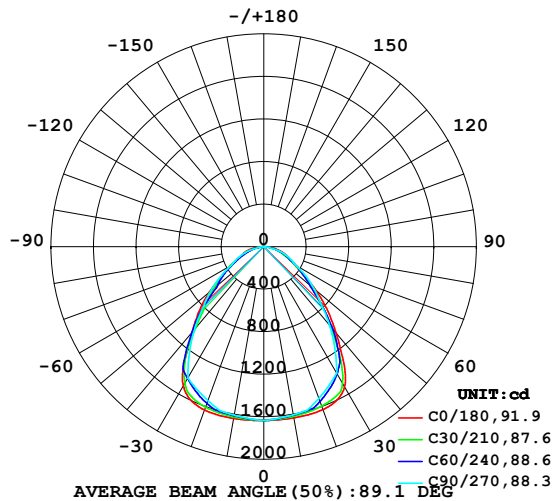


LUMINAIRE PHOTOMETRIC TEST REPORT

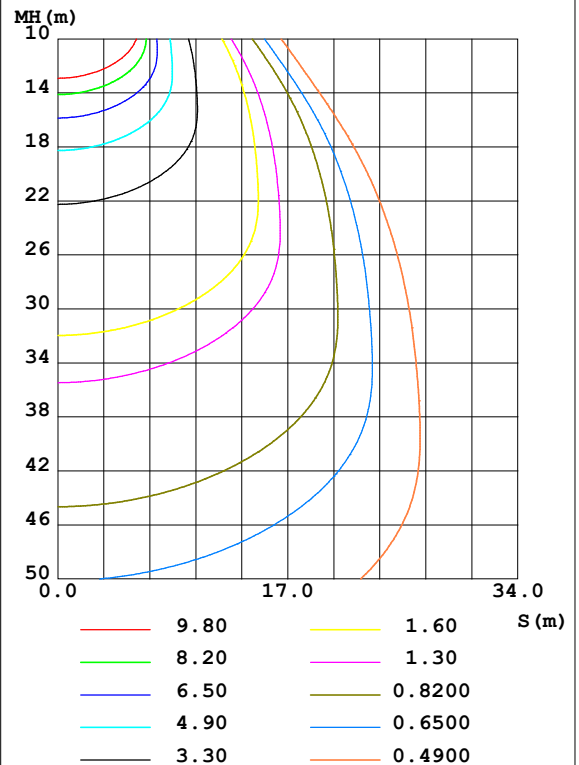
Test:U:221.23V I:0.1329A P:27.121W PF:0.9375 Freq:49.99Hz Lamp Flux:3528.78x1 lm		
NAME: GLM-SPL6060-27W-D(RA90)	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 130.11 lm/W			
MODEL		I _{max} (cd)	1641	S/MH(C0/180)	1.26
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.24
RATED VOLTAGE(V)	220.0	TOTAL FLUX(lm)	3528.8	□ UP,DN(C0-180)	0.0,49.3
NOMINAL FLUX(lm)	3528.78	CIE CLASS	DIRECT	□ UP,DN(C180-360)	0.0,50.7
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:23 September 2021

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=1.1000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	1635	1613	1606	1617	1640	1620	1609	1616	0- 10	155.0	155.0	4.39,4.39
20	1630	1587	1518	1591	1634	1597	1540	1593	10- 20	454.5	609.5	17.3,17.3
30	1521	1395	1373	1371	1514	1439	1427	1448	20- 30	702.0	1311	37.2,37.2
40	1058	943.1	962.6	924.2	1049	1057	1014	1070	30- 40	774.6	2086	59.1,59.1
50	642.3	542.3	619.0	542.1	667.6	585.2	655.4	579.0	40- 50	609.3	2695	76.4,76.4
60	331.5	314.3	342.4	316.6	355.4	324.0	352.4	316.2	50- 60	418.4	3114	88.2,88.2
70	214.8	179.0	208.1	182.4	210.2	180.2	213.3	173.6	60- 70	264.7	3378	95.7,95.7
80	98.97	54.90	0	54.47	102.4	53.16	0	54.85	70- 80	136.6	3515	99.6,99.6
90	0	0	0	0	0	0	0	0	80- 90	13.72	3529	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): 2417.2 lm

%lum = 68.5%

%lamp = 68.5%

Conical surface Flux(120deg): 3113.7 lm

%lum = 88.2%

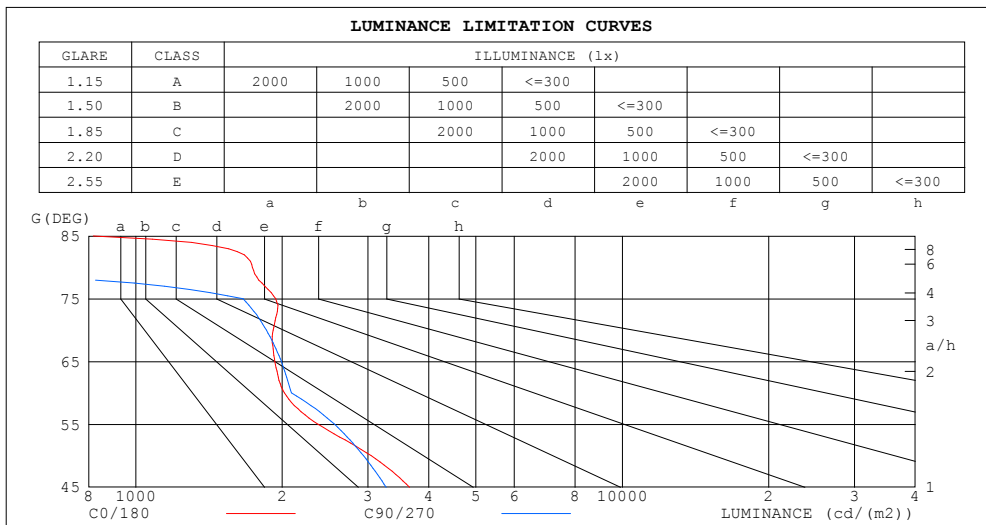
%lamp = 88.2%

H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:23 September 2021

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=1.1000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:221.23V I:0.1329A P:27.121W PF:0.9375 Freq:49.99Hz Lamp Flux:3528.78x1 lm		
NAME: GLM-SPL6060-27W-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	818	0
80	1738	0
75	1940	1661
70	1915	1855
65	1932	1992
60	2021	2088
55	2371	2562
50	3046	2936
45	3654	3270

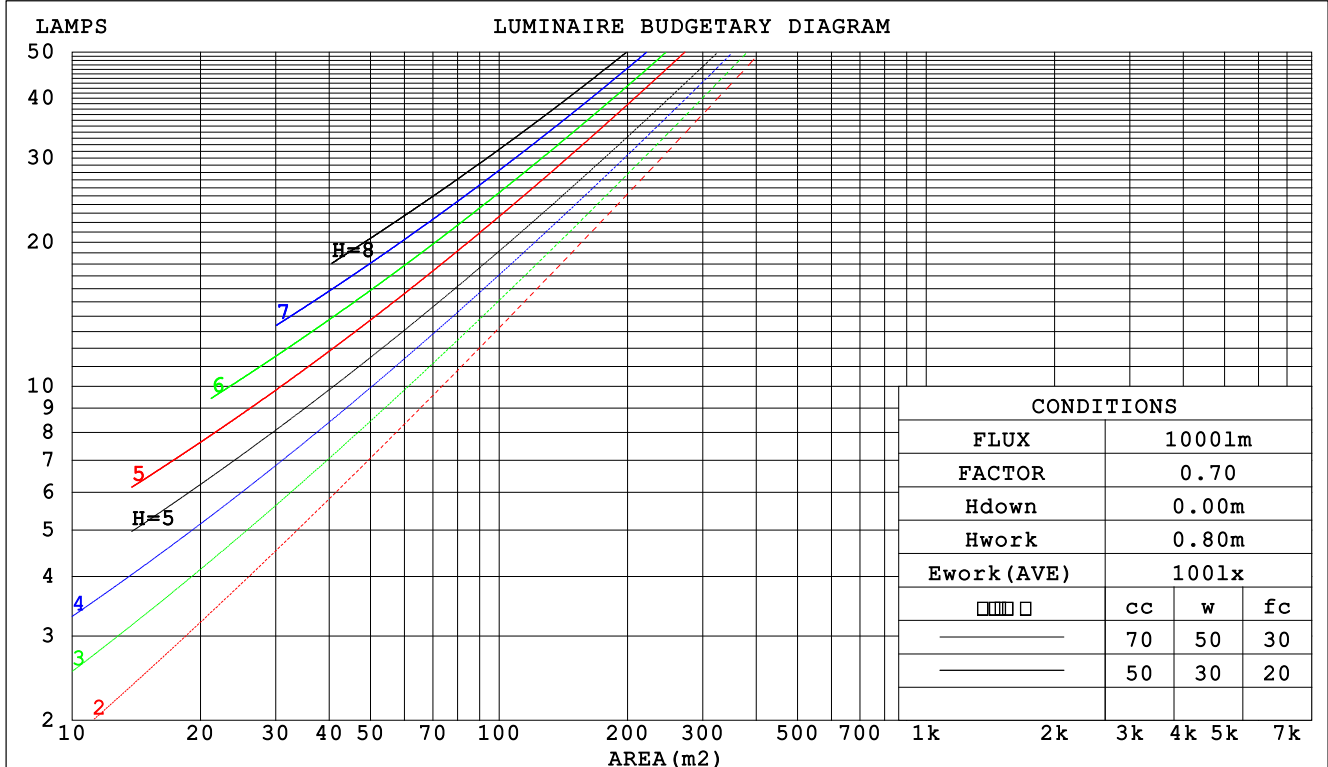
H(□) Range:-90 - 90DEG
 H(□) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:23 September 2021

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=1.1000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:221.23V I:0.1329A P:27.121W PF:0.9375 Freq:49.99Hz Lamp Flux:3528.78x1 lm		
NAME: GLM-SPL6060-27W-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:23 September 2021

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=1.1000]

Remarks:

WEC AND CCEC

Test:U:221.23V I:0.1329A P:27.121W PF:0.9375 Freq:49.99Hz Lamp Flux:3528.78x1 lm		
NAME: GLM-SPL6060-27W-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	.257	.146	.046	.250	.142	.045	.237	.136	.043	.225	.130	.042	.214	.124	.040		
2.0	.248	.136	.042	.242	.133	.041	.231	.128	.040	.220	.124	.039	.211	.119	.038		
3.0	.234	.124	.037	.229	.122	.037	.219	.119	.036	.210	.115	.035	.201	.111	.034		
4.0	.219	.114	.033	.215	.112	.033	.206	.109	.033	.198	.106	.032	.190	.103	.031		
5.0	.205	.105	.030	.201	.103	.030	.194	.101	.030	.186	.098	.029	.180	.096	.029		
6.0	.193	.097	.028	.189	.095	.027	.182	.093	.027	.176	.091	.027	.170	.089	.027		
7.0	.181	.090	.025	.178	.089	.025	.172	.087	.025	.166	.085	.025	.160	.083	.025		
8.0	.171	.083	.023	.168	.083	.023	.162	.081	.023	.157	.080	.023	.152	.078	.023		
9.0	.161	.078	.022	.158	.077	.022	.153	.076	.022	.149	.075	.021	.144	.073	.021		
10.0	.152	.073	.020	.150	.072	.020	.146	.071	.020	.141	.070	.020	.137	.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	.139	.151	.134	.119	.103	.092	.082	.060	.054	.048	.019	.017	.016	
2.0	.166	.132	.103	.143	.114	.089	.098	.079	.062	.056	.046	.037	.018	.015	.012	
3.0	.158	.114	.079	.135	.098	.069	.093	.068	.048	.054	.040	.028	.017	.013	.009	
4.0	.149	.100	.063	.128	.087	.055	.088	.060	.038	.051	.035	.023	.016	.012	.007	
5.0	.142	.090	.051	.122	.078	.044	.084	.054	.031	.049	.032	.019	.016	.010	.006	
6.0	.135	.081	.042	.116	.070	.037	.080	.049	.026	.046	.029	.015	.015	.009	.005	
7.0	.129	.074	.036	.111	.064	.031	.076	.045	.022	.044	.026	.013	.014	.009	.004	
8.0	.123	.068	.031	.106	.059	.027	.073	.041	.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	.096	.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:23 September 2021

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=1.1000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:221.23V I:0.1329A P:27.121W PF:0.9375 Freq:49.99Hz Lamp Flux:3528.78x1 lm										
NAME: GLM-SPL6060-27W-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	15.3	16.7	15.6	16.9	17.1	15.3	16.6	15.5	16.8	17.0
3H	16.3	17.6	16.6	17.8	18.0	16.3	17.5	16.6	17.8	18.0
4H	16.8	18.0	17.1	18.3	18.5	16.7	17.9	17.0	18.1	18.4
6H	17.2	18.3	17.5	18.6	18.8	16.7	17.8	17.0	18.1	18.4
8H	17.3	18.3	17.6	18.6	18.9	16.7	17.7	17.0	18.0	18.3
12H	17.3	18.3	17.6	18.6	18.9	16.6	17.6	17.0	17.9	18.2
4H 2H	15.6	16.8	15.9	17.0	17.3	15.5	16.7	15.8	16.9	17.2
3H	16.8	17.8	17.1	18.1	18.4	16.8	17.8	17.1	18.1	18.4
4H	17.4	18.3	17.8	18.6	19.0	17.3	18.2	17.7	18.5	18.9
6H	17.9	18.7	18.3	19.0	19.4	17.4	18.2	17.8	18.5	18.9
8H	18.0	18.7	18.4	19.1	19.5	17.3	18.1	17.7	18.4	18.8
12H	18.0	18.7	18.4	19.1	19.5	17.3	18.0	17.7	18.4	18.8
8H 4H	17.5	18.3	17.9	18.6	19.0	17.4	18.2	17.8	18.5	18.9
6H	18.1	18.7	18.5	19.1	19.5	17.5	18.1	18.0	18.5	19.0
8H	18.3	18.8	18.7	19.2	19.7	17.5	18.0	17.9	18.4	18.9
12H	18.3	18.8	18.8	19.2	19.7	17.4	17.9	17.9	18.3	18.8
12H 4H	17.5	18.2	17.9	18.6	19.0	17.4	18.1	17.8	18.5	18.9
6H	18.1	18.6	18.5	19.0	19.5	17.5	18.1	18.0	18.5	18.9
8H	18.2	18.7	18.7	19.2	19.6	17.5	17.9	17.9	18.4	18.9
Variations with the observer position at spacings:										
S = 1.0H	+ 0.4 / - 0.6					+ 0.5 / - 0.5				
1.5H	+ 0.3 / - 0.3					+ 0.4 / - 0.2				
2.0H	+ 1.0 / - 0.8					+ 0.7 / - 0.7				

CIE Pub.117, 3529 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 4.4$)

H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:23 September 2021

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=1.1000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:221.23V I:0.1329A P:27.121W PF:0.9375 Freq:49.99Hz Lamp Flux:3528.78x1 lm		
NAME: GLM-SPL6060-27W-D(RA90)	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

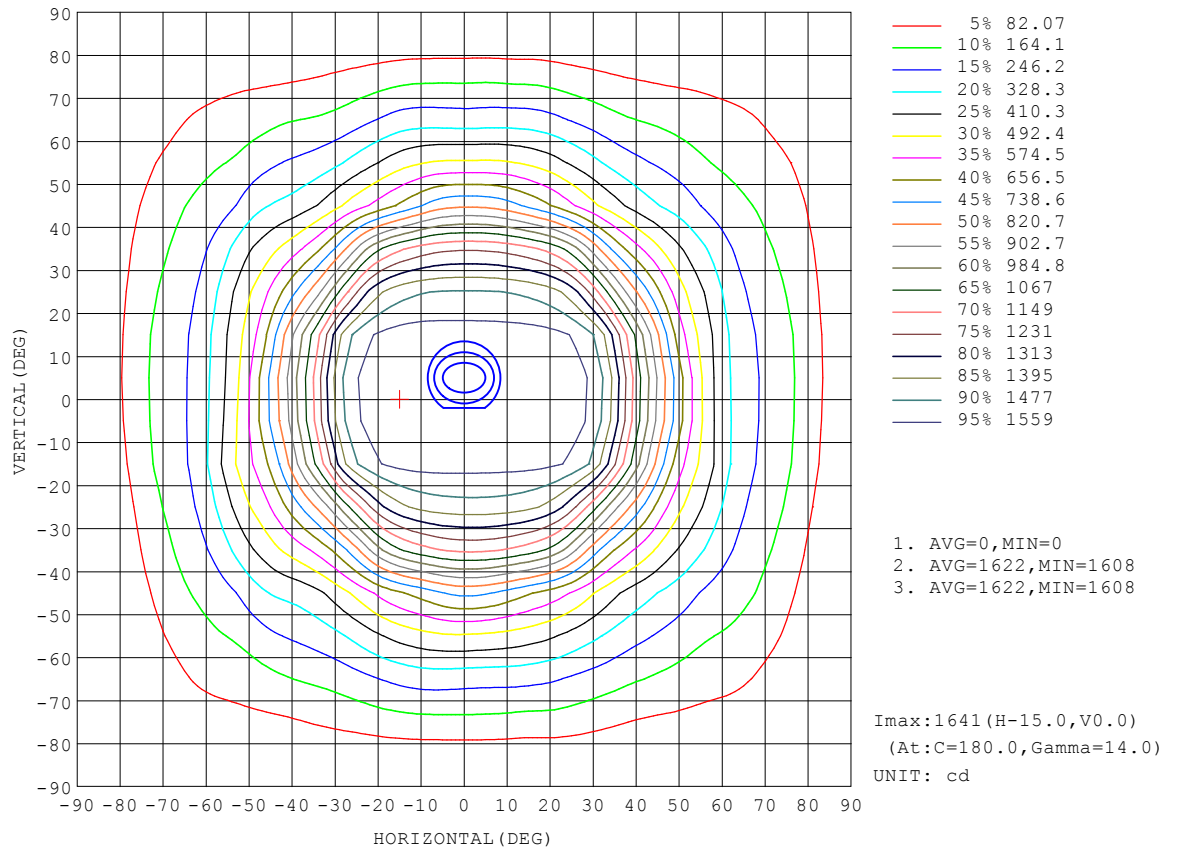
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	66	56	50	65	56	50	64	55	50	44
0.80	76	66	60	75	66	59	73	65	59	53
1.00	84	74	68	82	74	68	80	75	67	61
1.25	90	81	75	89	81	75	86	79	74	68
1.50	94	86	80	93	85	80	90	84	79	72
2.00	100	93	88	98	92	87	95	90	85	79
2.50	103	97	92	101	95	91	98	93	89	82
3.00	106	100	96	104	99	95	100	96	93	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:23 September 2021

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=1.1000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:221.23V I:0.1329A P:27.121W PF:0.9375 Freq:49.99Hz Lamp Flux:3528.78x1 lm		
NAME: GLM-SPL6060-27W-D (RA90)	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

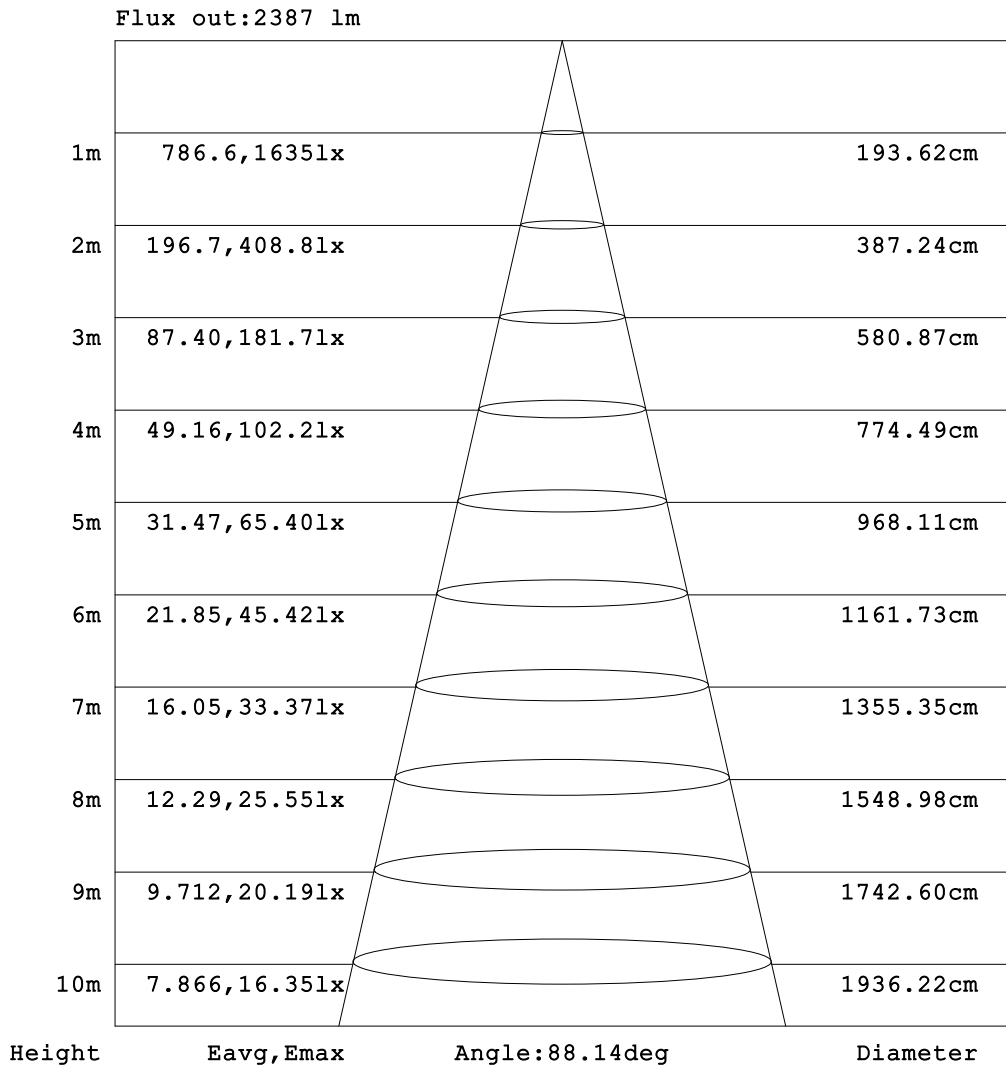


H() Range:-90 - 90DEG
H() Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:23 September 2021

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=1.1000]
Remarks:

AAI Figure

Test:U:221.23V I:0.1329A P:27.121W PF:0.9375 Freq:49.99Hz Lamp Flux:3528.78x1 lm		
NAME: GLM-SPL6060-27W-D(RA90)	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:



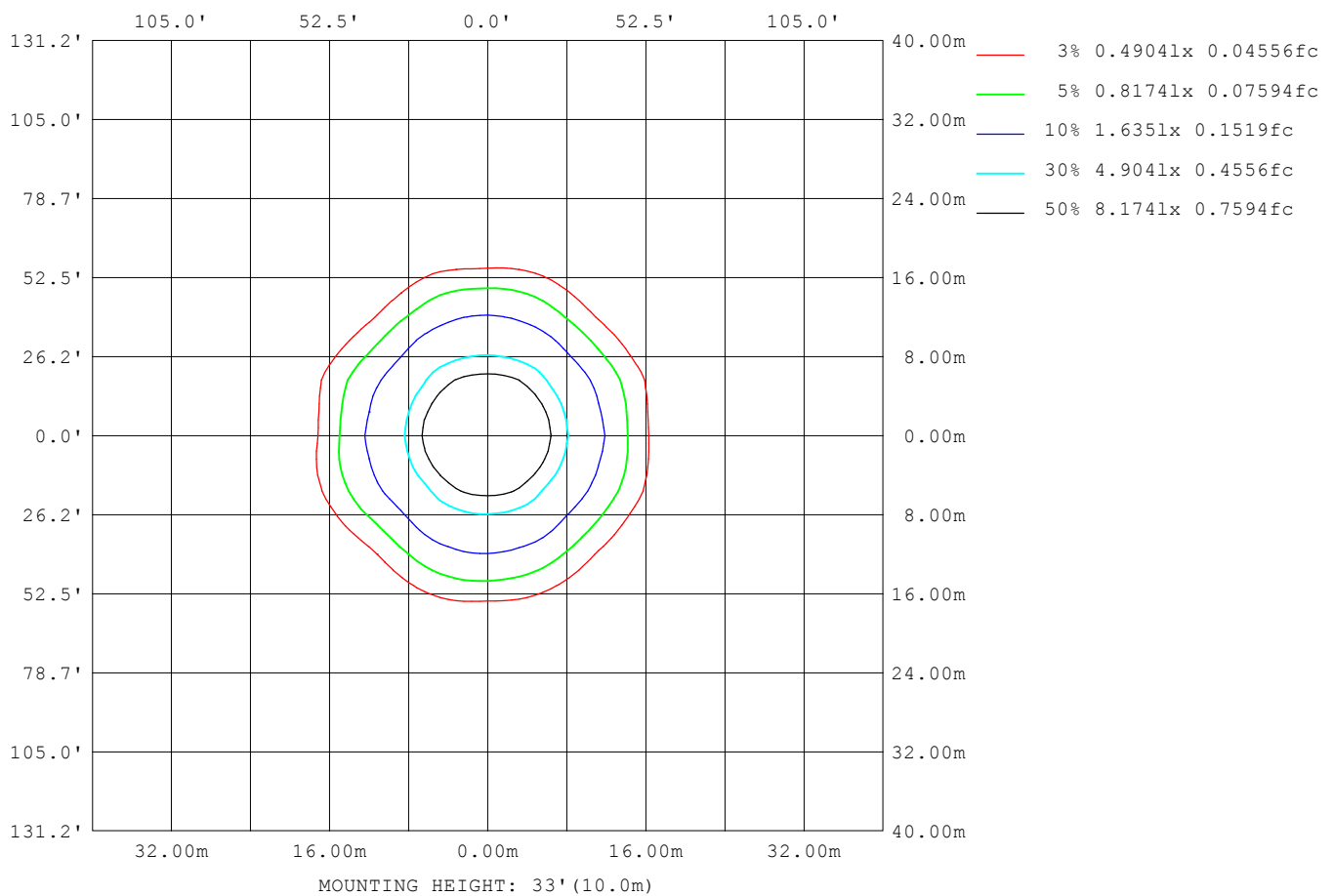
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(□) Range:-90 - 90DEG
 H(□) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:23 September 2021

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=1.1000]
 Remarks:

ISOLUX DIAGRAM

Test:U:221.23V I:0.1329A P:27.121W PF:0.9375 Freq:49.99Hz Lamp Flux:3528.78x1 lm		
NAME: GLM-SPL6060-27W-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:23 September 2021

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=1.1000]
Remarks:

LED Avg.L Report

Test:U:221.23V I:0.1329A P:27.121W PF:0.9375 Freq:49.99Hz Lamp Flux:3528.78x1 lm		
NAME: GLM-SPL6060-27W-D(RA90)	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

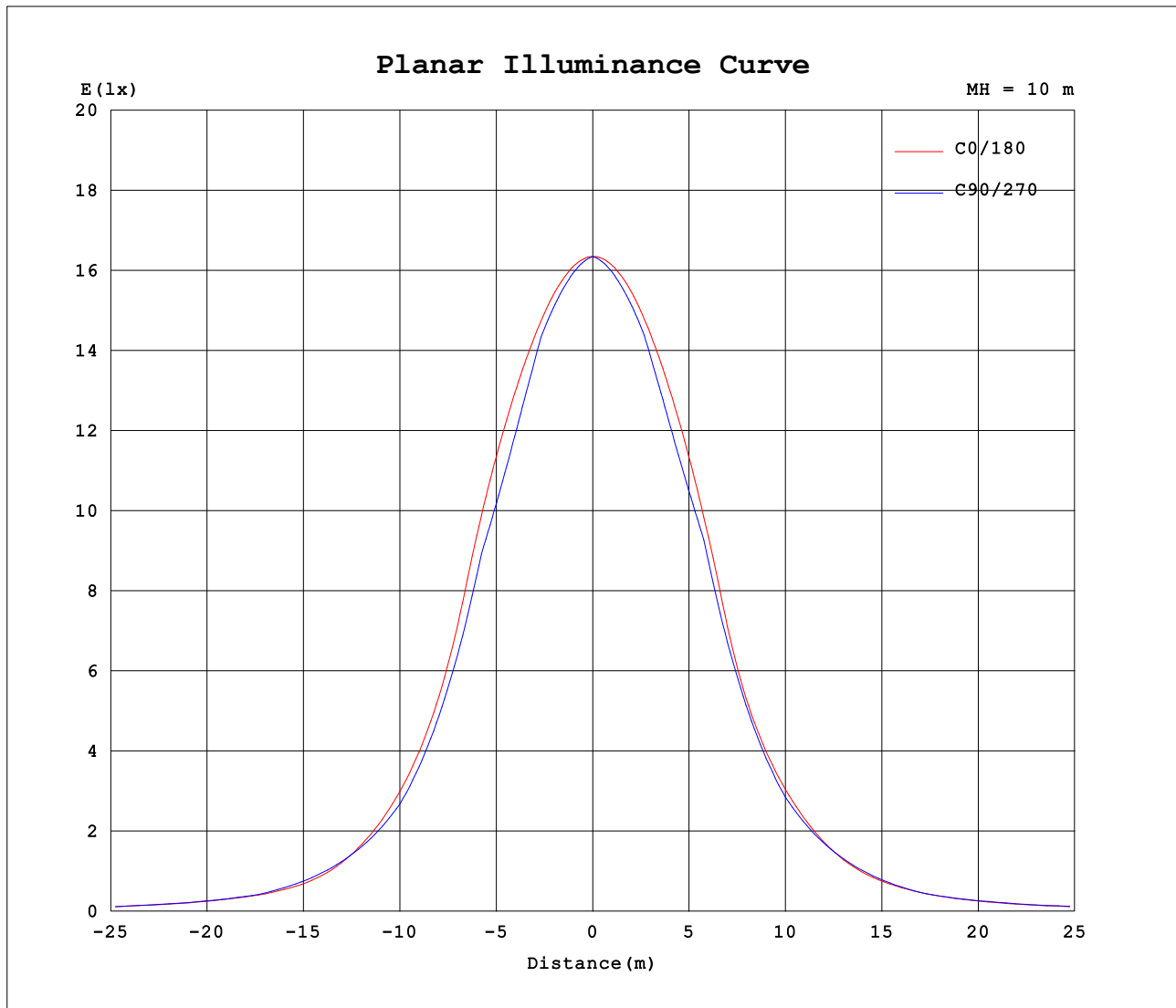
AvgL	cd/m2
L_0~180 (65) av	1935
L_0~180 (75) av	1969
L_0~180 (85) av	957
L_90~270 (65) av	2014
L_90~270 (75) av	1674
L_90~270 (85) av	0
L_45 (65) av	1762
L_45 (75) av	1396
L_45 (85) av	0

Standard: GB/T 29293-2012

H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:23 September 2021

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=1.1000]
Remarks:

Planar Illuminance Curve



H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:23 September 2021

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=1.1000]
Remarks:

