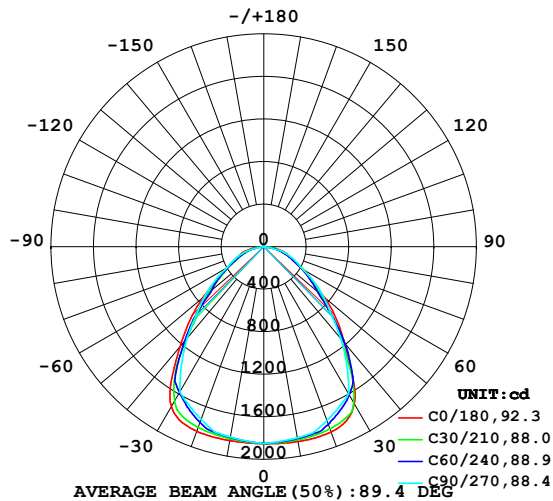


LUMINAIRE PHOTOMETRIC TEST REPORT

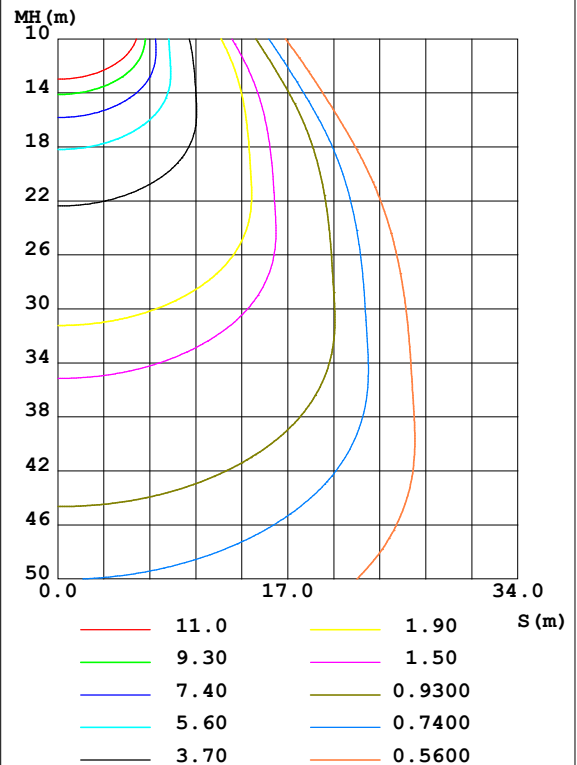
Test:U:221.33V I:0.1409A P:31.332W PF:0.9466 Freq:49.99Hz Lamp Flux:4029.08x1 lm		
NAME: GLM-SPL6060-32W-D(RA90)	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 128.59 lm/W			
MODEL		Imax(cd)	1862	S/MH(C0/180)	1.27
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.23
RATED VOLTAGE(V)	220.0	TOTAL FLUX(lm)	4029.1	□ UP,DN(C0-180)	0.0,50.3
NOMINAL FLUX(lm)	4029.08	CIE CLASS	DIRECT	□ UP,DN(C180-360)	0.0,49.7
LAMPS INSIDE	1	□ up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	220	□ down(%)	100.0	CIBSE SHR MAX	1.25

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-10-18

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.500m [K=1.0867]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	1860	1837	1825	1831	1851	1826	1818	1832	0- 10	175.6	175.6	4.36,4.36
20	1854	1817	1740	1803	1846	1796	1727	1807	10- 20	515.2	690.8	17.1,17.1
30	1704	1619	1599	1603	1738	1598	1579	1596	20- 30	796.6	1487	36.9,36.9
40	1179	1126	1128	1146	1226	1137	1119	1091	30- 40	879.7	2367	58.8,58.8
50	747.6	641.9	733.4	647.7	750.3	640.7	724.7	624.5	40- 50	693.3	3061	76,76
60	403.0	375.3	414.8	367.8	382.0	360.0	396.8	363.9	50- 60	479.7	3540	87.9,87.9
70	249.4	224.7	258.0	212.0	246.2	199.4	241.6	212.8	60- 70	308.5	3849	95.5,95.5
80	121.4	75.86	0	69.53	118.1	61.14	0	68.66	70- 80	163.1	4012	99.6,99.6
90	0	0	0	0	0	0	0	0	80- 90	17.23	4029	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): 2743.7 lm

%lum = 68.1%

%lamp = 68.1%

Conical surface Flux(120deg): 3540.2 lm

%lum = 87.9%

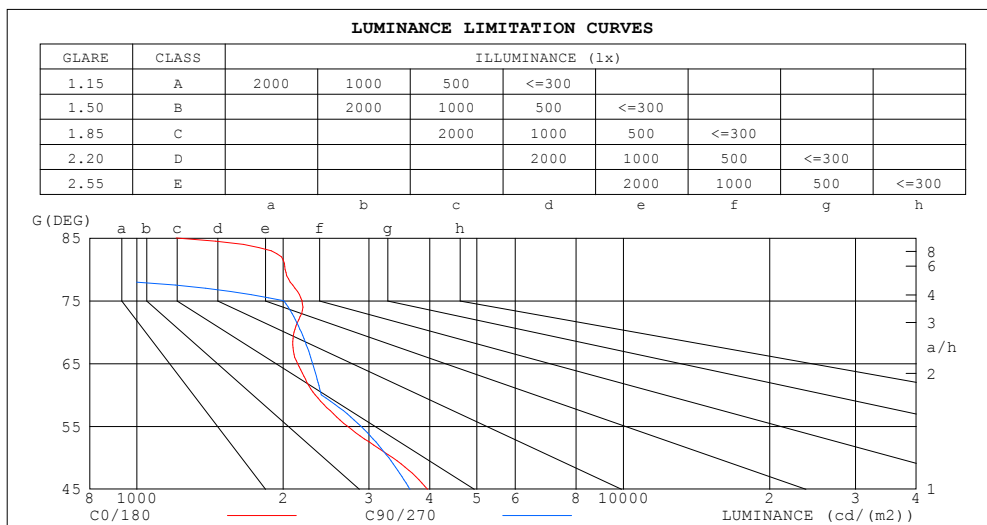
%lamp = 87.9%

H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-10-18

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.500m [K=1.0867]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:221.33V I:0.1409A P:31.332W PF:0.9466 Freq:49.99Hz Lamp Flux:4029.08x1 lm		
NAME: GLM-SPL6060-32W-D (RA90)	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1206	0
80	2019	0
75	2185	2006
70	2105	2178
65	2139	2300
60	2327	2395
55	2709	2889
50	3357	3294
45	3958	3642

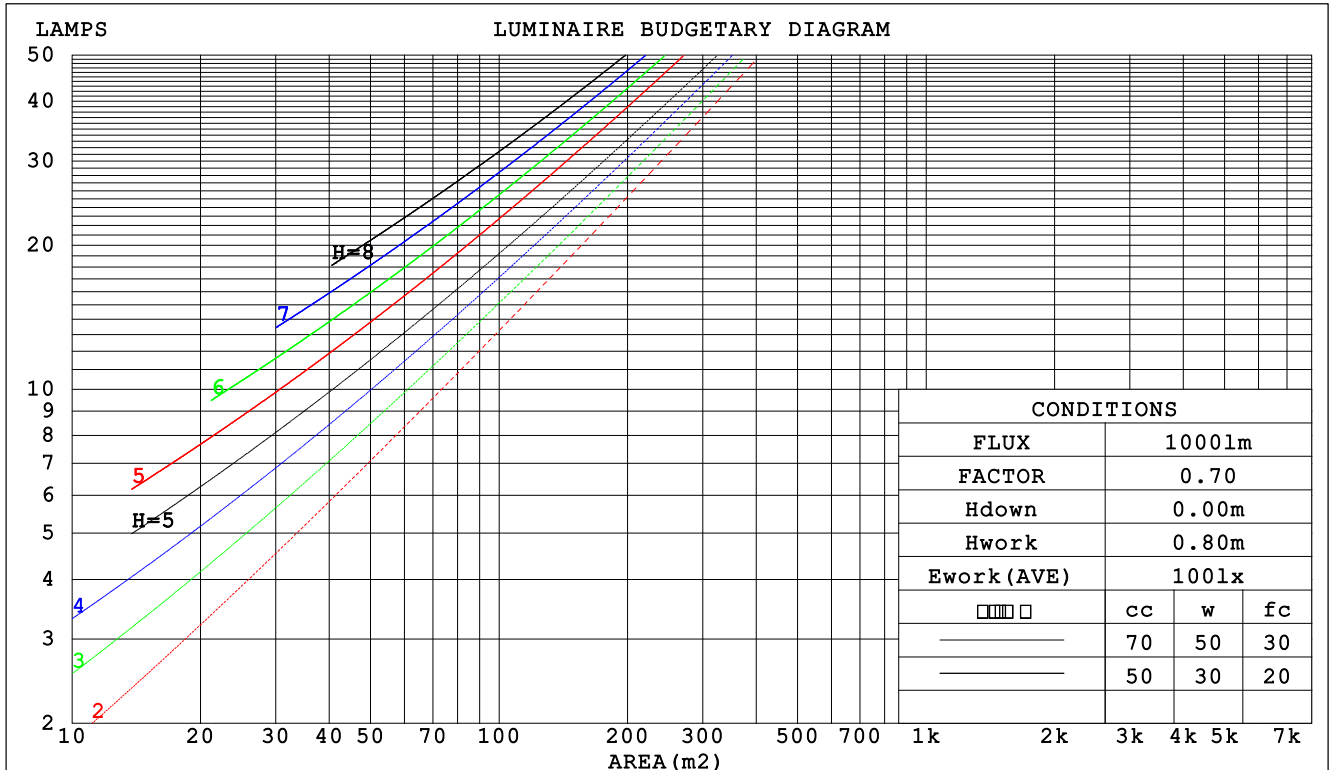
H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-10-18

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.500m [K=1.0867]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:221.33V I:0.1409A P:31.332W PF:0.9466 Freq:49.99Hz Lamp Flux:4029.08x1 lm		
NAME: GLM-SPL6060-32W-D(RA90)	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

□cc	80%			70%			50%			30%			10%			0
□w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
□fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															



H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-10-18

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.500m [K=1.0867]
Remarks:

WEC AND CCEC

Test:U:221.33V I:0.1409A P:31.332W PF:0.9466 Freq:49.99Hz Lamp Flux:4029.08x1 lm		
NAME: GLM-SPL6060-32W-D(RA90)	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

□cc	80%	70%	50%	30%	10%	0
□w	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	0
□fc	20%	20%	20%	20%	20%	0
RCR	RCR:Room Cavity Ratio Wall Exitance Coefficients(WEC)					
0.0						
1.0	.258 .147 .047	.252 .143 .046	.239 .137 .044	.227 .131 .042	.216 .125 .040	
2.0	.249 .137 .042	.243 .134 .041	.232 .129 .040	.222 .124 .039	.212 .120 .038	
3.0	.235 .125 .037	.230 .123 .037	.220 .119 .036	.211 .115 .035	.202 .112 .035	
4.0	.220 .114 .034	.216 .113 .033	.207 .110 .033	.199 .107 .032	.191 .104 .032	
5.0	.206 .105 .030	.202 .104 .030	.194 .101 .030	.187 .099 .029	.180 .096 .029	
6.0	.193 .097 .028	.190 .096 .028	.183 .094 .027	.176 .092 .027	.170 .090 .027	
7.0	.182 .090 .025	.178 .089 .025	.172 .087 .025	.166 .085 .025	.161 .084 .025	
8.0	.171 .084 .023	.168 .083 .023	.163 .081 .023	.157 .080 .023	.152 .078 .023	
9.0	.161 .078 .022	.159 .077 .022	.154 .076 .022	.149 .075 .021	.145 .074 .021	
10.0	.153 .073 .020	.150 .073 .020	.146 .071 .020	.142 .070 .020	.138 .069 .020	

□cc	80%	70%	50%	30%	10%	0
□w	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	0
□fc	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	.177 .157 .138	.151 .134 .119	.103 .092 .082	.060 .054 .048	.019 .017 .015	
2.0	.167 .132 .103	.143 .114 .089	.098 .079 .062	.056 .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 .018	.016 .010 .006	
6.0	.135 .081 .042	.116 .070 .037	.080 .049 .026	.047 .029 .015	.015 .009 .005	
7.0	.129 .074 .036	.111 .064 .031	.077 .045 .022	.045 .027 .013	.014 .009 .004	
8.0	.123 .068 .031	.106 .059 .027	.073 .042 .019	.043 .024 .011	.014 .008 .004	
9.0	.117 .063 .027	.101 .055 .023	.070 .039 .017	.041 .023 .010	.013 .007 .003	
10.0	.112 .059 .024	.097 .051 .021	.067 .036 .015	.039 .021 .009	.013 .007 .003	

H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-10-18

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.500m [K=1.0867]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:221.33V I:0.1409A P:31.332W PF:0.9466 Freq:49.99Hz Lamp Flux:4029.08x1 lm										
NAME: GLM-SPL6060-32W-D(RA90)					TYPE:LED			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:1		
MFR.: EVERFINE					SUR.:			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	16.0	17.3	16.2	17.5	17.7	15.9	17.2	16.1	17.4	17.6
3H	17.0	18.2	17.3	18.5	18.7	17.0	18.2	17.3	18.5	18.7
4H	17.5	18.7	17.8	18.9	19.2	17.5	18.6	17.8	18.9	19.1
6H	17.9	19.0	18.2	19.3	19.5	17.5	18.6	17.8	18.9	19.1
8H	18.0	19.1	18.3	19.3	19.6	17.4	18.5	17.8	18.8	19.1
12H	18.0	19.0	18.4	19.3	19.6	17.4	18.4	17.7	18.7	19.0
4H 2H	16.3	17.4	16.6	17.7	17.9	16.2	17.3	16.5	17.6	17.8
3H	17.5	18.5	17.8	18.8	19.1	17.5	18.5	17.8	18.8	19.1
4H	18.1	19.1	18.5	19.4	19.7	18.1	19.0	18.4	19.3	19.6
6H	18.6	19.5	19.0	19.8	20.2	18.1	19.0	18.5	19.3	19.7
8H	18.8	19.5	19.2	19.9	20.3	18.1	18.9	18.5	19.2	19.6
12H	18.8	19.5	19.2	19.9	20.3	18.0	18.7	18.5	19.1	19.5
8H 4H	18.3	19.0	18.7	19.4	19.8	18.2	19.0	18.6	19.3	19.7
6H	18.9	19.5	19.3	19.9	20.4	18.3	18.9	18.7	19.3	19.8
8H	19.1	19.7	19.6	20.1	20.5	18.3	18.8	18.7	19.2	19.7
12H	19.2	19.7	19.7	20.1	20.6	18.2	18.7	18.7	19.1	19.6
12H 4H	18.2	18.9	18.7	19.3	19.7	18.2	18.9	18.6	19.3	19.7
6H	18.9	19.4	19.3	19.9	20.3	18.3	18.9	18.8	19.3	19.7
8H	19.1	19.6	19.6	20.0	20.5	18.3	18.7	18.7	19.2	19.7
Variations with the observer position at spacings:										
S = 1.0H	+ 0.4 / - 0.5					+ 0.5 / - 0.5				
1.5H	+ 0.2 / - 0.3					+ 0.3 / - 0.3				
2.0H	+ 0.8 / - 0.8					+ 0.7 / - 0.7				

CIE Pub.117, 4029 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 4.8$)

H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-10-18

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.500m [K=1.0867]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:221.33V I:0.1409A P:31.332W PF:0.9466 Freq:49.99Hz Lamp Flux:4029.08x1 lm		
NAME: GLM-SPL6060-32W-D(RA90)	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

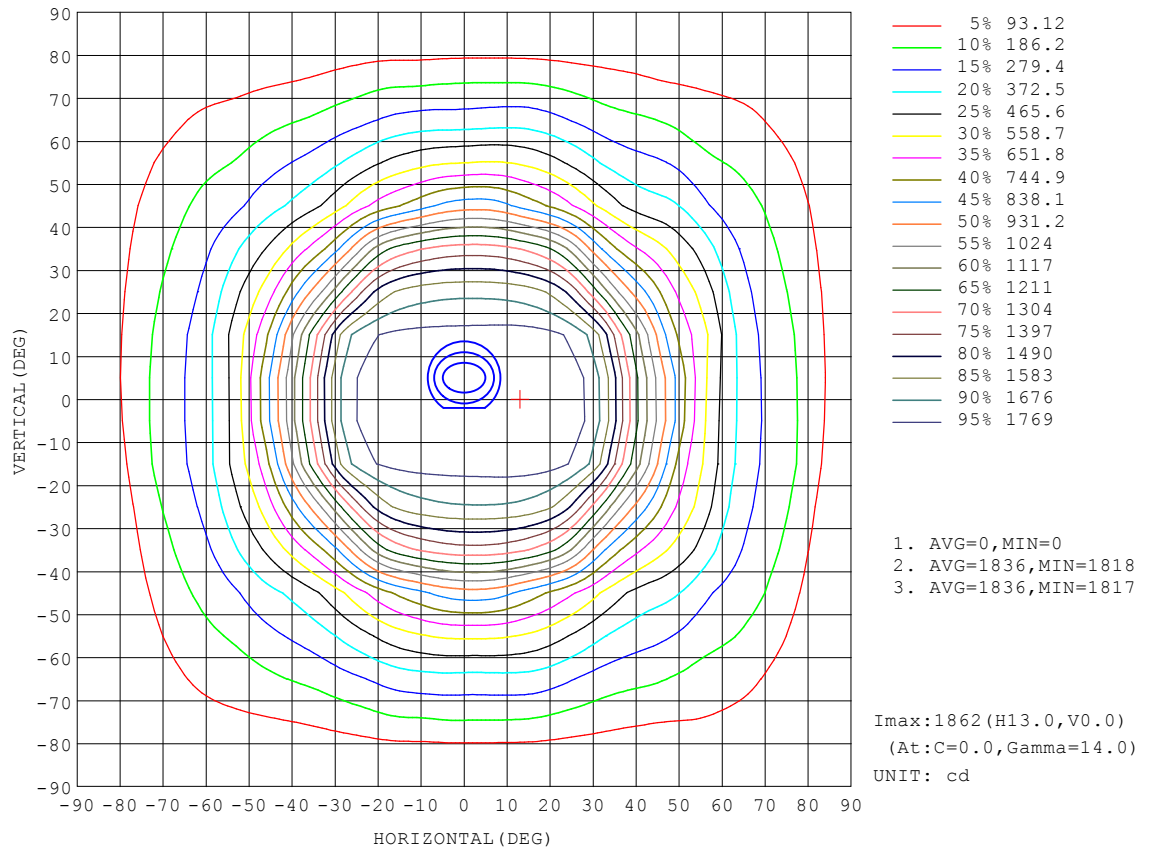
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	66	56	50	65	56	50	64	55	49	44
0.80	76	66	59	75	65	59	73	65	59	53
1.00	83	74	68	82	73	68	80	74	67	61
1.25	90	81	75	88	80	75	86	79	74	68
1.50	94	86	80	93	85	80	90	83	79	72
2.00	100	93	87	98	92	87	95	89	85	78
2.50	103	97	92	101	95	91	97	93	89	81
3.00	106	100	96	104	99	95	100	96	92	85
4.00	109	104	101	107	103	99	103	99	97	88
5.00	111	107	104	109	105	102	104	102	99	91
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-10-18

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.500m [K=1.0867]
Remarks:

ISOCANDELA DIAGRAM

Test:U:221.33V I:0.1409A P:31.332W PF:0.9466 Freq:49.99Hz Lamp Flux:4029.08x1 lm		
NAME: GLM-SPL6060-32W-D (RA90)	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

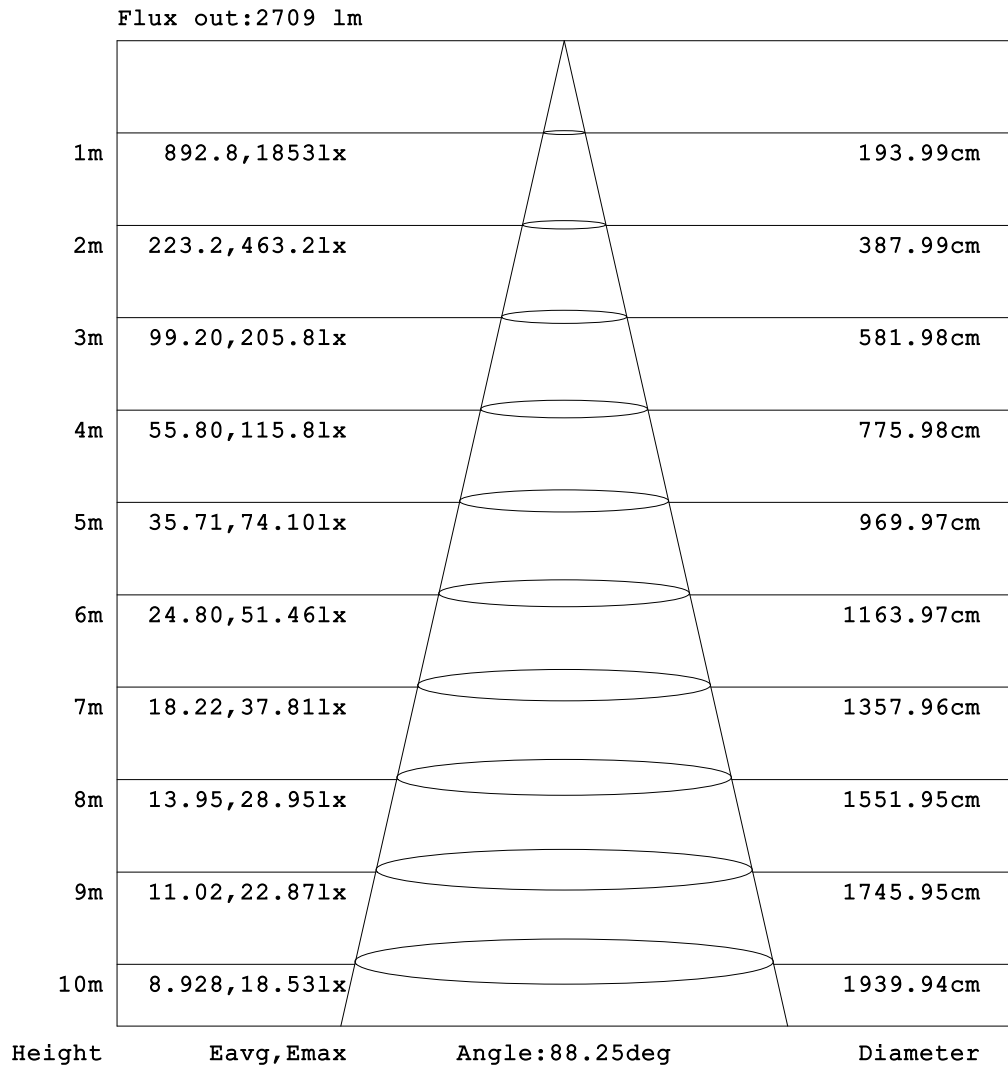


H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-10-18

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.500m [K=1.0867]
Remarks:

AAI Figure

Test:U:221.33V I:0.1409A P:31.332W PF:0.9466 Freq:49.99Hz Lamp Flux:4029.08x1 lm		
NAME: GLM-SPL6060-32W-D(RA90)	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:



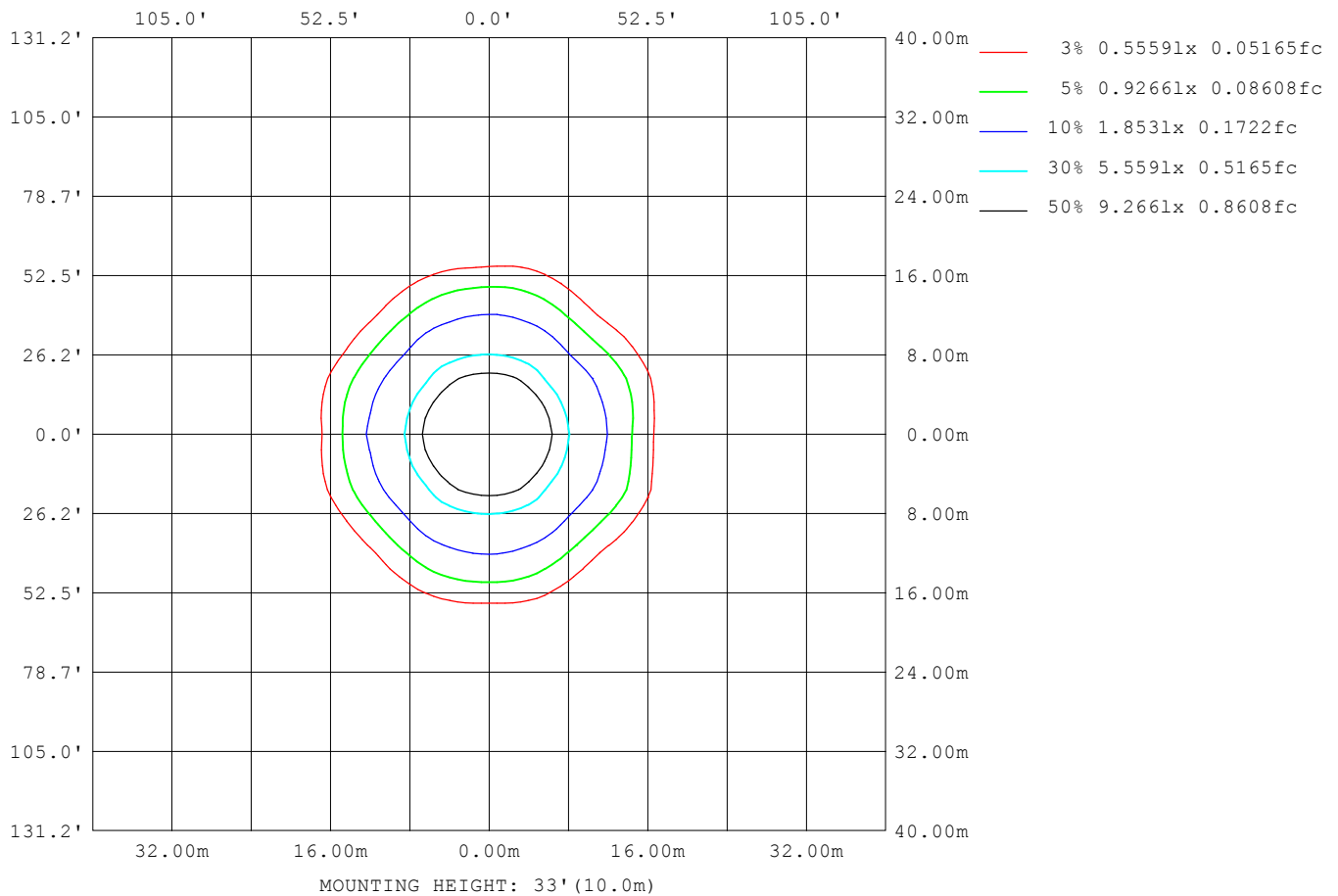
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-10-18

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.500m [K=1.0867]
Remarks:

ISOLUX DIAGRAM

Test:U:221.33V I:0.1409A P:31.332W PF:0.9466 Freq:49.99Hz Lamp Flux:4029.08x1 lm		
NAME: GLM-SPL6060-32W-D (RA90)	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:



H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-10-18

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.500m [K=1.0867]
Remarks:

LED Avg.L Report

Test:U:221.33V I:0.1409A P:31.332W PF:0.9466 Freq:49.99Hz Lamp Flux:4029.08x1 lm		
NAME: GLM-SPL6060-32W-D(RA90)	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

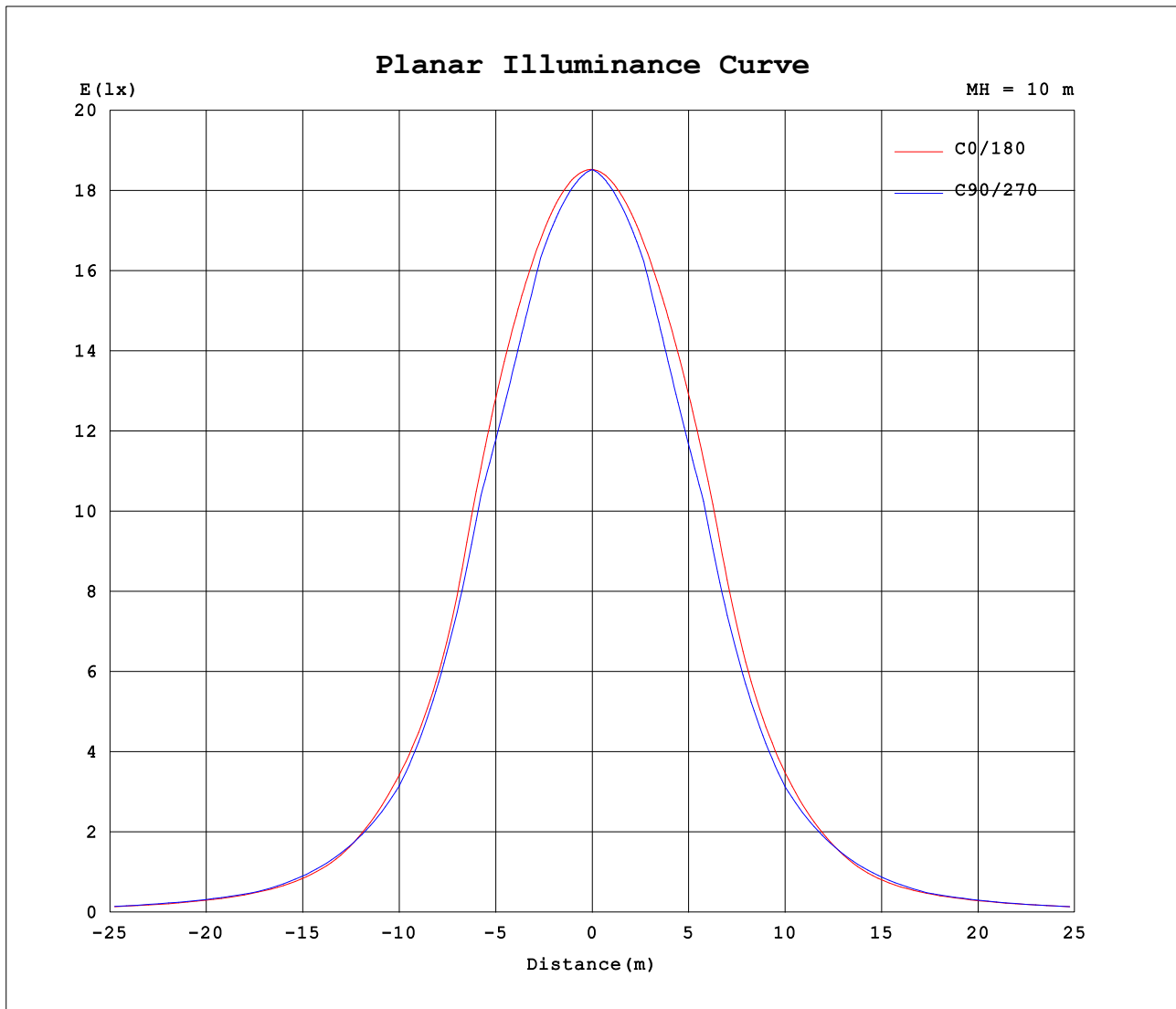
AvgL	cd/m2
L_0~180 (65) av	2121
L_0~180 (75) av	2170
L_0~180 (85) av	1207
L_90~270 (65) av	2236
L_90~270 (75) av	1916
L_90~270 (85) av	0
L_45 (65) av	1944
L_45 (75) av	1602
L_45 (85) av	0

Standard: GB/T 29293-2012

H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-10-18

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.500m [K=1.0867]
Remarks:

Planar Illuminance Curve



H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-10-18

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.500m [K=1.0867]
Remarks:

