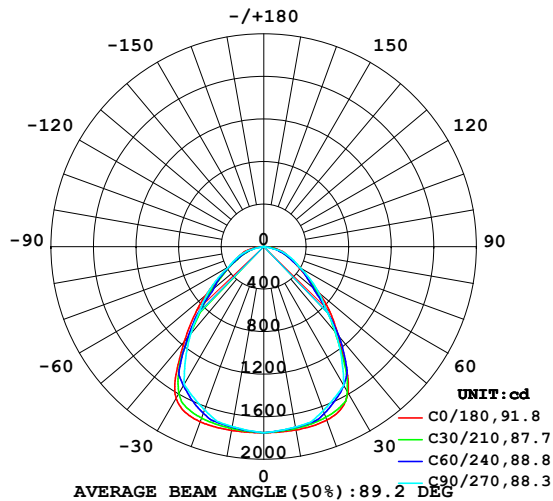


LUMINAIRE PHOTOMETRIC TEST REPORT

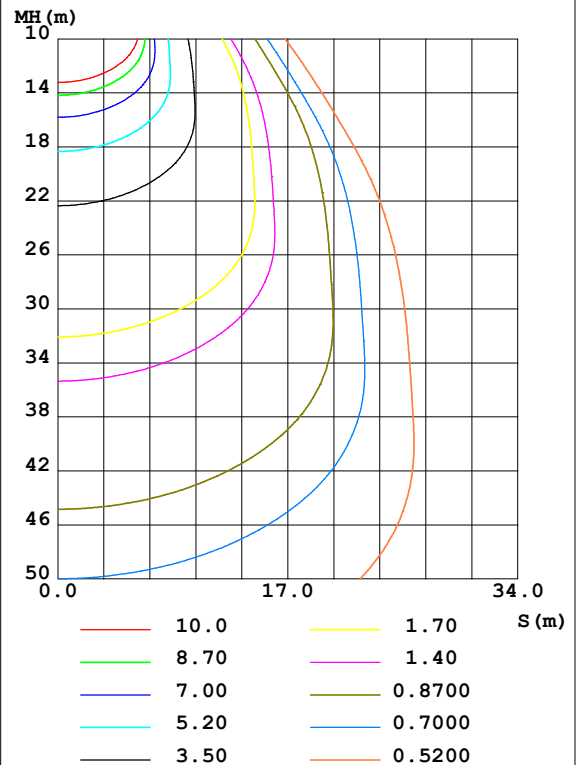
Test:U:221.52V I:0.1332A P:27.059W PF:0.9353 Freq:49.99Hz Lamp Flux:3790.58x1 lm		
NAME: GLM-SPL6060-27W-D	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 140.09 lm/W			
MODEL		I _{max} (cd)	1756	S/MH(C0/180)	1.28
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.23
RATED VOLTAGE(V)	220.0	TOTAL FLUX(lm)	3790.6	□ UP,DN(C0-180)	0.0,49.9
NOMINAL FLUX(lm)	3790.58	CIE CLASS	DIRECT	□ UP,DN(C180-360)	0.0,50.1
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=1.0800]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	1750	1729	1722	1732	1754	1728	1717	1726	0- 10	165.8	165.8	4.37,4.37
20	1736	1704	1640	1708	1751	1702	1633	1697	10- 20	486.1	651.9	17.2,17.2
30	1584	1508	1505	1518	1649	1526	1497	1503	20- 30	751.0	1403	37,37
40	1086	1030	1050	1082	1160	1104	1068	1029	30- 40	828.2	2231	58.9,58.9
50	684.7	590.9	676.5	607.1	713.3	622.7	695.2	588.9	40- 50	651.1	2882	76,76
60	370.7	345.9	383.4	342.9	362.5	349.5	378.5	344.0	50- 60	450.9	3333	87.9,87.9
70	232.6	206.0	239.5	198.5	234.7	188.9	231.8	198.2	60- 70	289.6	3623	95.6,95.6
80	110.3	65.66	0	63.62	111.3	58.44	0	63.65	70- 80	152.4	3775	99.6,99.6
90	0	0	0	0	0	0	0	0	80- 90	15.57	3791	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): 2584.8 lm

%lum = 68.2%

%lamp = 68.2%

Conical surface Flux(120deg): 3333.1 lm

%lum = 87.9%

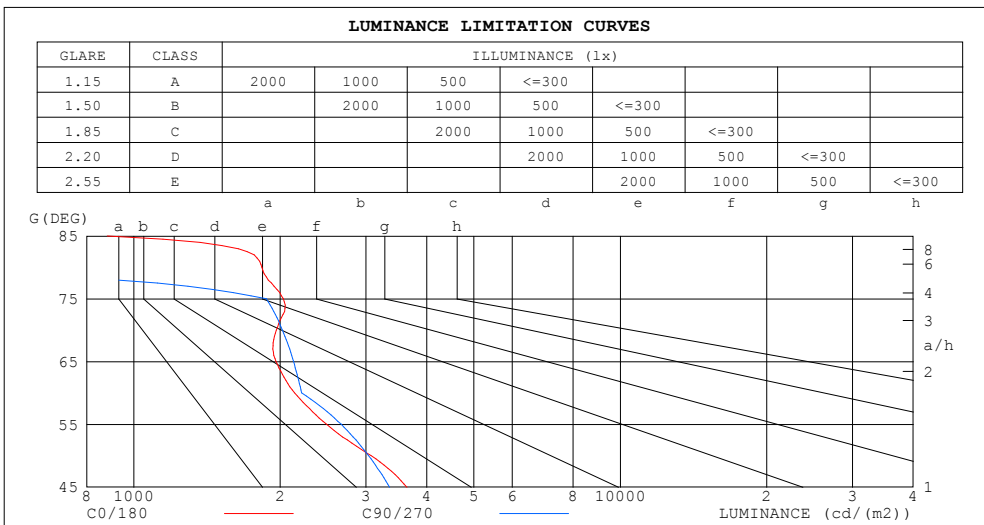
%lamp = 87.9%

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=1.0800]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:221.52V I:0.1332A P:27.059W PF:0.9353 Freq:49.99Hz Lamp Flux:3790.58x1 lm		
NAME: GLM-SPL6060-27W-D	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	882	0
80	1833	0
75	2029	1872
70	1964	2022
65	1960	2131
60	2141	2213
55	2490	2669
50	3075	3038
45	3641	3359

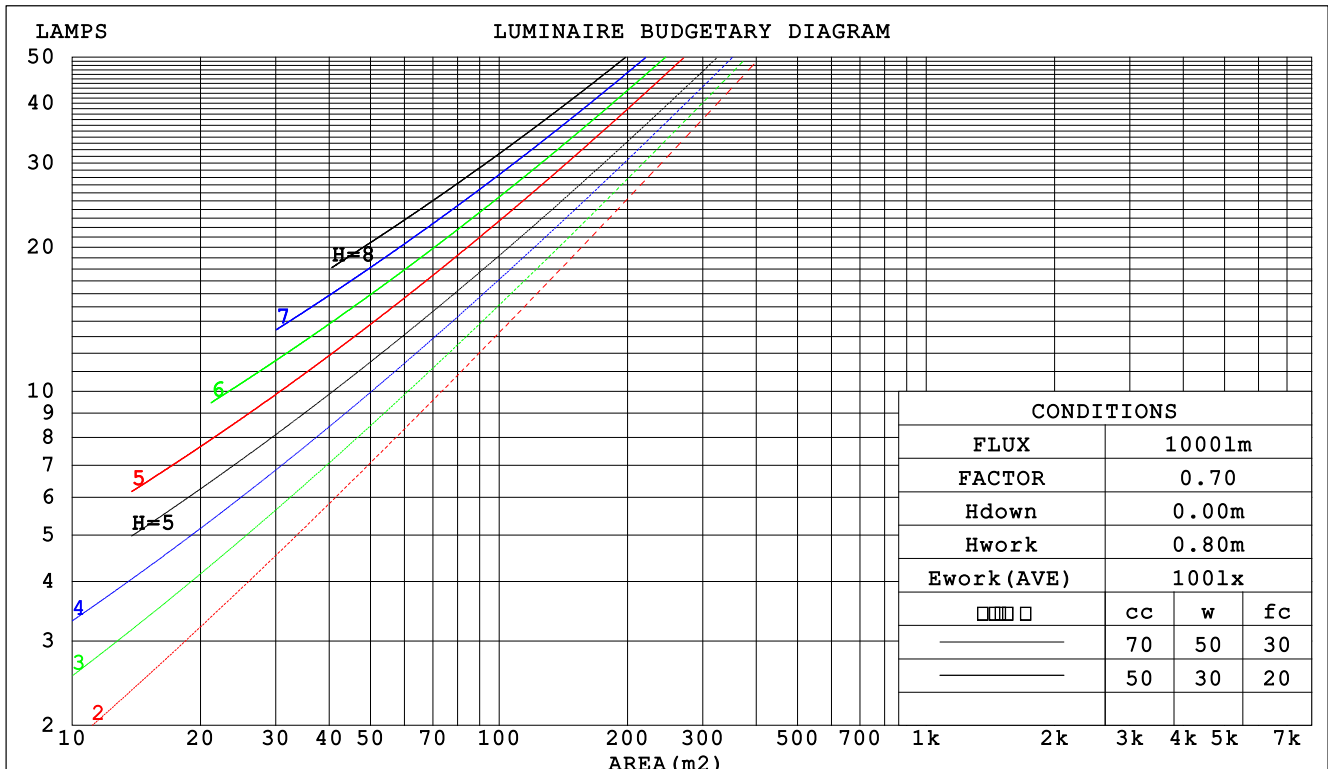
H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:23 September 2021

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=1.0800]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:221.52V I:0.1332A P:27.059W PF:0.9353 Freq:49.99Hz Lamp Flux:3790.58x1 lm		
NAME: GLM-SPL6060-27W-D	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 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	1.07	1.03	.00	1.04	1.01	.98	1.00	.98	.95	.96	.94	.92	.93	.91	.89	.87
2.0	.95	.89	.84	.93	.88	.83	.90	.85	.81	.86	.83	.79	.83	.80	.78	.76
3.0	.85	.78	.72	.83	.77	.71	.80	.75	.70	.78	.73	.69	.75	.71	.68	.66
4.0	.76	.69	.63	.75	.68	.62	.73	.66	.61	.70	.65	.61	.68	.64	.60	.58
5.0	.69	.61	.55	.68	.60	.55	.66	.59	.54	.64	.58	.54	.62	.57	.53	.51
6.0	.63	.55	.49	.62	.54	.49	.60	.53	.48	.59	.53	.48	.57	.52	.47	.46
7.0	.57	.49	.44	.57	.49	.44	.55	.48	.43	.54	.48	.43	.53	.47	.43	.41
8.0	.53	.45	.40	.52	.45	.39	.51	.44	.39	.50	.44	.39	.49	.43	.39	.37
9.0	.49	.41	.36	.48	.41	.36	.47	.40	.36	.46	.40	.36	.45	.39	.35	.34
10.0	.45	.38	.33	.45	.38	.33	.44	.37	.33	.43	.37	.33	.42	.36	.32	.31



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=1.0800]

Remarks:

WEC AND CCEC

Test:U:221.52V I:0.1332A P:27.059W PF:0.9353 Freq:49.99Hz Lamp Flux:3790.58x1 lm					
NAME: GLM-SPL6060-27W-D			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	.046	.251	.143	.045	.238	.137	.044	.226	.130	.042	.215	.125	.040		
2.0	.249	.137	.042	.243	.134	.041	.232	.129	.040	.221	.124	.039	.212	.120	.038		
3.0	.235	.125	.037	.230	.123	.037	.220	.119	.036	.210	.115	.035	.202	.112	.035		
4.0	.220	.114	.034	.215	.113	.033	.207	.110	.033	.198	.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	.189	.096	.028	.183	.094	.027	.176	.092	.027	.170	.090	.027		
7.0	.181	.090	.025	.178	.089	.025	.172	.087	.025	.166	.085	.025	.161	.084	.025		
8.0	.171	.083	.023	.168	.083	.023	.162	.081	.023	.157	.080	.023	.152	.078	.023		
9.0	.161	.078	.022	.159	.077	.022	.154	.076	.022	.149	.075	.021	.145	.073	.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	.019	.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	.044	.026	.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: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=1.0800]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:221.52V I:0.1332A P:27.059W PF:0.9353 Freq:49.99Hz Lamp Flux:3790.58x1 lm										
NAME: GLM-SPL6060-27W-D					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	15.6	16.9	15.8	17.1	17.3	15.5	16.9	15.8	17.1	17.3
3H	16.6	17.8	16.9	18.1	18.3	16.7	17.9	16.9	18.1	18.4
4H	17.1	18.3	17.4	18.6	18.8	17.1	18.3	17.4	18.5	18.8
6H	17.5	18.6	17.8	18.9	19.1	17.2	18.3	17.5	18.5	18.8
8H	17.6	18.7	17.9	18.9	19.2	17.1	18.2	17.4	18.5	18.7
12H	17.6	18.6	17.9	18.9	19.2	17.1	18.1	17.4	18.4	18.7
4H 2H	15.9	17.0	16.2	17.3	17.5	15.8	17.0	16.1	17.2	17.5
3H	17.1	18.1	17.4	18.4	18.7	17.1	18.1	17.5	18.4	18.7
4H	17.7	18.7	18.1	19.0	19.3	17.7	18.6	18.1	19.0	19.3
6H	18.2	19.0	18.6	19.4	19.7	17.8	18.6	18.2	19.0	19.3
8H	18.3	19.1	18.7	19.5	19.8	17.7	18.5	18.2	18.9	19.2
12H	18.4	19.1	18.8	19.4	19.8	17.7	18.4	18.1	18.8	19.2
8H 4H	17.9	18.6	18.3	19.0	19.4	17.8	18.6	18.2	19.0	19.3
6H	18.5	19.1	18.9	19.5	19.9	17.9	18.6	18.4	19.0	19.4
8H	18.6	19.2	19.1	19.6	20.1	17.9	18.5	18.4	18.9	19.3
12H	18.7	19.2	19.2	19.6	20.1	17.9	18.3	18.3	18.8	19.3
12H 4H	17.8	18.5	18.2	18.9	19.3	17.8	18.5	18.2	18.9	19.3
6H	18.4	19.0	18.9	19.4	19.9	17.9	18.5	18.4	18.9	19.4
8H	18.6	19.1	19.1	19.6	20.0	17.9	18.4	18.4	18.8	19.3
Variations with the observer position at spacings:										
S = 1.0H	+ 0.4 / - 0.5					+ 0.5 / - 0.5				
1.5H	+ 0.2 / - 0.2					+ 0.3 / - 0.3				
2.0H	+ 0.8 / - 0.8					+ 0.7 / - 0.7				

CIE Pub.117, 3791 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 4.6$)

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=1.0800]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:221.52V I:0.1332A P:27.059W PF:0.9353 Freq:49.99Hz Lamp Flux:3790.58x1 lm		
NAME: GLM-SPL6060-27W-D	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

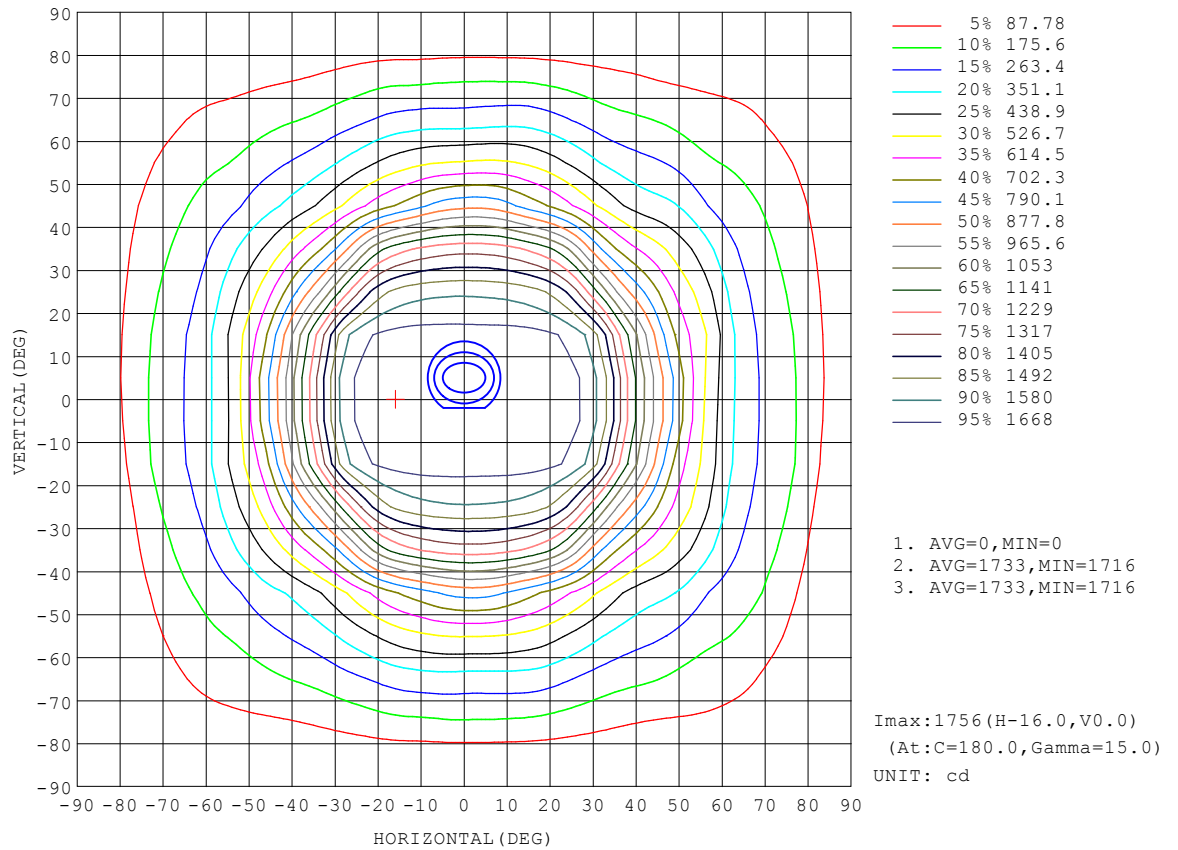
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	66	56	50	65	56	50	64	55	49	44
0.80	76	66	59	75	65	59	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	88	98	92	87	95	90	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: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=1.0800]
Remarks:

ISOCANDELA DIAGRAM

Test:U:221.52V I:0.1332A P:27.059W PF:0.9353 Freq:49.99Hz Lamp Flux:3790.58x1 lm		
NAME: GLM-SPL6060-27W-D	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

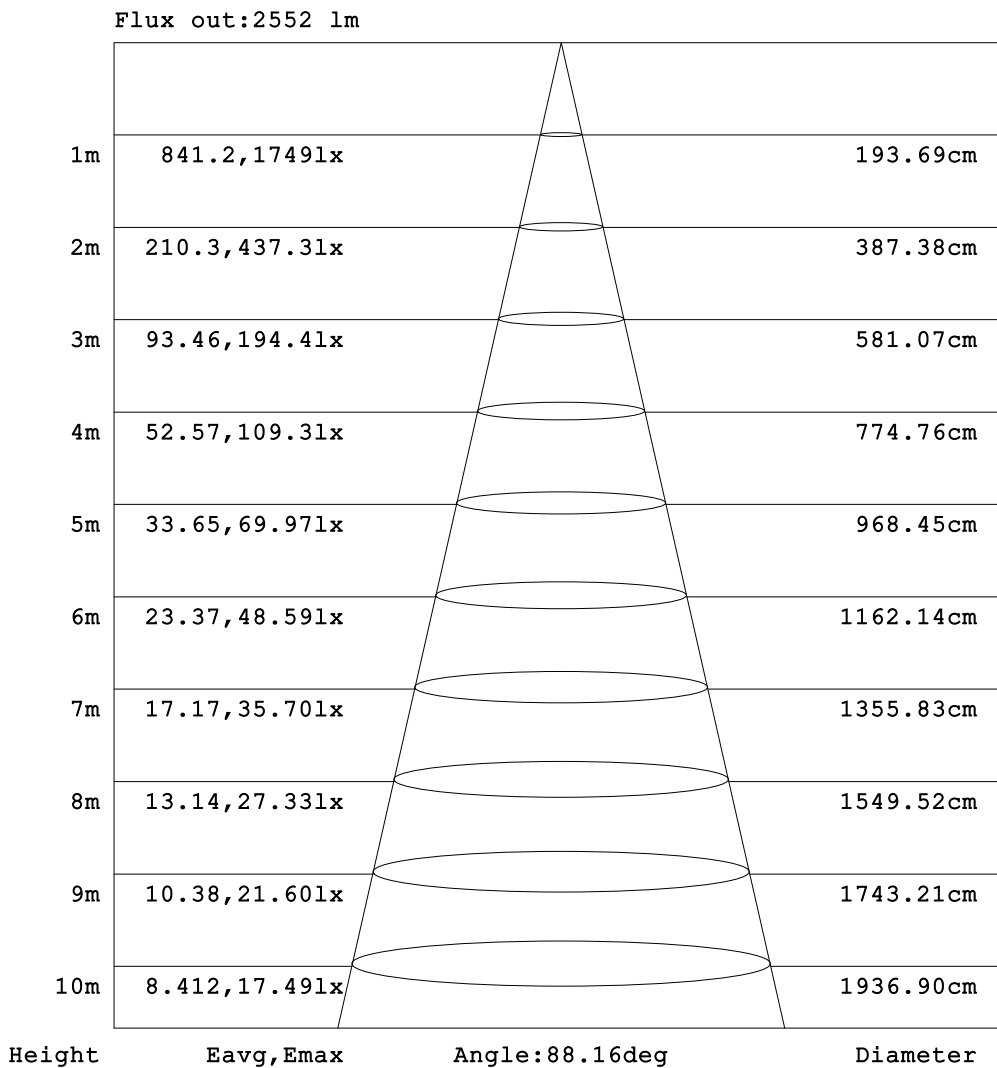


H(□) Range:-90 - 90DEG
 H(□) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:23 September 2021

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=1.0800]
 Remarks:

AAI Figure

Test:U:221.52V I:0.1332A P:27.059W PF:0.9353 Freq:49.99Hz Lamp Flux:3790.58x1 lm		
NAME: GLM-SPL6060-27W-D	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:



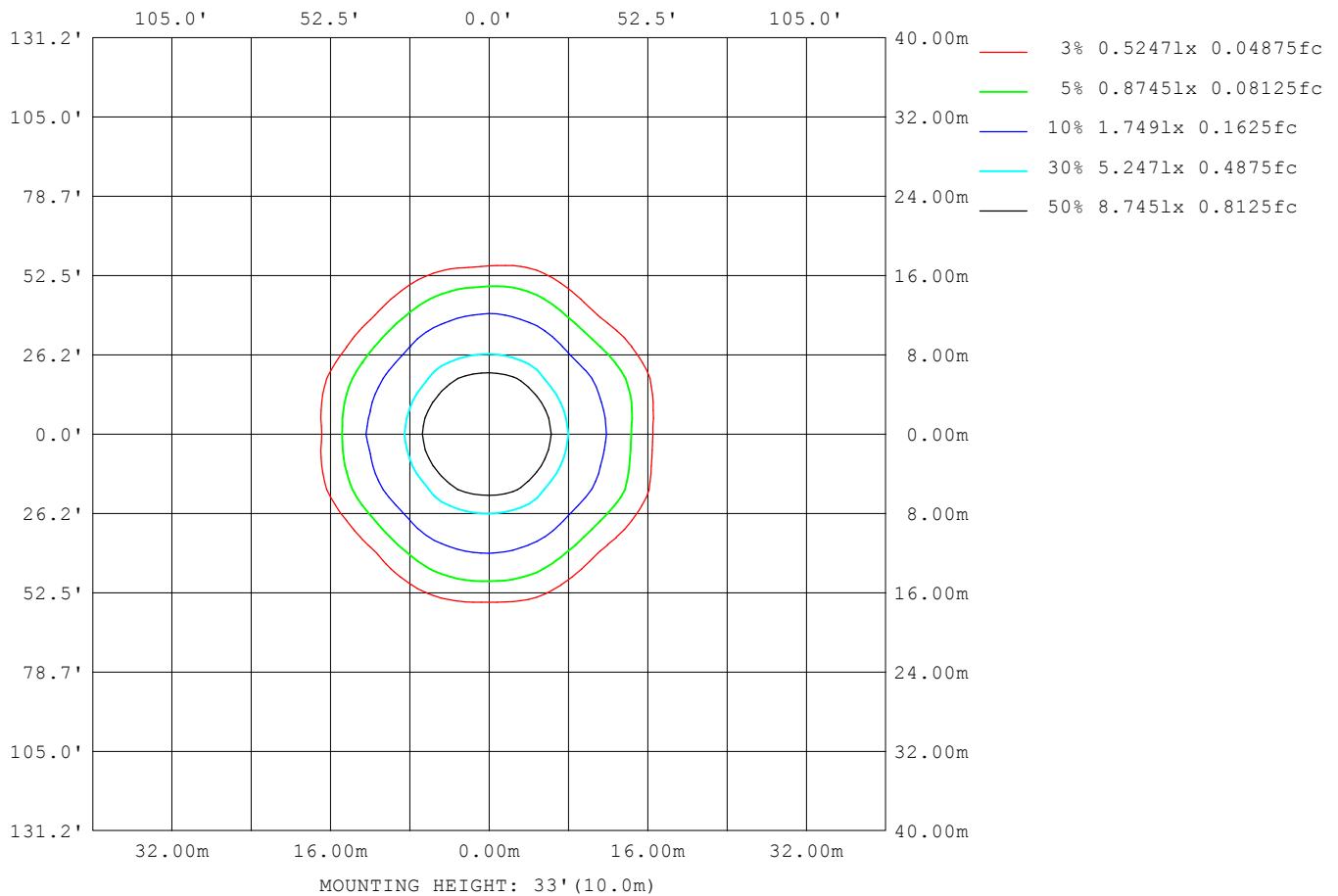
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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=1.0800]
Remarks:

ISOLUX DIAGRAM

Test:U:221.52V I:0.1332A P:27.059W PF:0.9353 Freq:49.99Hz Lamp Flux:3790.58x1 lm		
NAME: GLM-SPL6060-27W-D	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=1.0800]
Remarks:

LED Avg.L Report

Test:U:221.52V I:0.1332A P:27.059W PF:0.9353 Freq:49.99Hz Lamp Flux:3790.58x1 lm		
NAME: GLM-SPL6060-27W-D	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

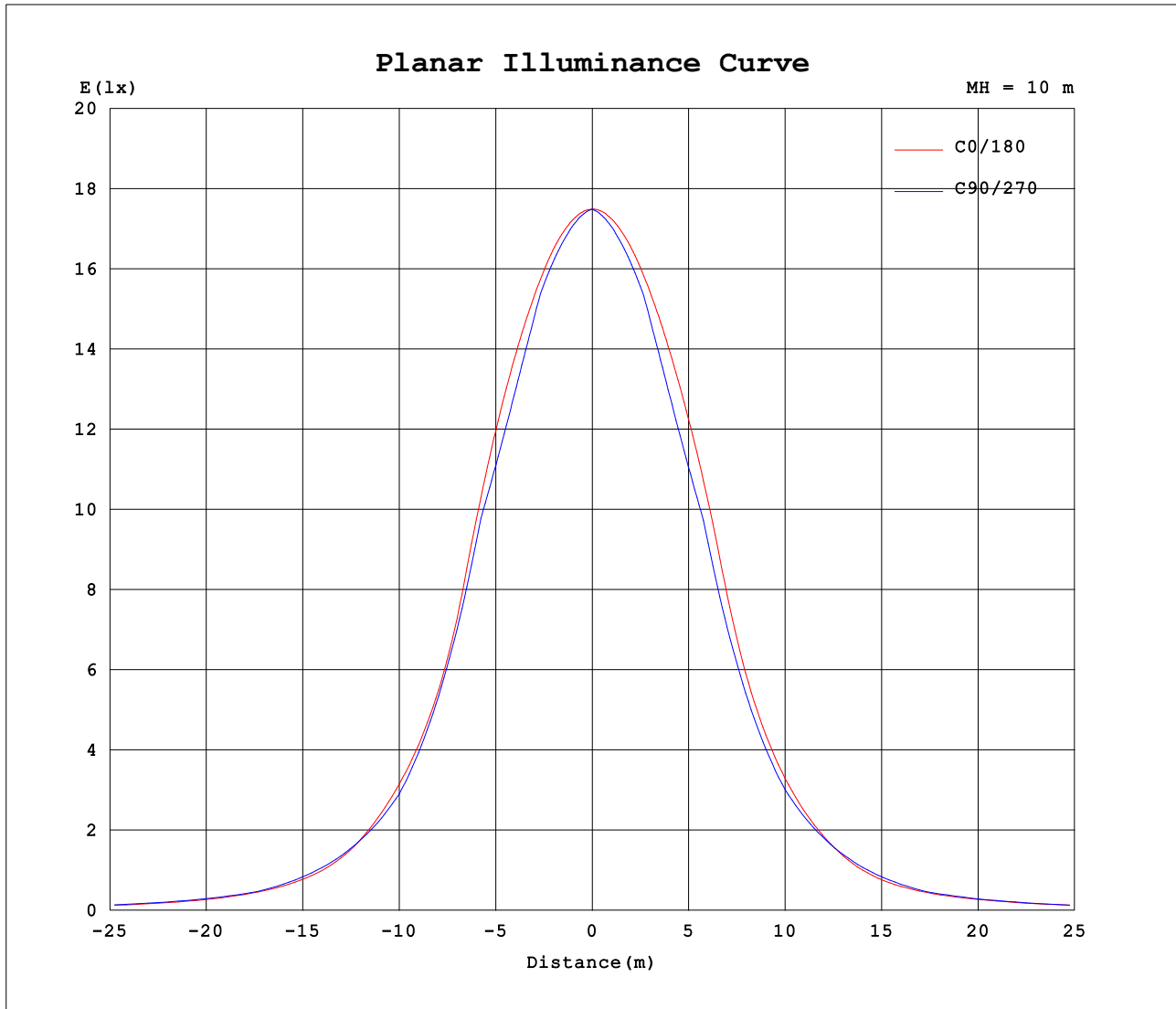
AvgL	cd/m2
L_0~180 (65) av	1977
L_0~180 (75) av	2047
L_0~180 (85) av	987
L_90~270 (65) av	2104
L_90~270 (75) av	1819
L_90~270 (85) av	0
L_45 (65) av	1824
L_45 (75) av	1482
L_45 (85) av	0

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=1.0800]
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=1.0800]
Remarks:

