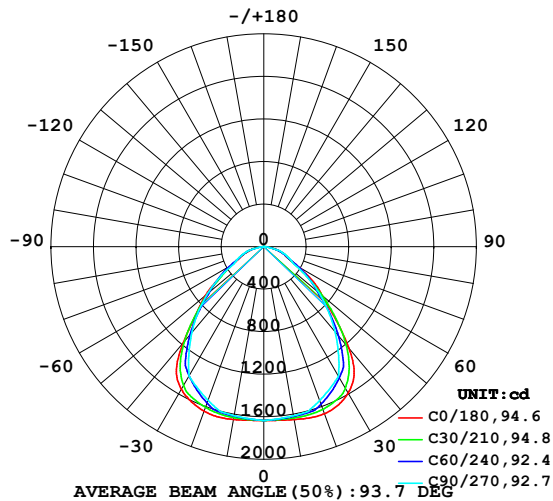


LUMINAIRE PHOTOMETRIC TEST REPORT

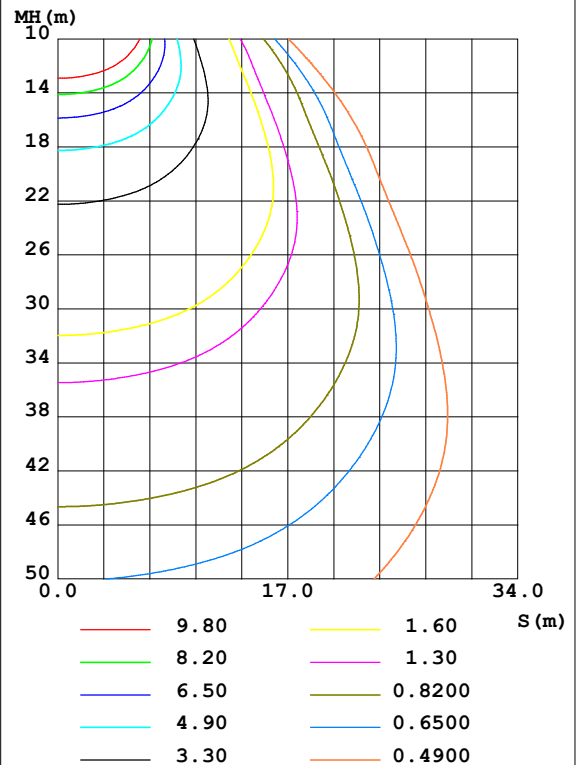
Test:U:220.21V I:0.1454A P:31.186W PF:0.9543 Freq:49.99Hz Lamp Flux:3753.01x1 lm		
NAME: MGL2075	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 120.34 lm/W			
MODEL		I _{max} (cd)	1672	S/MH (C0/180)	1.30
NOMINAL POWER(W)		LOR(%)	100.0	S/MH (C90/270)	1.25
RATED VOLTAGE(V)	230.0	TOTAL FLUX (lm)	3753.0	□ UP, DN (C0-180)	0.0, 50.0
NOMINAL FLUX (lm)	3753.01	CIE CLASS	DIRECT	□ UP, DN (C180-360)	0.0, 50.0
LAMPS INSIDE	1	□ up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	230	□ down (%)	100.0	CIBSE SHR MAX	1.35

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:17 November 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=1.0667]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	1651	1628	1615	1625	1650	1624	1613	1625	0- 10	155.5	155.5	4.14, 4.14
20	1671	1615	1539	1600	1646	1597	1537	1612	10- 20	458.6	614.1	16.4, 16.4
30	1589	1459	1407	1434	1550	1436	1407	1464	20- 30	710.4	1324	35.3, 35.3
40	1247	1177	1042	1161	1175	1165	1052	1205	30- 40	830.3	2155	57.4, 57.4
50	720.1	734.7	680.9	707.3	719.1	707.5	691.6	749.0	40- 50	703.6	2858	76.2, 76.2
60	363.1	392.9	324.2	387.4	340.7	381.2	325.6	408.0	50- 60	469.9	3328	88.7, 88.7
70	207.1	209.8	208.6	204.1	190.5	193.4	206.1	205.1	60- 70	273.9	3602	96, 96
80	67.88	66.59	0	78.72	72.91	73.39	0	62.12	70- 80	139.7	3742	99.7, 99.7
90	0	0	0	0	0	0	0	0	80- 90	11.18	3753	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): 2533.8 lm

%lum = 67.5%

%lamp = 67.5%

Conical surface Flux(120deg): 3328.3 lm

%lum = 88.7%

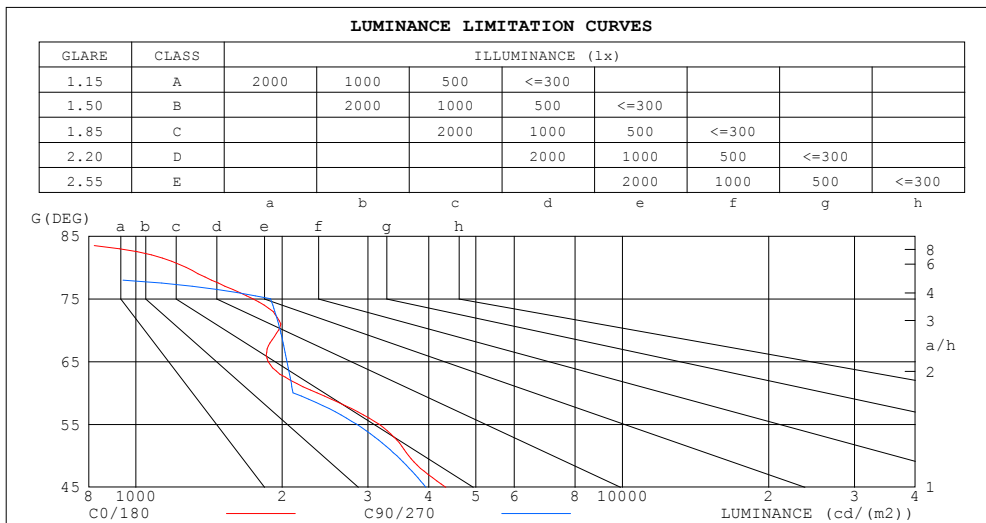
%lamp = 88.7%

H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:17 November 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=1.0667]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:220.21V I:0.1454A P:31.186W PF:0.9543 Freq:49.99Hz Lamp Flux:3753.01x1 lm		
NAME: MGL2075	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	343	0
80	1269	0
75	1740	1892
70	1966	1980
65	1871	2047
60	2358	2105
55	3164	2845
50	3637	3439
45	4337	3945

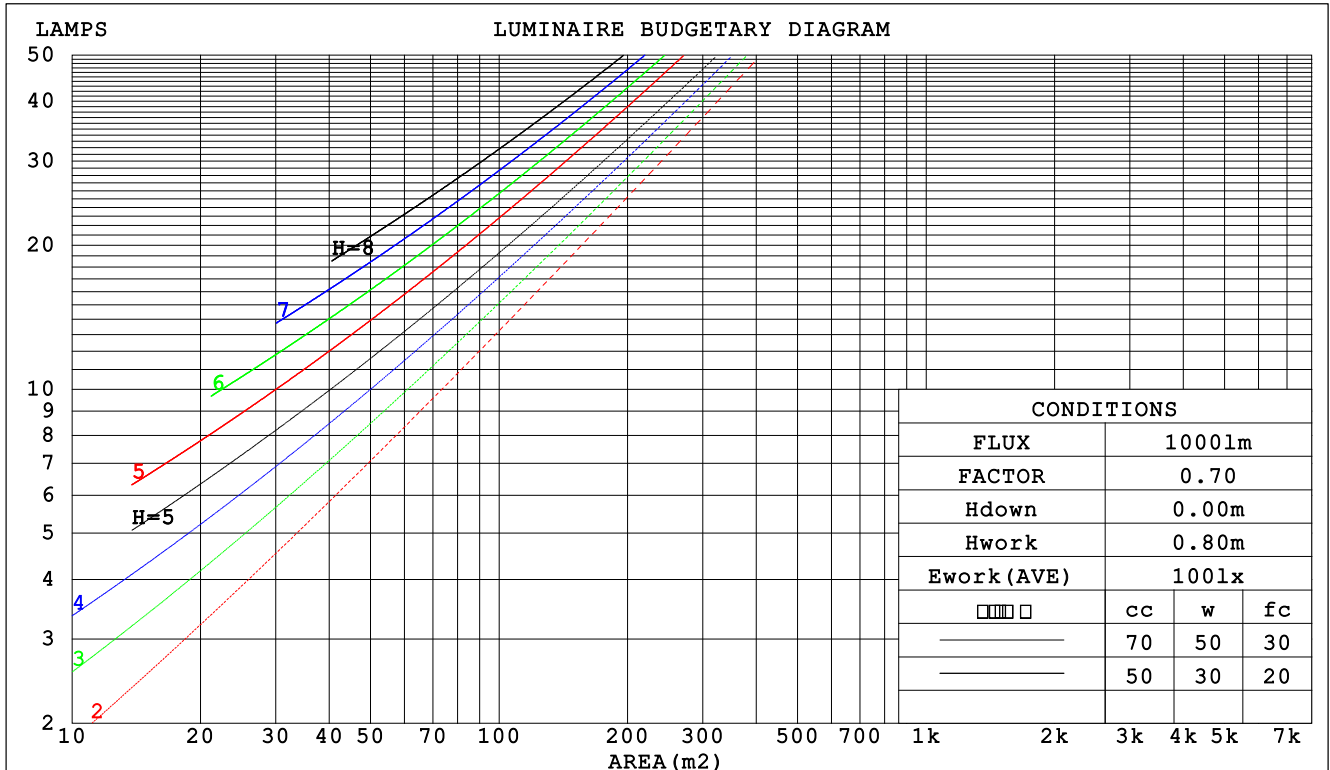
H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:17 November 2021

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=1.0667]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.21V I:0.1454A P:31.186W PF:0.9543 Freq:49.99Hz Lamp Flux:3753.01x1 lm		
NAME: MGL2075	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:17 November 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=1.0667]
Remarks:

WEC AND CCEC

Test:U:220.21V I:0.1454A P:31.186W PF:0.9543 Freq:49.99Hz Lamp Flux:3753.01x1 lm					
NAME: MGL2075			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	.143	.045	.237	.136	.043	.225	.130	.042	.214	.124	.040		
2.0	.249	.137	.042	.243	.134	.041	.232	.129	.040	.221	.124	.039	.212	.120	.038		
3.0	.235	.125	.038	.230	.123	.037	.220	.119	.036	.211	.116	.035	.203	.112	.035		
4.0	.221	.115	.034	.216	.113	.033	.208	.110	.033	.199	.107	.032	.192	.104	.032		
5.0	.207	.106	.031	.203	.104	.030	.195	.102	.030	.188	.099	.030	.181	.097	.029		
6.0	.194	.097	.028	.191	.096	.028	.184	.094	.027	.177	.092	.027	.171	.090	.027		
7.0	.183	.090	.026	.180	.089	.025	.173	.088	.025	.168	.086	.025	.162	.084	.025		
8.0	.172	.084	.024	.169	.083	.024	.164	.082	.023	.159	.080	.023	.154	.079	.023		
9.0	.163	.079	.022	.160	.078	.022	.155	.077	.022	.150	.075	.022	.146	.074	.021		
10.0	.154	.074	.020	.151	.073	.020	.147	.072	.020	.143	.071	.020	.139	.070	.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	.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	.129	.087	.054	.088	.060	.038	.051	.035	.023	.016	.012	.007	
5.0	.143	.090	.051	.122	.078	.044	.084	.054	.031	.049	.032	.018	.016	.010	.006	
6.0	.136	.081	.042	.117	.070	.036	.080	.049	.026	.047	.029	.015	.015	.009	.005	
7.0	.129	.074	.035	.111	.064	.031	.077	.045	.022	.045	.027	.013	.014	.009	.004	
8.0	.123	.068	.030	.106	.059	.027	.073	.042	.019	.043	.025	.011	.014	.008	.004	
9.0	.118	.063	.027	.101	.055	.023	.070	.039	.016	.041	.023	.010	.013	.007	.003	
10.0	.113	.059	.023	.097	.051	.020	.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:17 November 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=1.0667]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.21V I:0.1454A P:31.186W PF:0.9543 Freq:49.99Hz Lamp Flux:3753.01x1 lm										
NAME: MGL2075					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	16.2	17.6	16.5	17.8	18.0	16.0	17.4	16.3	17.6	17.8
3H	17.0	18.2	17.3	18.4	18.7	16.9	18.2	17.2	18.4	18.6
4H	17.3	18.5	17.6	18.7	19.0	17.3	18.5	17.6	18.7	18.9
6H	17.4	18.5	17.7	18.8	19.0	17.3	18.4	17.6	18.7	18.9
8H	17.4	18.5	17.7	18.7	19.0	17.2	18.3	17.6	18.6	18.9
12H	17.4	18.4	17.7	18.7	19.0	17.2	18.2	17.5	18.5	18.8
4H 2H	16.5	17.7	16.8	17.9	18.2	16.3	17.5	16.6	17.7	18.0
3H	17.4	18.5	17.8	18.7	19.0	17.4	18.4	17.7	18.7	19.0
4H	17.8	18.8	18.2	19.1	19.4	17.9	18.8	18.2	19.1	19.4
6H	18.1	18.9	18.4	19.2	19.6	17.9	18.7	18.3	19.1	19.4
8H	18.1	18.8	18.5	19.2	19.6	17.9	18.6	18.3	19.0	19.4
12H	18.0	18.7	18.4	19.1	19.5	17.8	18.5	18.2	18.9	19.3
8H 4H	18.0	18.7	18.4	19.1	19.5	18.0	18.8	18.4	19.1	19.5
6H	18.3	18.9	18.7	19.3	19.8	18.1	18.7	18.5	19.1	19.5
8H	18.4	18.9	18.8	19.3	19.8	18.0	18.6	18.5	19.0	19.5
12H	18.3	18.8	18.8	19.2	19.7	18.0	18.5	18.5	18.9	19.4
12H 4H	17.9	18.6	18.4	19.0	19.4	18.0	18.7	18.4	19.1	19.5
6H	18.3	18.8	18.7	19.3	19.7	18.1	18.6	18.5	19.1	19.5
8H	18.3	18.8	18.8	19.3	19.7	18.0	18.5	18.5	19.0	19.4
Variations with the observer position at spacings:										
S = 1.0H	+ 0.5 / - 0.7					+ 0.6 / - 0.6				
1.5H	+ 0.3 / - 0.5					+ 0.2 / - 0.5				
2.0H	+ 1.3 / - 1.4					+ 0.9 / - 1.2				

CIE Pub.117, 3753 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:17 November 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=1.0667]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.21V I:0.1454A P:31.186W PF:0.9543 Freq:49.99Hz Lamp Flux:3753.01x1 lm		
NAME: MGL2075	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

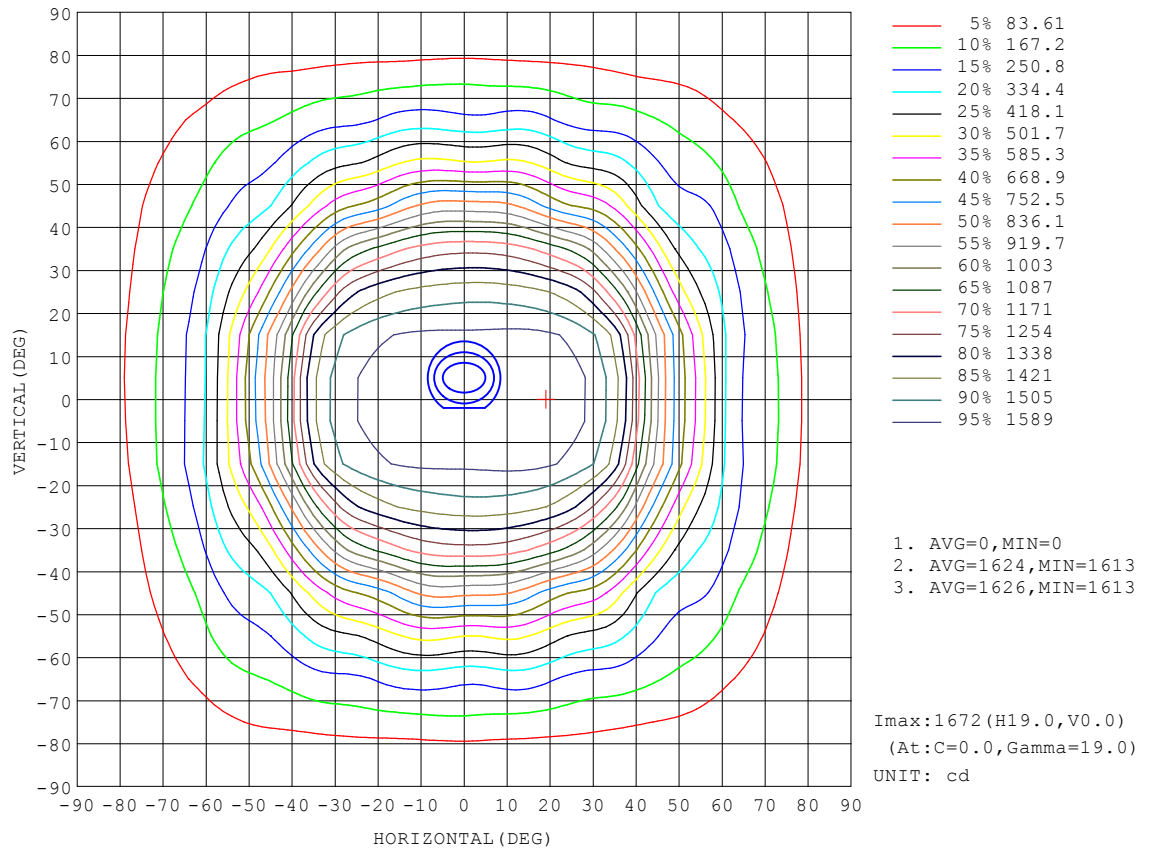
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	65	55	48	64	54	48	63	54	48	42
0.80	75	65	58	74	64	58	72	64	58	52
1.00	83	73	67	82	73	67	80	74	66	60
1.25	89	81	75	88	80	74	86	79	73	67
1.50	94	86	80	92	85	79	90	83	78	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	94	100	96	92	85
4.00	109	104	101	107	103	99	103	99	96	88
5.00	111	107	104	109	105	102	104	101	99	90
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:17 November 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=1.0667]
Remarks:

ISOCANDELA DIAGRAM

Test:U:220.21V I:0.1454A P:31.186W PF:0.9543 Freq:49.99Hz Lamp Flux:3753.01x1 lm		
NAME: MGL2075	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

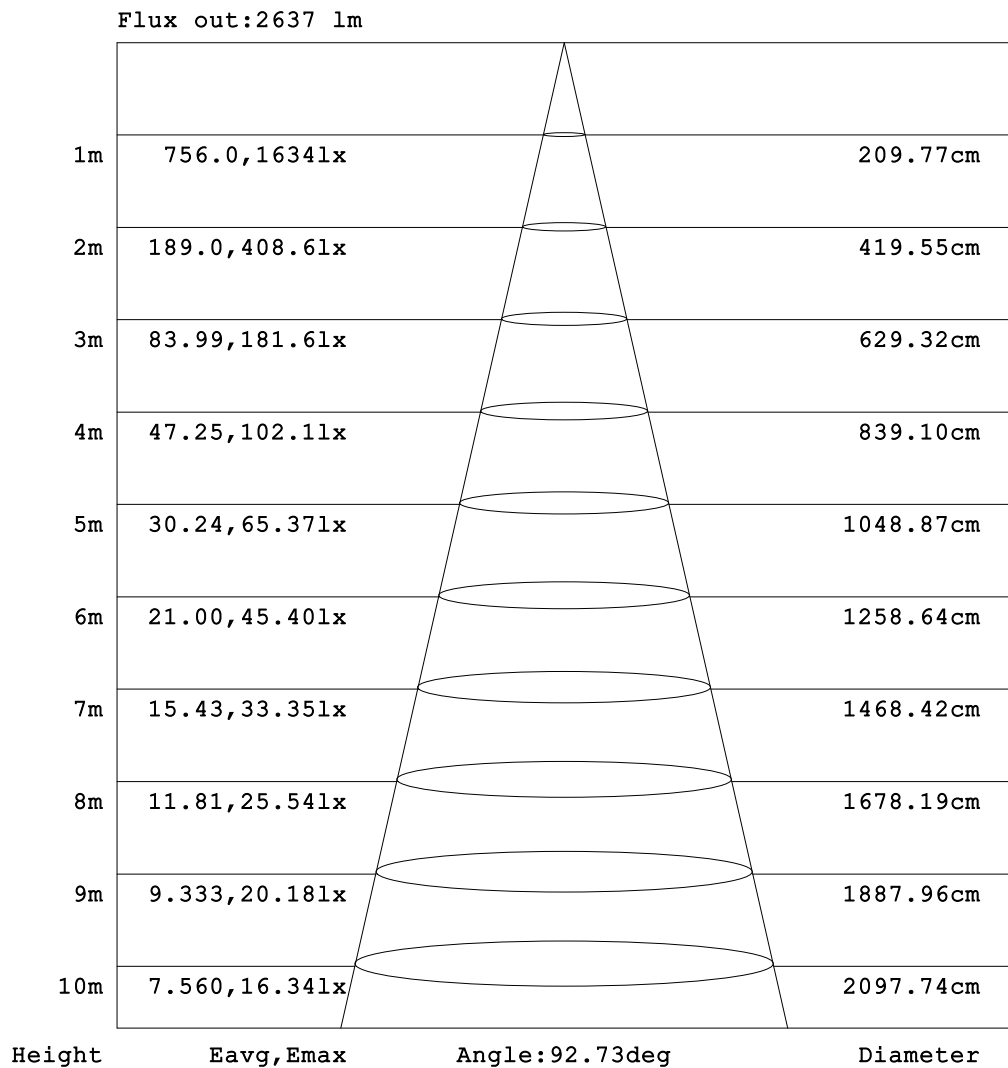


H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:17 November 2021

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=1.0667]
Remarks:

AAI Figure

Test:U:220.21V I:0.1454A P:31.186W PF:0.9543 Freq:49.99Hz Lamp Flux:3753.01x1 lm		
NAME: MGL2075	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:



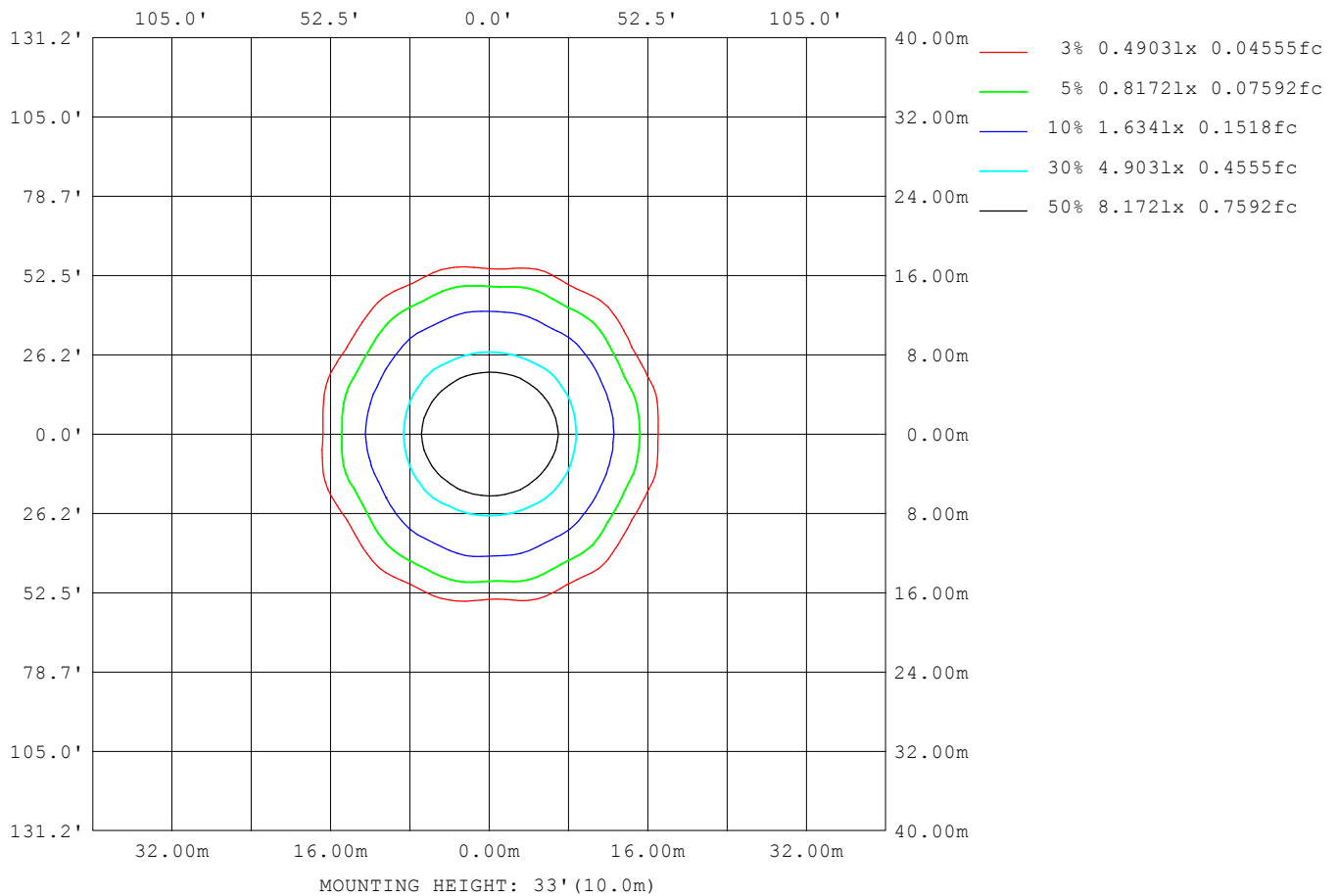
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:17 November 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=1.0667]
Remarks:

ISOLUX DIAGRAM

Test:U:220.21V I:0.1454A P:31.186W PF:0.9543 Freq:49.99Hz Lamp Flux:3753.01x1 lm		
NAME: MGL2075	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:17 November 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=1.0667]
Remarks:

LED Avg.L Report

Test:U:220.21V I:0.1454A P:31.186W PF:0.9543 Freq:49.99Hz Lamp Flux:3753.01x1 lm		
NAME: MGL2075	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

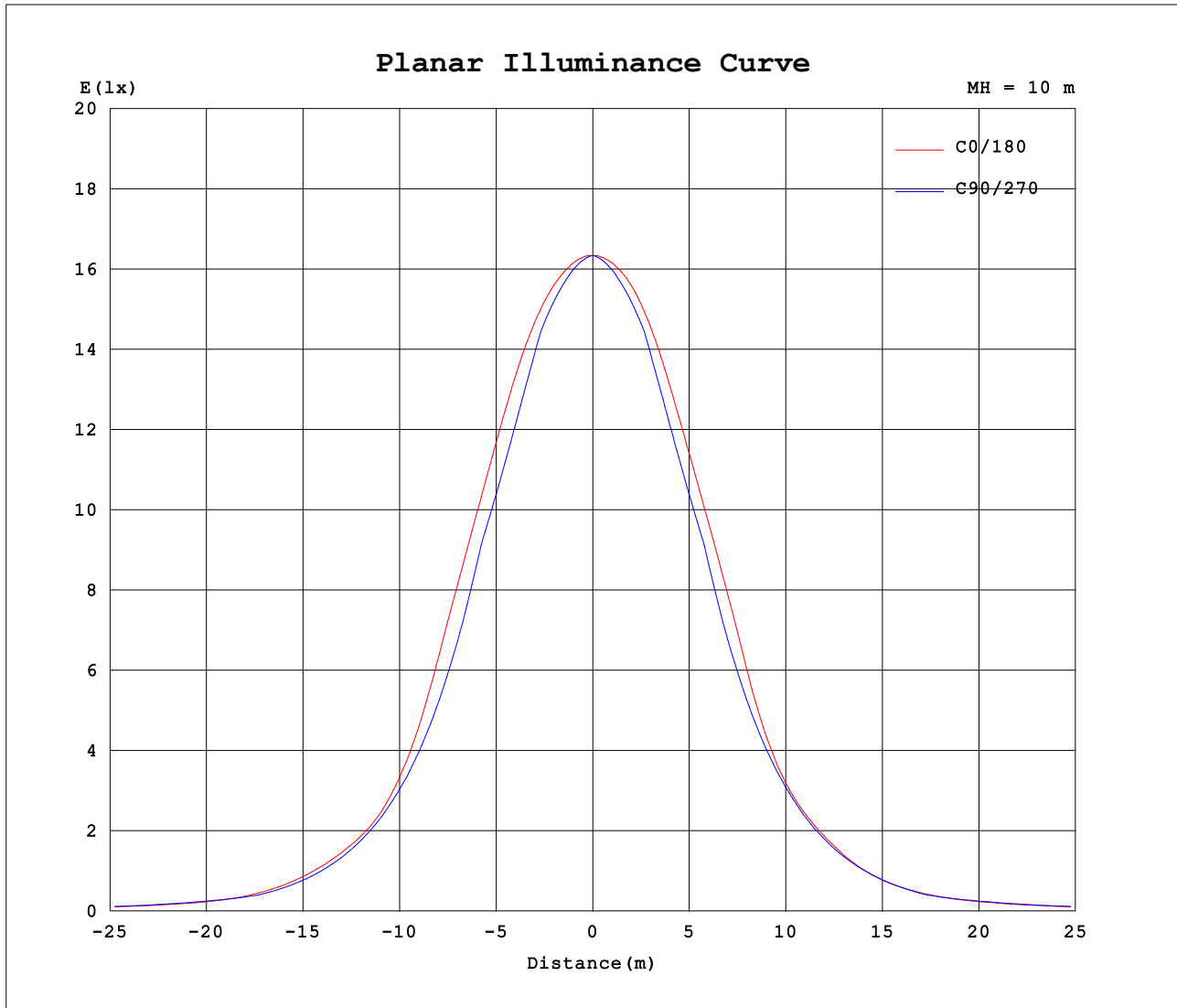
AvgL	cd/m2
L_0~180 (65) av	1896
L_0~180 (75) av	1680
L_0~180 (85) av	232
L_90~270 (65) av	2044
L_90~270 (75) av	1864
L_90~270 (85) av	0
L_45 (65) av	2176
L_45 (75) av	1746
L_45 (85) av	0

Standard: GB/T 29293-2012

H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:17 November 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=1.0667]
Remarks:

Planar Illuminance Curve



H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:17 November 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=1.0667]
Remarks:

