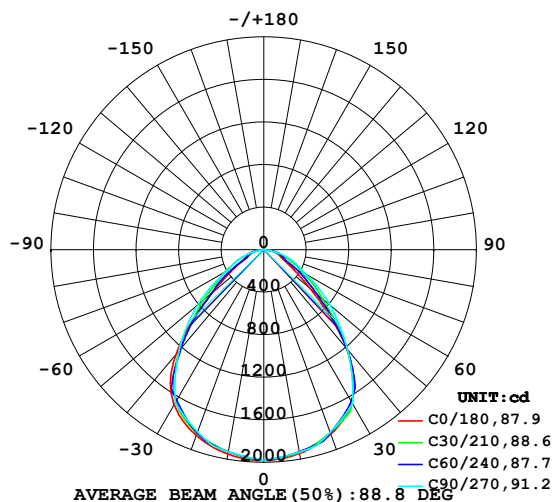


LUMINAIRE PHOTOMETRIC TEST REPORT

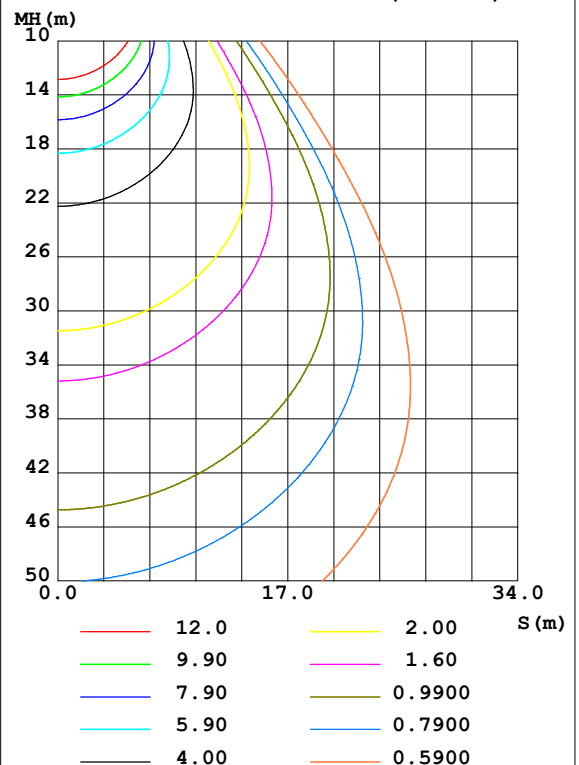
Test:U:218.96V I:0.1337A P:27.108W PF:0.9439 Freq:49.99Hz Lamp Flux:4069.49x1 lm		
NAME: GLM-BPL6060A-27W-C	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 150.12 lm/W			
MODEL		Imax(cd)	1981	S/MH(C0/180)	1.25
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.23
RATED VOLTAGE(V)	220.0	TOTAL FLUX(lm)	4069.5	□ UP,DN(C0-180)	0.0,50.4
NOMINAL FLUX(lm)	4069.49	CIE CLASS	DIRECT	□ UP,DN(C180-360)	0.0,49.6
LAMPS INSIDE	1	□ up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	220	□ down(%)	100.0	CIBSE SHR MAX	1.30

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:20 October 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	1945	1930	1932	1930	1952	1928	1928	1928	0- 10	186.3	186.3	4.58,4.58
20	1845	1851	1828	1847	1859	1840	1823	1845	10- 20	534.7	721.0	17.7,17.7
30	1654	1625	1670	1639	1685	1628	1665	1627	20- 30	807.3	1528	37.6,37.6
40	1210	1240	1224	1299	1282	1282	1241	1260	30- 40	915.9	2444	60.1,60.1
50	569.2	678.3	813.4	730.7	636.0	708.2	814.6	693.8	40- 50	736.2	3180	78.2,78.2
60	255.0	386.2	438.1	405.4	275.5	384.4	386.3	383.8	50- 60	458.6	3639	89.4,89.4
70	161.8	228.6	264.4	230.5	165.5	213.7	224.1	213.4	60- 70	265.6	3905	95.9,95.9
80	76.20	95.02	0	94.74	87.80	76.32	0	73.86	70- 80	151.2	4056	99.7,99.7
90	0	0	0	0	0	0	0	0	80- 90	13.72	4069	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): 2848.4 lm

%lum = 70.0%

%lamp = 70.0%

Conical surface Flux(120deg): 3639 lm

%lum = 89.4%

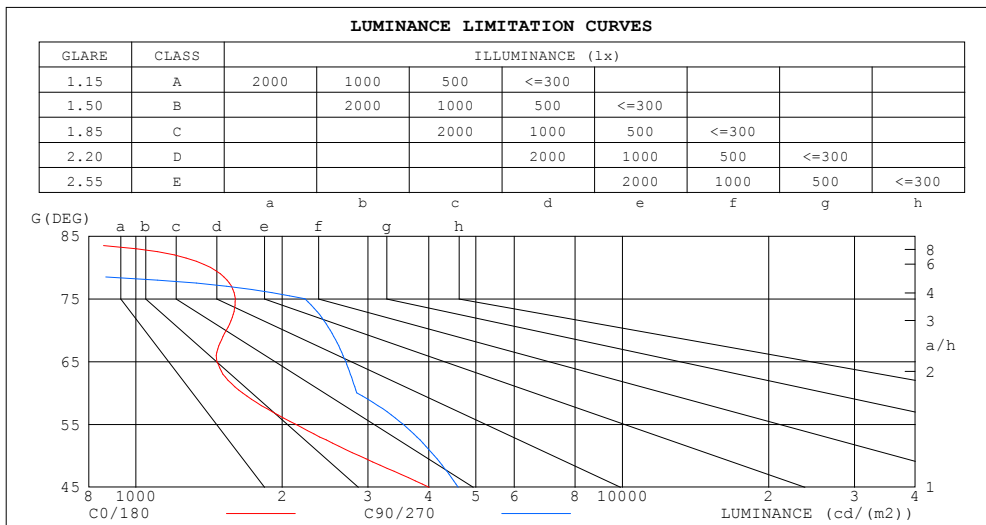
%lamp = 89.4%

H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:20 October 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:218.96V I:0.1337A P:27.108W PF:0.9439 Freq:49.99Hz Lamp Flux:4069.49x1 lm		
NAME: GLM-BPL6060A-27W-C	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	259	0
80	1425	0
75	1602	2226
70	1536	2510
65	1468	2701
60	1656	2845
55	2131	3545
50	2875	4109
45	4007	4599

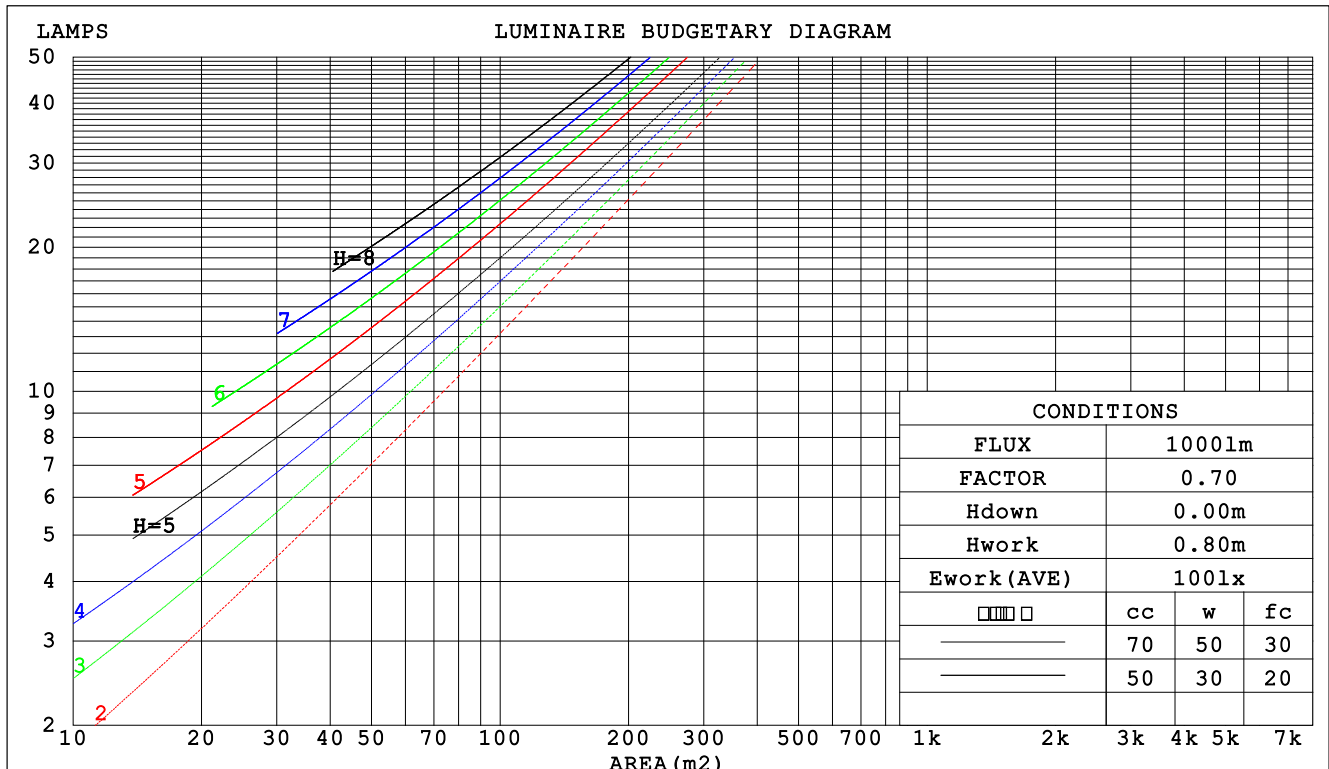
H() Range:-90 - 90DEG
H() Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:20 October 2021

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:218.96V I:0.1337A P:27.108W PF:0.9439 Freq:49.99Hz Lamp Flux:4069.49x1 lm		
NAME: GLM-BPL6060A-27W-C	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	1.00	1.05	1.01	.99	1.00	.98	.95	.97	.95	.93	.93	.91	.90	.88
2.0	.95	.90	.85	.94	.88	.84	.90	.86	.82	.87	.83	.80	.84	.81	.78	.76
3.0	.86	.78	.73	.84	.78	.72	.81	.76	.71	.79	.74	.70	.76	.72	.69	.67
4.0	.77	.69	.64	.76	.69	.63	.73	.67	.62	.71	.66	.61	.69	.64	.61	.59
5.0	.70	.62	.56	.69	.61	.56	.67	.60	.55	.65	.59	.55	.63	.58	.54	.52
6.0	.64	.56	.50	.63	.55	.50	.61	.54	.49	.59	.53	.49	.58	.53	.48	.47
7.0	.58	.50	.45	.57	.50	.45	.56	.49	.44	.55	.48	.44	.53	.48	.44	.42
8.0	.53	.46	.40	.53	.45	.40	.52	.45	.40	.50	.44	.40	.49	.44	.40	.38
9.0	.49	.42	.37	.49	.42	.37	.48	.41	.36	.47	.41	.36	.46	.40	.36	.34
10.0	.46	.38	.34	.45	.38	.33	.44	.38	.33	.43	.37	.33	.43	.37	.33	.31



H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:20 October 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:218.96V I:0.1337A P:27.108W PF:0.9439 Freq:49.99Hz Lamp Flux:4069.49x1 lm		
NAME: GLM-BPL6060A-27W-C	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	.252 .144 .045	.245 .140 .044	.232 .133 .043	.221 .127 .041	.210 .121 .039	
2.0	.244 .134 .041	.238 .131 .040	.227 .126 .039	.216 .121 .038	.207 .117 .037	
3.0	.231 .123 .037	.225 .121 .036	.215 .117 .035	.206 .113 .035	.198 .110 .034	
4.0	.216 .112 .033	.212 .111 .033	.203 .108 .032	.195 .105 .032	.188 .102 .031	
5.0	.203 .103 .030	.199 .102 .030	.191 .100 .029	.184 .097 .029	.177 .095 .028	
6.0	.191 .096 .027	.187 .095 .027	.180 .092 .027	.174 .090 .027	.168 .088 .026	
7.0	.179 .089 .025	.176 .088 .025	.170 .086 .025	.164 .084 .025	.159 .083 .024	
8.0	.169 .083 .023	.166 .082 .023	.161 .080 .023	.156 .079 .023	.151 .077 .023	
9.0	.160 .077 .022	.157 .077 .022	.152 .075 .021	.148 .074 .021	.143 .073 .021	
10.0	.151 .073 .020	.149 .072 .020	.145 .071 .020	.140 .070 .020	.136 .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	.176 .157 .139	.151 .134 .120	.103 .092 .083	.059 .054 .048	.019 .017 .016	
2.0	.166 .132 .104	.142 .114 .090	.097 .079 .063	.056 .046 .037	.018 .015 .012	
3.0	.157 .114 .080	.134 .098 .069	.092 .068 .049	.053 .040 .029	.017 .013 .009	
4.0	.149 .100 .063	.128 .087 .055	.088 .060 .039	.051 .035 .023	.016 .012 .008	
5.0	.141 .089 .051	.121 .077 .045	.084 .054 .031	.048 .032 .019	.016 .010 .006	
6.0	.134 .081 .042	.116 .070 .037	.080 .049 .026	.046 .029 .016	.015 .009 .005	
7.0	.128 .074 .036	.110 .064 .031	.076 .045 .022	.044 .026 .013	.014 .009 .004	
8.0	.122 .068 .031	.105 .059 .027	.073 .041 .019	.042 .024 .011	.014 .008 .004	
9.0	.117 .063 .027	.100 .055 .023	.070 .038 .017	.041 .023 .010	.013 .007 .003	
10.0	.111 .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:20 October 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:218.96V I:0.1337A P:27.108W PF:0.9439 Freq:49.99Hz Lamp Flux:4069.49x1 lm										
NAME: GLM-BPL6060A-27W-C					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	15.7	17.1	16.0	17.2	17.4	16.1	17.4	16.3	17.6	17.8
3H	16.5	17.7	16.7	17.9	18.1	17.1	18.3	17.4	18.5	18.8
4H	16.8	18.0	17.1	18.2	18.5	17.6	18.7	17.9	19.0	19.2
6H	17.1	18.2	17.4	18.4	18.7	17.6	18.7	18.0	19.0	19.3
8H	17.1	18.1	17.4	18.4	18.7	17.6	18.6	17.9	18.9	19.2
12H	17.0	18.0	17.4	18.3	18.6	17.5	18.5	17.9	18.8	19.1
4H 2H	16.1	17.2	16.4	17.5	17.7	16.3	17.5	16.6	17.7	18.0
3H	17.1	18.1	17.4	18.4	18.7	17.5	18.5	17.8	18.8	19.1
4H	17.6	18.6	18.0	18.9	19.2	18.1	19.0	18.5	19.3	19.7
6H	18.0	18.8	18.4	19.2	19.5	18.2	19.0	18.6	19.4	19.7
8H	18.0	18.8	18.4	19.1	19.5	18.2	18.9	18.6	19.3	19.7
12H	18.0	18.7	18.4	19.1	19.5	18.1	18.8	18.5	19.2	19.6
8H 4H	17.9	18.6	18.3	19.0	19.4	18.3	19.1	18.7	19.4	19.8
6H	18.4	19.0	18.8	19.4	19.8	18.5	19.1	18.9	19.5	19.9
8H	18.5	19.1	19.0	19.5	19.9	18.4	19.0	18.9	19.4	19.8
12H	18.5	19.0	19.0	19.4	19.9	18.4	18.8	18.8	19.3	19.8
12H 4H	17.9	18.5	18.3	18.9	19.3	18.3	19.0	18.7	19.4	19.8
6H	18.4	18.9	18.9	19.4	19.8	18.5	19.0	18.9	19.4	19.9
8H	18.5	19.0	19.0	19.4	19.9	18.4	18.9	18.9	19.3	19.8
Variations with the observer position at spacings:										
S = 1.0H	+ 0.5 / - 0.7					+ 0.4 / - 0.5				
1.5H	+ 0.4 / - 1.0					+ 0.4 / - 0.7				
2.0H	+ 1.0 / - 1.6					+ 1.1 / - 1.5				

CIE Pub.117, 4069 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 4.9$)

H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:20 October 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:218.96V I:0.1337A P:27.108W PF:0.9439 Freq:49.99Hz Lamp Flux:4069.49x1 lm		
NAME: GLM-BPL6060A-27W-C	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

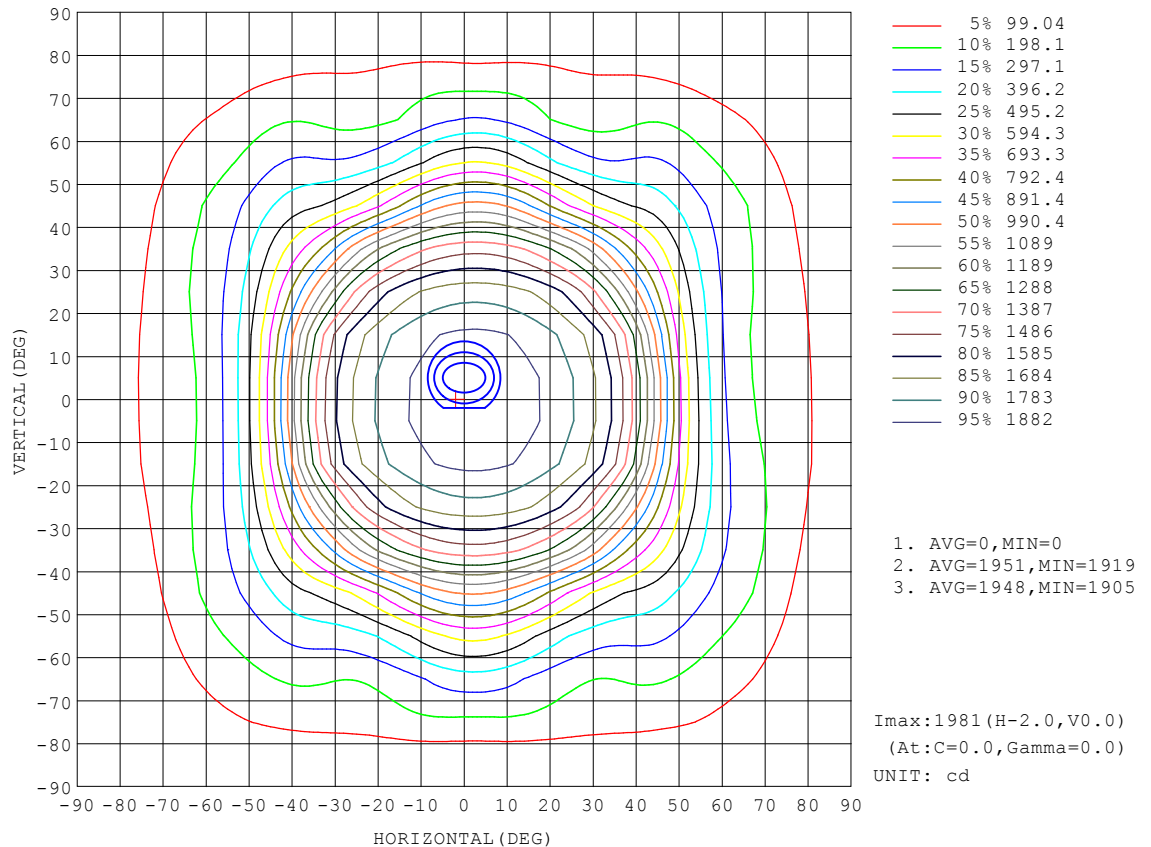
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	67	57	51	66	56	50	65	56	50	45
0.80	76	67	60	75	66	60	74	65	60	54
1.00	84	75	69	83	74	69	81	75	68	62
1.25	90	82	76	89	81	76	87	80	75	69
1.50	95	87	81	93	86	81	91	84	80	73
2.00	100	94	88	99	92	88	96	90	86	79
2.50	103	97	92	102	96	91	98	93	90	82
3.00	106	101	96	104	99	95	100	96	93	85
4.00	109	105	101	107	103	100	103	100	97	89
5.00	111	107	104	109	105	103	105	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:20 October 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:218.96V I:0.1337A P:27.108W PF:0.9439 Freq:49.99Hz Lamp Flux:4069.49x1 lm		
NAME: GLM-BPL6060A-27W-C	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

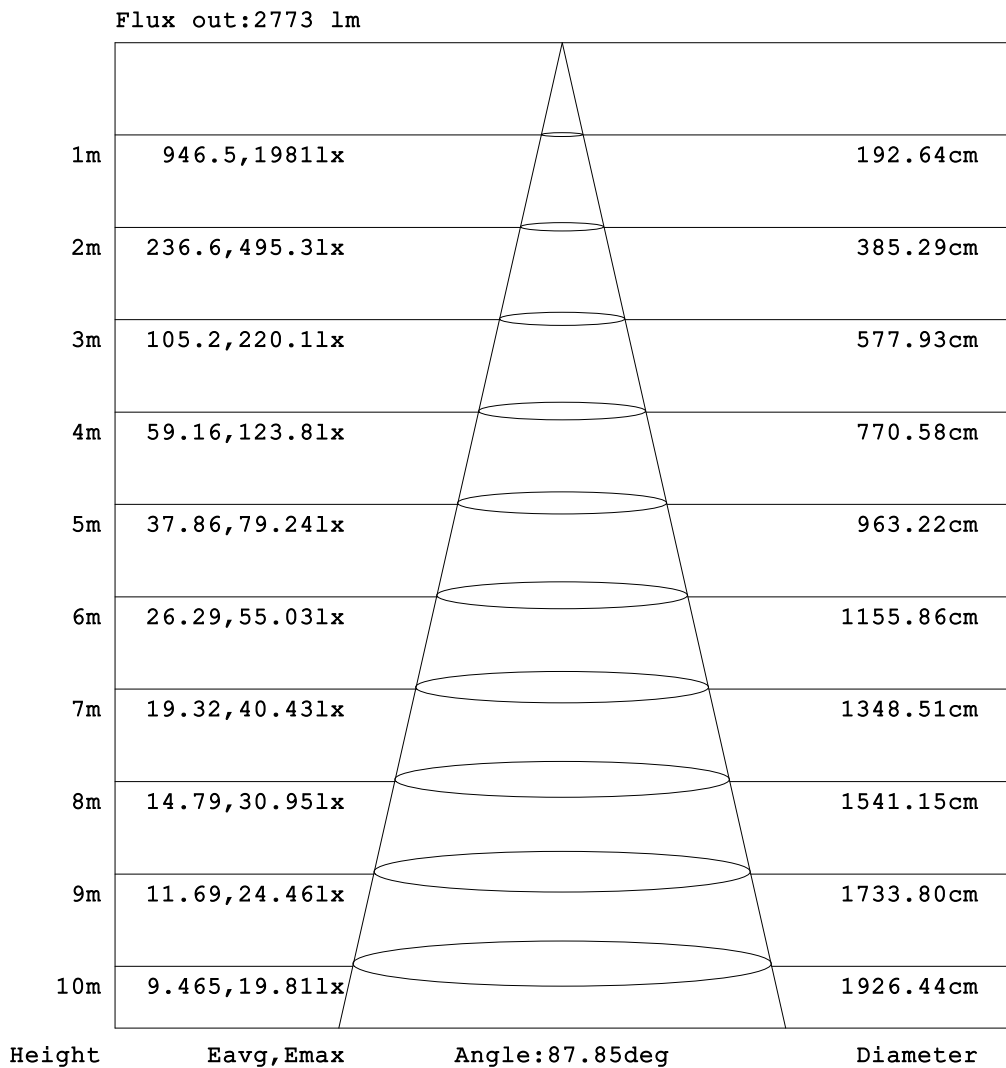


H() Range:-90 - 90DEG
H() Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:20 October 2021

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:218.96V I:0.1337A P:27.108W PF:0.9439 Freq:49.99Hz Lamp Flux:4069.49x1 lm		
NAME: GLM-BPL6060A-27W-C	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:



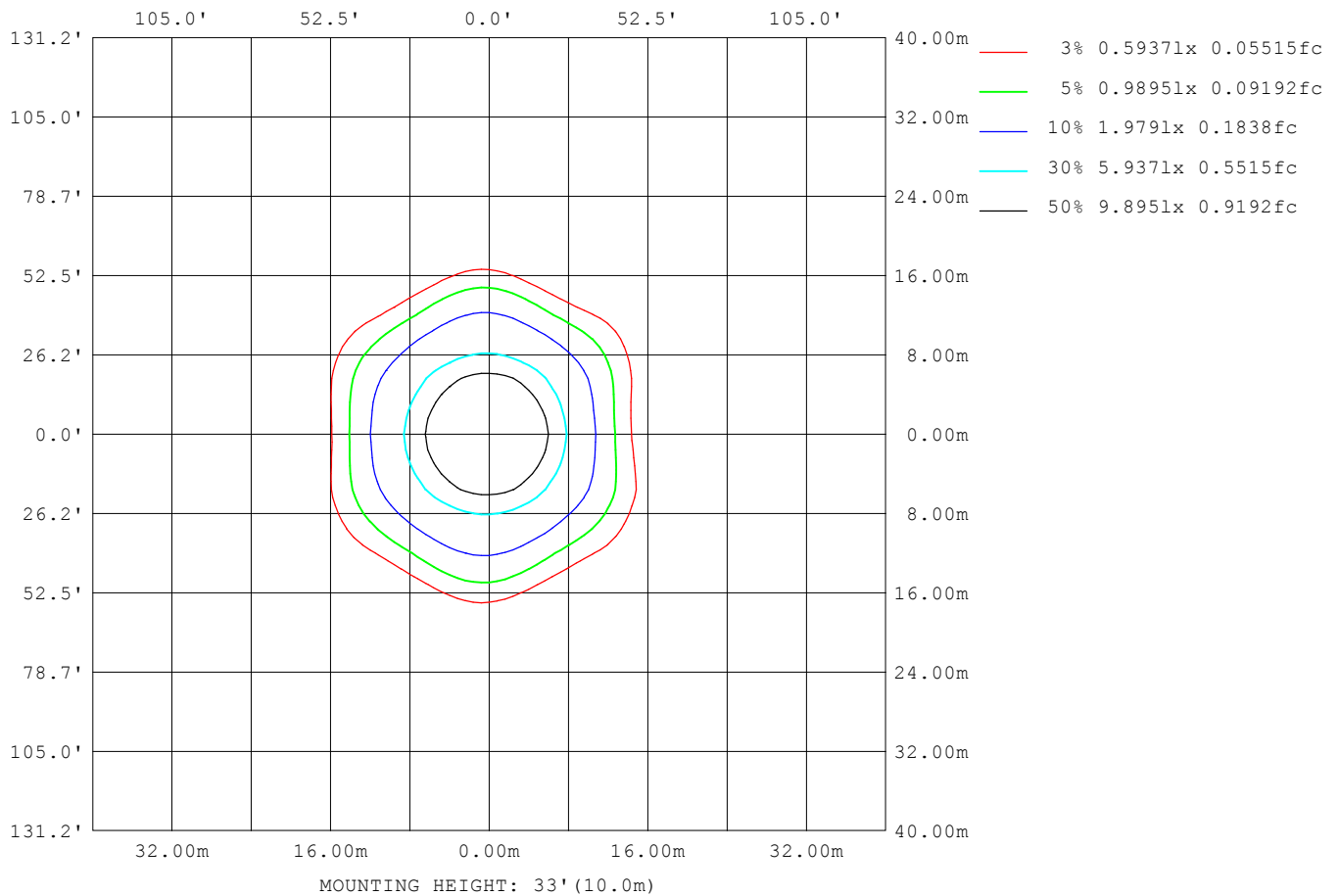
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(□) Range:-90 - 90DEG
 H(□) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:20 October 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:218.96V I:0.1337A P:27.108W PF:0.9439 Freq:49.99Hz Lamp Flux:4069.49x1 lm		
NAME: GLM-BPL6060A-27W-C	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:20 October 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:218.96V I:0.1337A P:27.108W PF:0.9439 Freq:49.99Hz Lamp Flux:4069.49x1 lm		
NAME: GLM-BPL6060A-27W-C	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

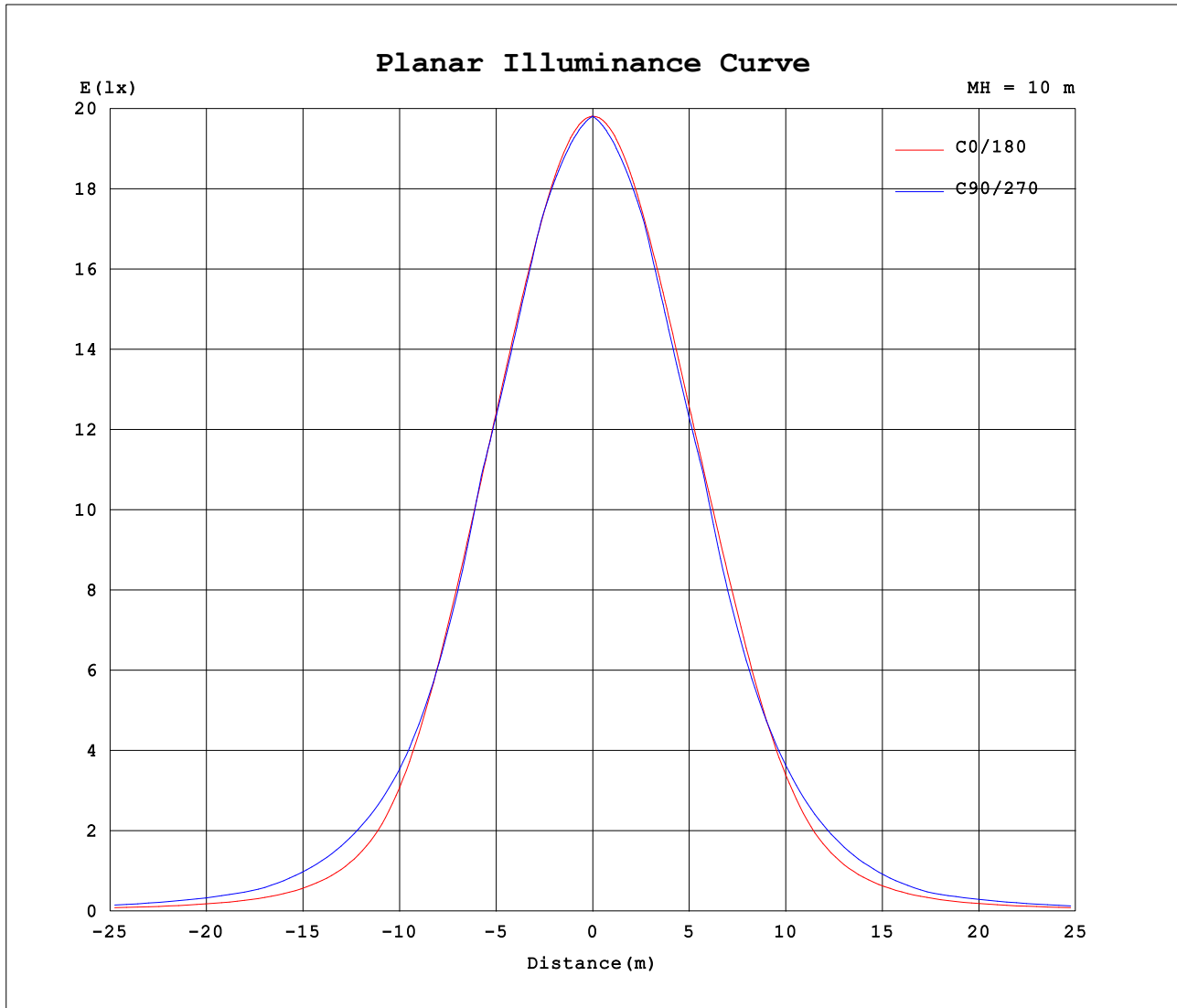
AvgL	cd/m2
L_0~180 (65) av	1491
L_0~180 (75) av	1645
L_0~180 (85) av	477
L_90~270 (65) av	2522
L_90~270 (75) av	2011
L_90~270 (85) av	0
L_45 (65) av	2271
L_45 (75) av	2018
L_45 (85) av	0

Standard: GB/T 29293-2012

H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:20 October 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:20 October 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:

