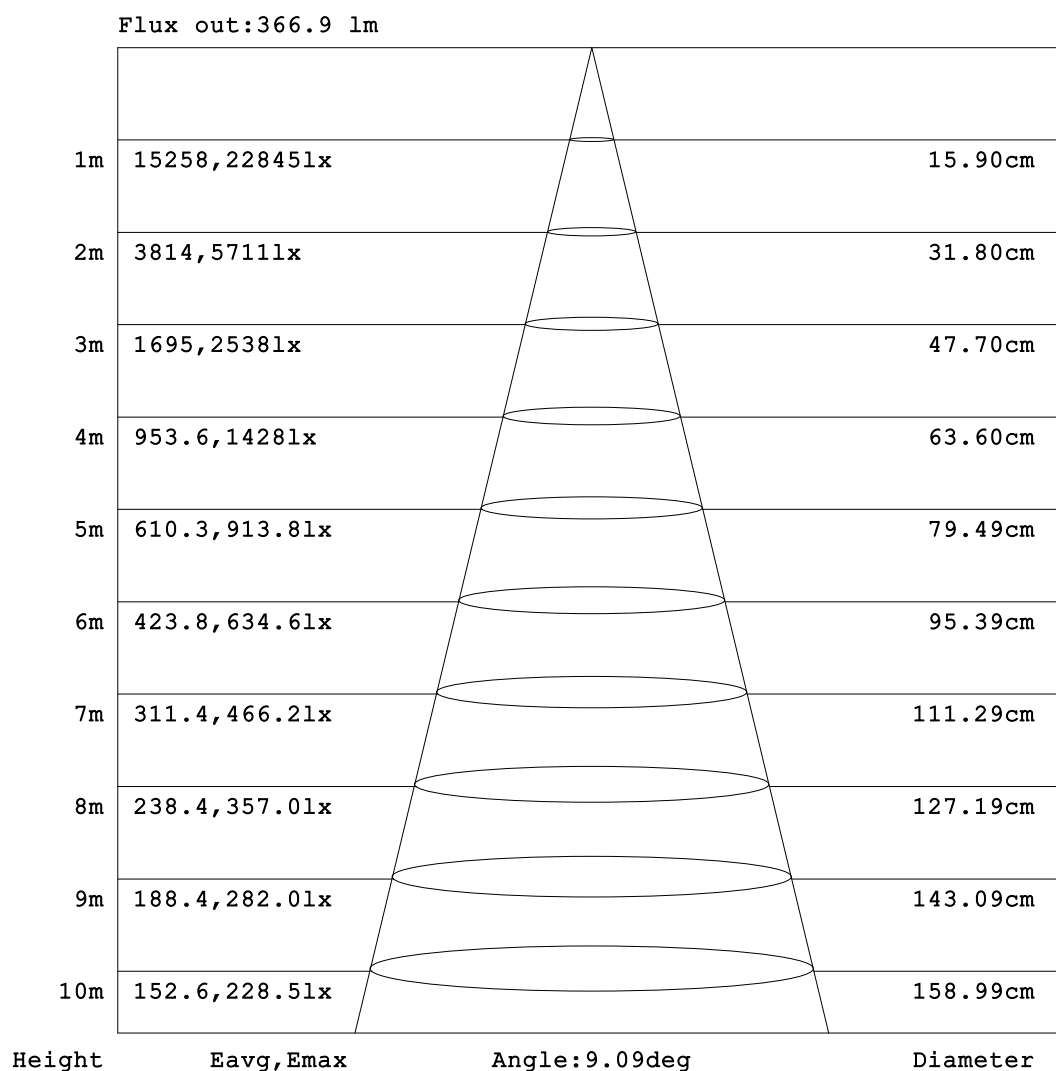


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:AE
Test Date:2020-10-29

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.: 58	Shielding Angle:



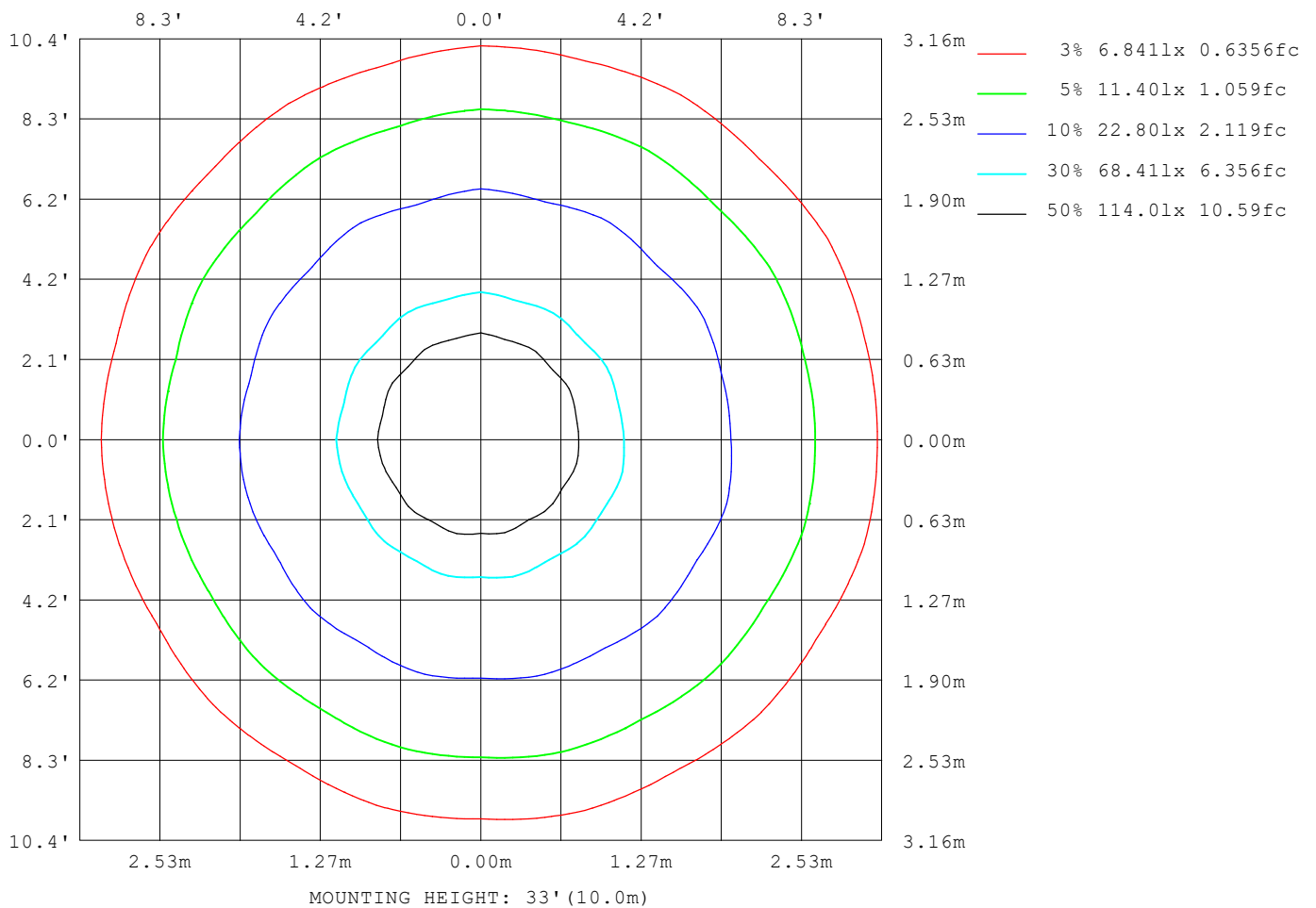
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:AE
Test Date:2020-10-29

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.: 58	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: AE
Test Date: 2020-10-29

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.: 58	Shielding Angle:

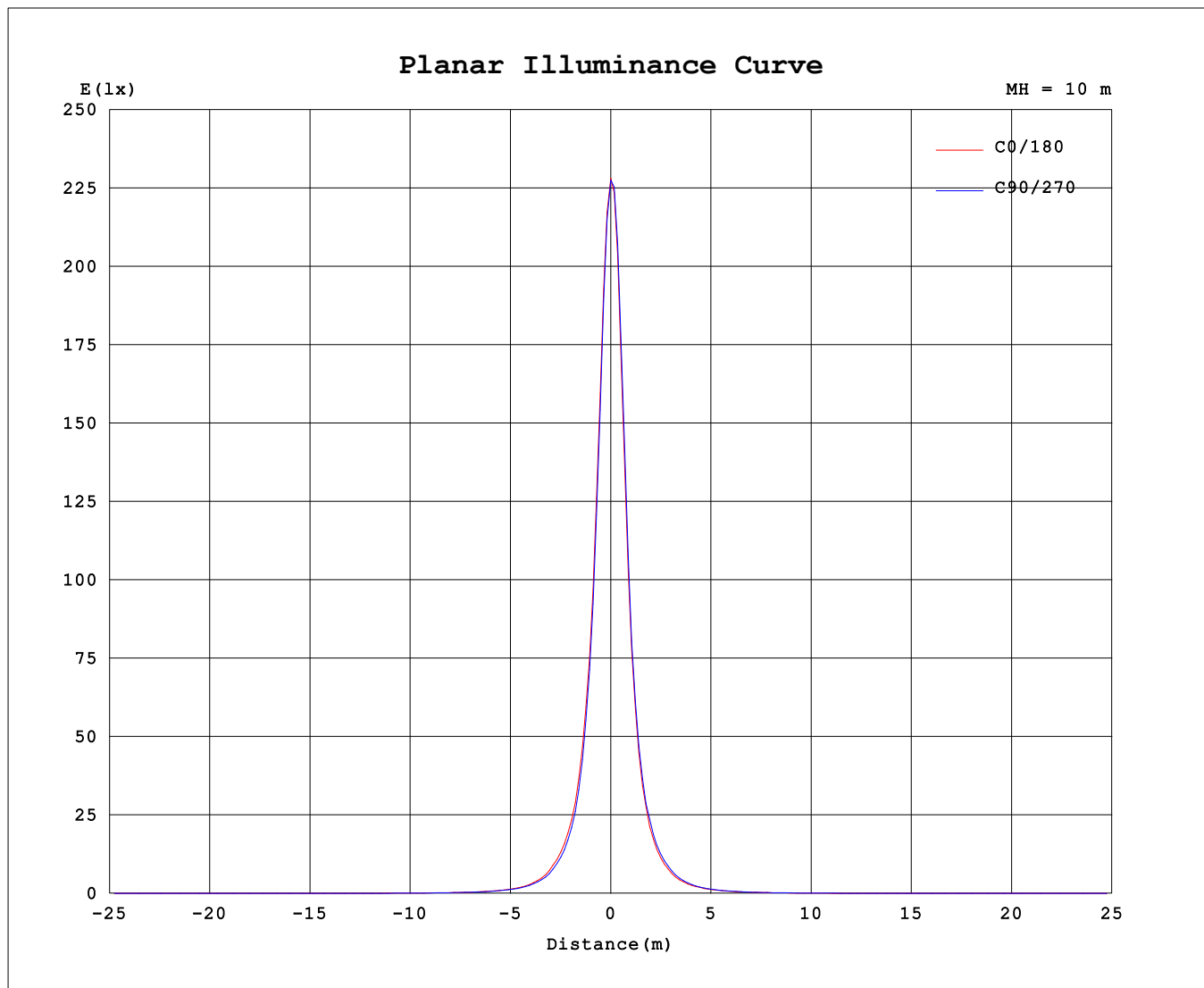
AvgL	cd/m2
L_0~180 (65) av	11565
L_0~180 (75) av	10067
L_0~180 (85) av	7293
L_90~270 (65) av	11573
L_90~270 (75) av	9955
L_90~270 (85) av	7583
L_45 (65) av	11508
L_45 (75) av	9972
L_45 (85) av	7390

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:AE
Test Date:2020-10-29

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: 2020-10-29

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:

NAME :	TYPE :	WEIGHT :
SPEC. :	DIM. :	SERIAL No. :
MFR. :	SUR. : 58	Shielding Angle :

UNIT: X10cd

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:AE
Test Date:2020-10-29

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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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