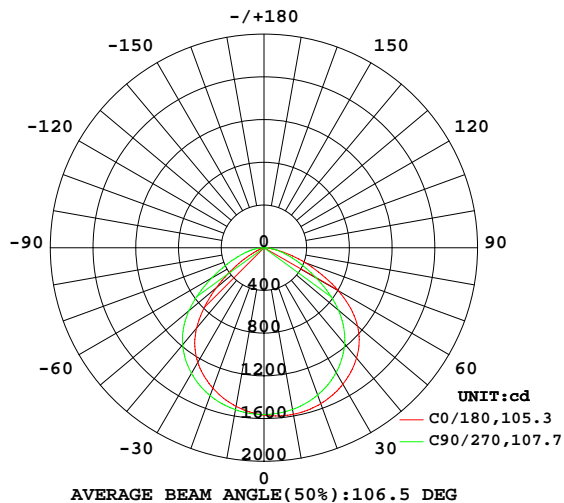


LUMINAIRE PHOTOMETRIC TEST REPORT

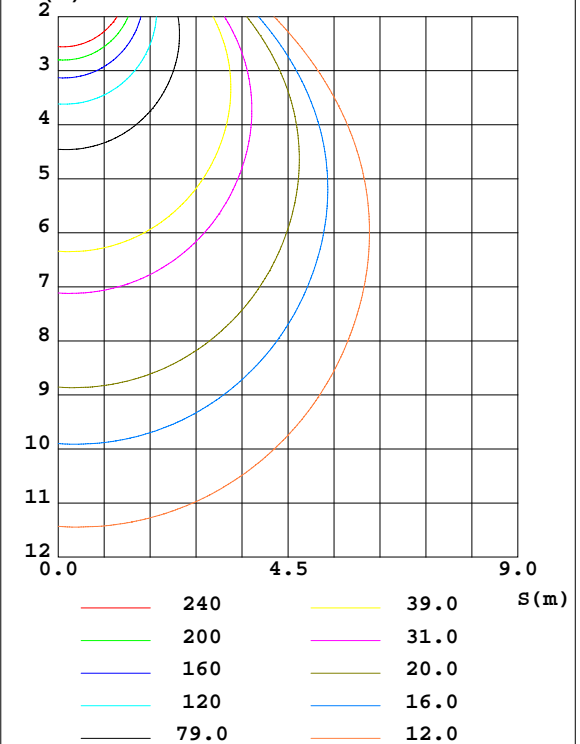
Test:U:229.65V I:0.2857A P:63.667W PF:0.9705 Freq:49.99Hz Lamp Flux:4050.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 780*62*42	SERIAL No.:
MFR.:	SUR.:0.72*0.017	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 63.63 lm/W			
MODEL		Imax(cd)	1584	S/MH(C0/180)	1.18
NOMINAL POWER(W)	60	LOR(%)	100.0	S/MH(C90/270)	1.29
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	4050.9	η UP,DN(C0-180)	0.0,51.5
NOMINAL FLUX(lm)	4050.9	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,48.5
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	230.0	η down(%)	100.0	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-07-10

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

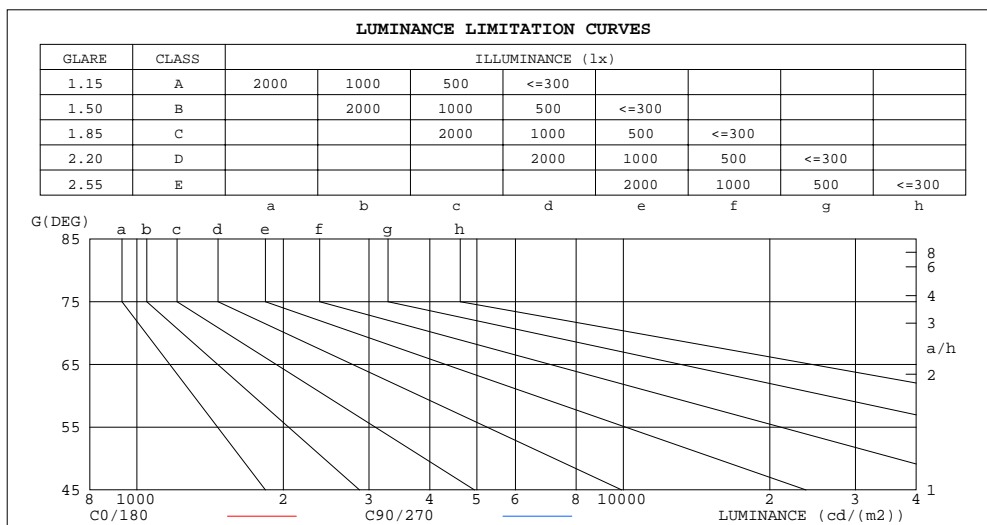
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	$\%lum, lamp$
10	1583	1564	1537	1512	1508	1513	1540	1568	0- 10	148.1	148.1	3.66,3.66
20	1554	1524	1468	1416	1400	1418	1474	1528	10- 20	427.0	575.1	14.2,14.2
30	1476	1435	1351	1266	1239	1270	1358	1443	20- 30	654.5	1230	30.4,30.4
40	1349	1293	1175	1041	981.7	1046	1186	1302	30- 40	795.2	2025	50,50
50	1145	1073	910.3	688.6	582.0	692.0	917.3	1083	40- 50	799.7	2824	69.7,69.7
60	802.5	735.5	565.2	343.0	215.6	338.5	565.5	740.5	50- 60	635.5	3460	85.4,85.4
70	410.9	387.1	283.3	113.5	50.30	109.4	280.4	387.1	60- 70	379.7	3840	94.8,94.8
80	111.8	145.6	112.0	16.51	3.538	16.44	111.1	147.7	70- 80	168.8	4008	99,99
90	22.76	18.38	6.040	1.942	3.840	3.591	5.790	18.57	80- 90	42.46	4051	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		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-07-10

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:229.65V I:0.2857A P:63.667W PF:0.9705 Freq:49.99Hz Lamp Flux:4050.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 780*62*42	SERIAL No.:
MFR.:	SUR.:0.72*0.017	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	49233	51668
80	52765	52848
75	77829	58582
70	98467	67901
65	116342	79434
60	131557	92653
55	141686	105708
50	145949	116079
45	146062	122496

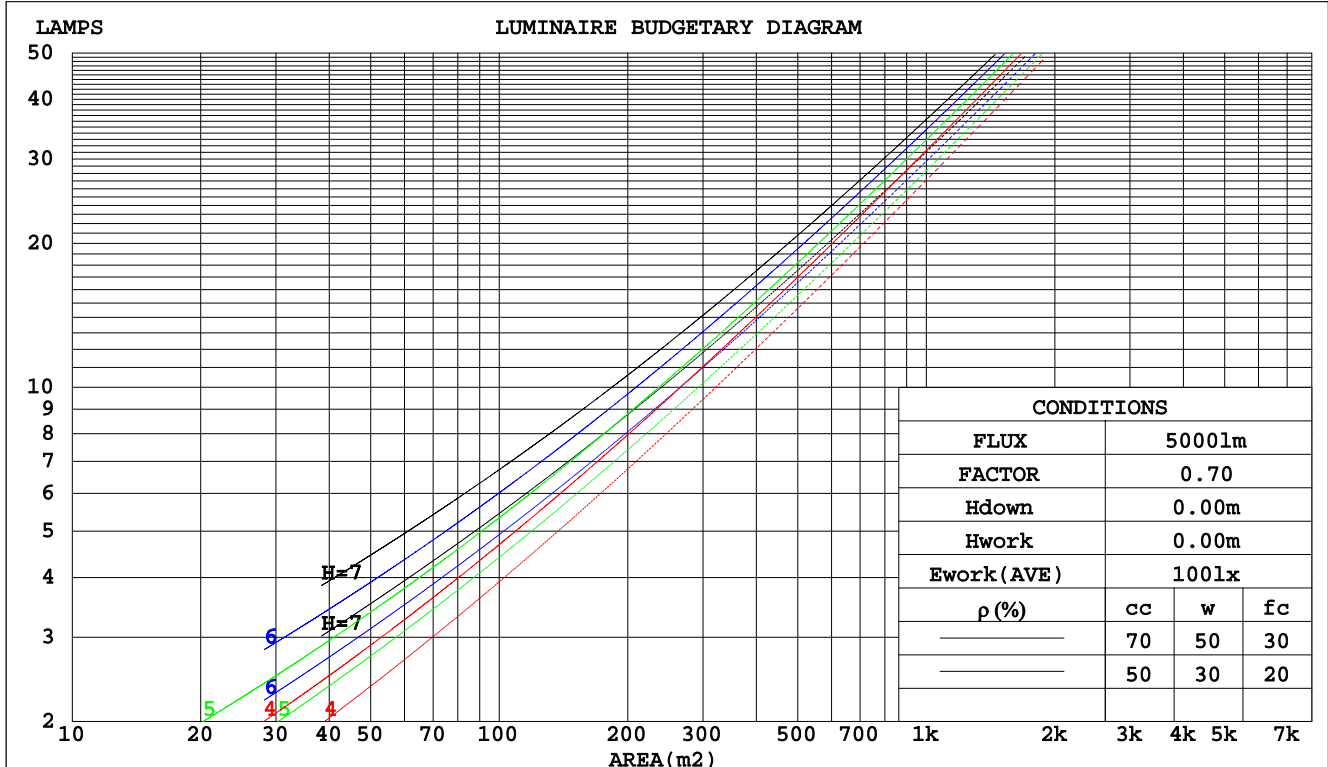
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-07-10

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:229.65V I:0.2857A P:63.667W PF:0.9705 Freq:49.99Hz Lamp Flux:4050.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 780*62*42	SERIAL No.:
MFR.:	SUR.:0.72*0.017	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	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	.00
1.0	1.06	1.02	.98	1.03	.00	.97	.99	.96	.94	.95	.93	.91	.92	.90	.88	.86
2.0	.93	.87	.81	.91	.85	.80	.88	.83	.79	.84	.80	.77	.81	.78	.75	.73
3.0	.82	.75	.69	.81	.74	.68	.78	.72	.67	.75	.70	.66	.73	.68	.65	.62
4.0	.73	.65	.59	.72	.64	.58	.70	.63	.58	.67	.61	.57	.65	.60	.56	.54
5.0	.66	.57	.51	.65	.57	.51	.63	.56	.50	.61	.54	.50	.59	.53	.49	.47
6.0	.59	.51	.45	.58	.50	.44	.57	.49	.44	.55	.49	.44	.53	.48	.43	.41
7.0	.54	.45	.40	.53	.45	.39	.52	.44	.39	.50	.44	.39	.49	.43	.39	.37
8.0	.49	.41	.35	.49	.41	.35	.47	.40	.35	.46	.40	.35	.45	.39	.35	.33
9.0	.45	.37	.32	.45	.37	.32	.44	.37	.32	.42	.36	.31	.41	.36	.31	.29
10.0	.42	.34	.29	.41	.34	.29	.40	.33	.29	.39	.33	.29	.38	.33	.28	.27



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-07-10

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:229.65V I:0.2857A P:63.667W PF:0.9705 Freq:49.99Hz Lamp Flux:4050.9x1 lm								
NAME:			TYPE:			WEIGHT:		
SPEC.:			DIM.: 780*62*42			SERIAL No.:		
MFR.:			SUR.:0.72*0.017			Shielding Angle:		

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.278	.158	.050	.271	.155	.049	.258	.148	.047	.246	.142	.046	.235	.136	.044	
2.0	.267	.146	.045	.261	.144	.044	.250	.139	.043	.239	.134	.042	.229	.130	.041	
3.0	.251	.134	.040	.245	.131	.040	.235	.128	.039	.226	.124	.038	.217	.120	.037	
4.0	.234	.122	.036	.229	.120	.035	.221	.117	.035	.212	.114	.034	.204	.111	.034	
5.0	.219	.111	.032	.214	.110	.032	.206	.107	.032	.199	.105	.031	.192	.103	.031	
6.0	.204	.102	.029	.200	.101	.029	.193	.099	.029	.187	.097	.029	.181	.095	.028	
7.0	.191	.095	.027	.188	.094	.027	.182	.092	.026	.176	.090	.026	.170	.088	.026	
8.0	.179	.088	.025	.176	.087	.025	.171	.085	.024	.165	.084	.024	.160	.082	.024	
9.0	.169	.082	.023	.166	.081	.023	.161	.080	.023	.156	.078	.022	.152	.077	.022	
10.0	.159	.076	.021	.157	.076	.021	.152	.075	.021	.148	.073	.021	.144	.072	.021	

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	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	.178	.156	.137	.152	.134	.118	.104	.092	.081	.060	.053	.047	.019	.017	.015	
2.0	.169	.132	.101	.145	.114	.087	.099	.079	.061	.057	.046	.036	.018	.015	.012	
3.0	.161	.114	.077	.138	.098	.067	.095	.068	.047	.055	.040	.028	.018	.013	.009	
4.0	.153	.101	.061	.131	.087	.053	.090	.061	.037	.052	.036	.022	.017	.012	.007	
5.0	.146	.090	.049	.125	.078	.043	.086	.054	.030	.050	.032	.018	.016	.010	.006	
6.0	.139	.082	.040	.120	.071	.035	.082	.050	.025	.048	.029	.015	.015	.010	.005	
7.0	.133	.075	.034	.114	.065	.030	.079	.045	.021	.046	.027	.013	.015	.009	.004	
8.0	.126	.069	.029	.109	.060	.026	.075	.042	.018	.044	.025	.011	.014	.008	.004	
9.0	.121	.064	.026	.104	.056	.023	.072	.039	.016	.042	.023	.010	.014	.008	.003	
10.0	.115	.060	.023	.099	.052	.020	.069	.037	.014	.040	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-07-10

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
 Humidity:65.0%
 Test Distance:11.700m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:229.65V I:0.2857A P:63.667W PF:0.9705 Freq:49.99Hz Lamp Flux:4050.9x1 lm											
NAME:					TYPE:			WEIGHT:			
SPEC.:					DIM.: 780*62*42			SERIAL No.:			
MFR.:					SUR.:0.72*0.017			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	30.8	32.2	31.0	32.4	32.6	29.7	31.1	29.9	31.3	31.5	
	3H	31.9	33.2	32.2	33.5	33.7	30.6	31.9	30.9	32.2	32.4
	4H	32.3	33.5	32.6	33.8	34.0	30.9	32.2	31.2	32.4	32.7
	6H	32.4	33.6	32.7	33.8	34.1	31.1	32.3	31.5	32.6	32.9
	8H	32.4	33.5	32.7	33.8	34.1	31.2	32.3	31.5	32.6	32.9
	12H	32.4	33.5	32.8	33.8	34.1	31.2	32.3	31.6	32.6	32.9
4H	2H	31.2	32.5	31.5	32.7	33.0	30.3	31.6	30.6	31.8	32.1
	3H	32.5	33.6	32.8	33.9	34.2	31.4	32.5	31.8	32.8	33.1
	4H	32.9	33.9	33.3	34.3	34.6	31.9	32.9	32.3	33.2	33.5
	6H	33.2	34.1	33.6	34.4	34.8	32.2	33.1	32.6	33.4	33.8
	8H	33.2	34.0	33.6	34.4	34.8	32.3	33.2	32.8	33.5	33.9
	12H	33.2	34.0	33.7	34.4	34.8	32.4	33.2	32.9	33.6	34.0
8H	4H	33.1	33.9	33.5	34.3	34.6	32.1	32.9	32.5	33.3	33.7
	6H	33.4	34.1	33.9	34.5	34.9	32.6	33.3	33.0	33.7	34.1
	8H	33.5	34.1	34.0	34.5	35.0	32.8	33.4	33.3	33.8	34.3
	12H	33.6	34.1	34.1	34.5	35.0	33.0	33.5	33.5	34.0	34.4
12H	4H	33.1	33.8	33.5	34.2	34.6	32.1	32.9	32.5	33.3	33.7
	6H	33.4	34.0	33.9	34.5	34.9	32.7	33.2	33.1	33.7	34.1
	8H	33.6	34.1	34.0	34.5	35.0	32.9	33.4	33.4	33.9	34.3
Variations with the observer position at spacings:											
S = 1.0H	+ 0.2 / - 0.2					+ 0.3 / - 0.3					
1.5H	+ 0.3 / - 0.5					+ 0.3 / - 0.6					
2.0H	+ 0.4 / - 0.5					+ 0.4 / - 0.8					

CIE Pub.117, 4051 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 4.9$)

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-07-10

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
 Humidity:65.0%
 Test Distance:11.700m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:229.65V I:0.2857A P:63.667W PF:0.9705 Freq:49.99Hz Lamp Flux:4050.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 780*62*42	SERIAL No.:
MFR.:	SUR.:0.72*0.017	Shielding Angle:

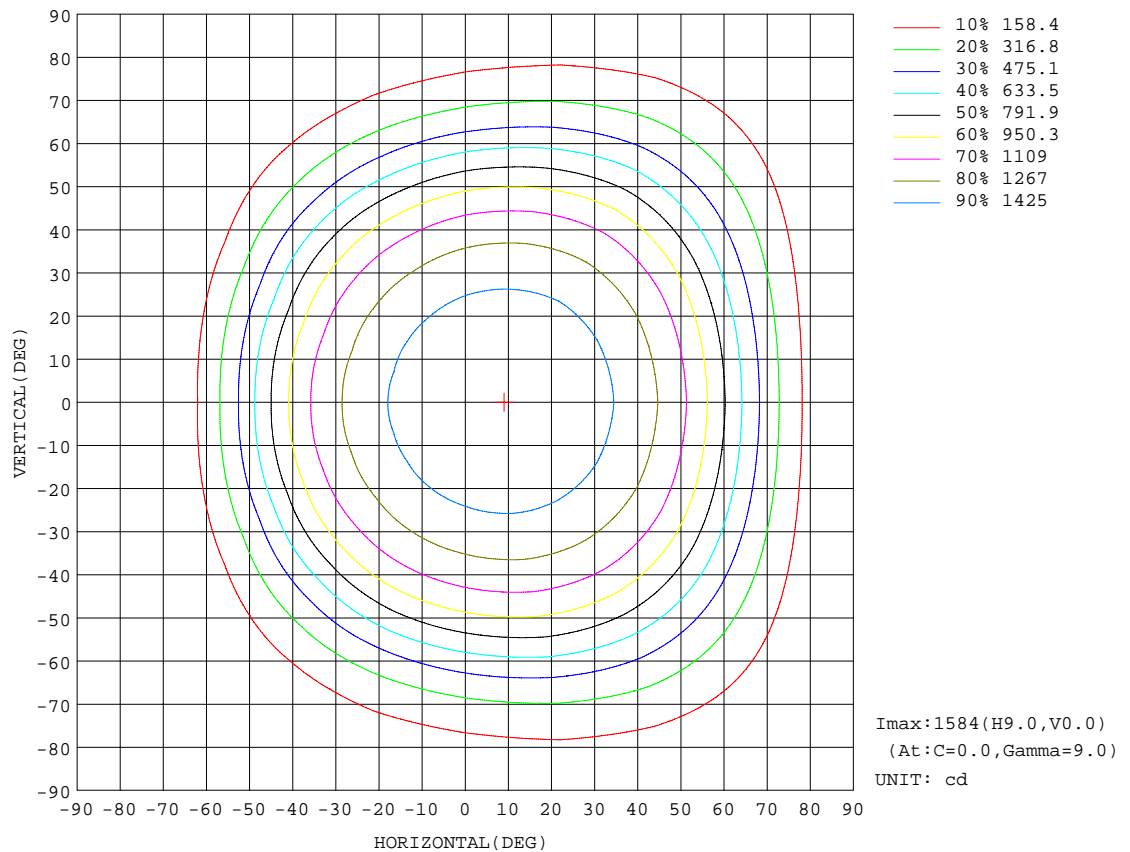
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	60	49	42	60	49	42	58	48	42	36
0.80	71	60	53	70	59	53	68	58	52	46
1.00	79	69	62	78	68	62	76	70	61	55
1.25	86	77	70	85	76	70	82	75	69	62
1.50	91	82	76	89	81	75	87	79	74	67
2.00	98	90	84	96	89	83	92	86	82	74
2.50	101	94	89	99	93	88	95	90	86	78
3.00	104	98	93	102	96	92	98	94	90	82
4.00	108	103	98	105	101	97	101	97	94	86
5.00	110	105	102	107	104	100	103	100	97	88
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-07-10

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
 Humidity:65.0%
 Test Distance:11.700m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:229.65V I:0.2857A P:63.667W PF:0.9705 Freq:49.99Hz Lamp Flux:4050.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 780*62*42	SERIAL No.:
MFR.:	SUR.:0.72*0.017	Shielding Angle:

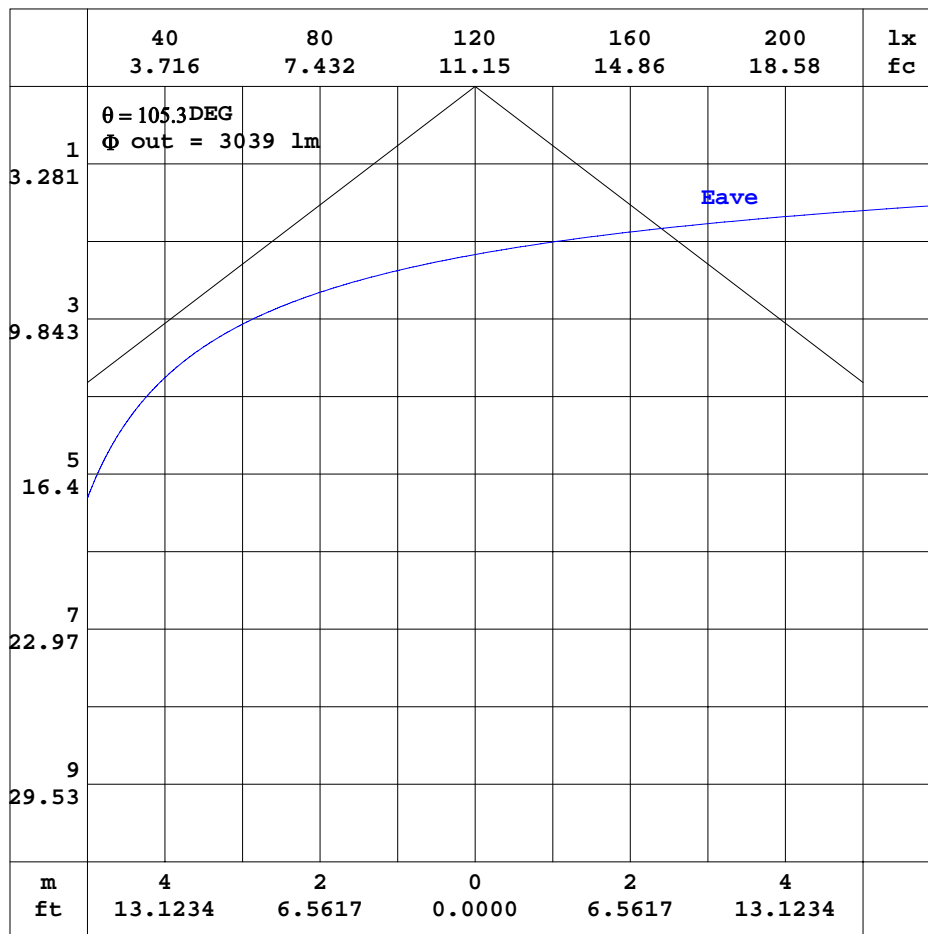


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-07-10

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

AAI CURVES

Test:U:229.65V I:0.2857A P:63.667W PF:0.9705 Freq:49.99Hz Lamp Flux:4050.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 780*62*42	SERIAL No.:
MFR.:	SUR.:0.72*0.017	Shielding Angle:



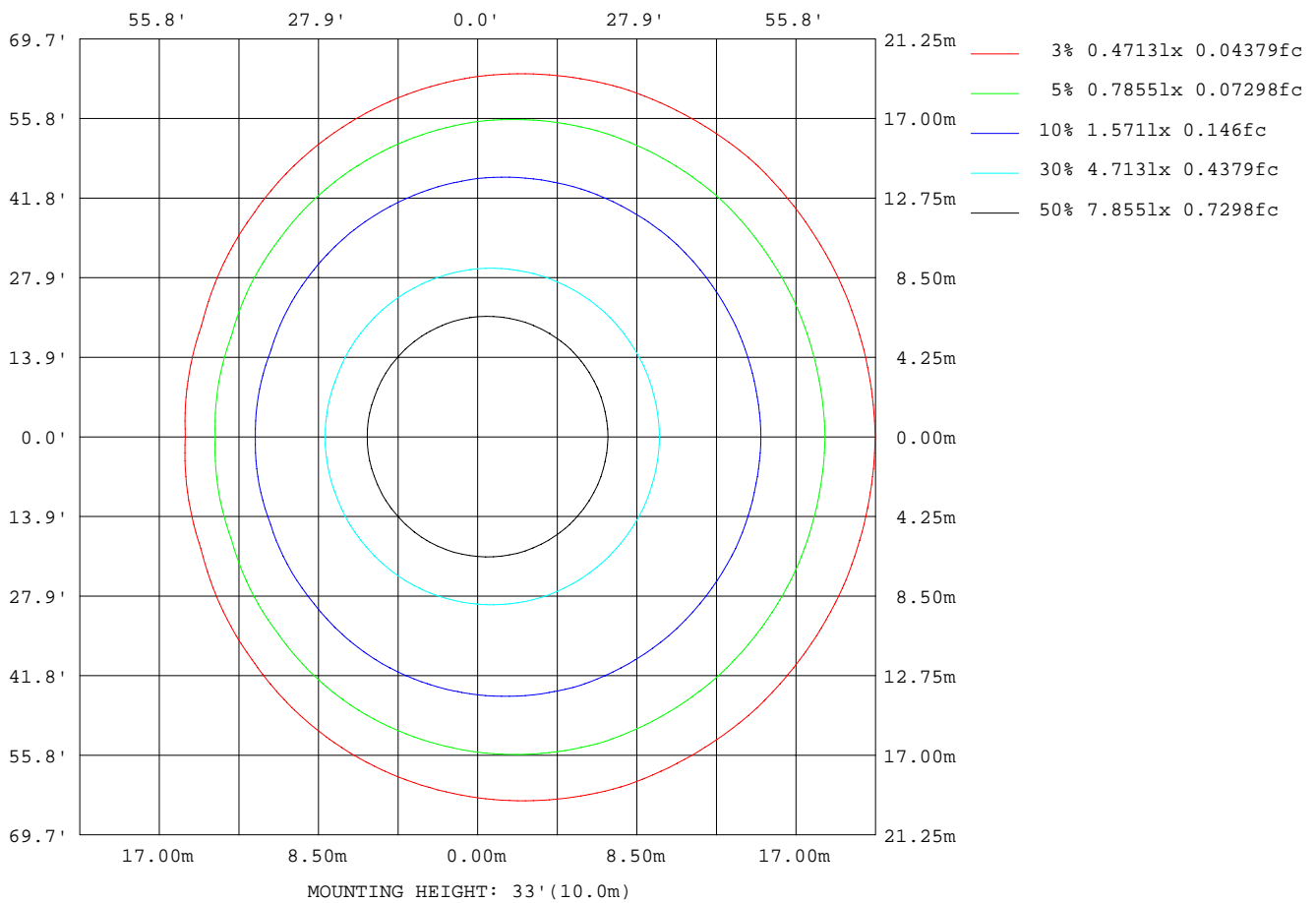
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2025-07-10

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity: 65.0%
Test Distance: 11.700m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:229.65V I:0.2857A P:63.667W PF:0.9705 Freq:49.99Hz Lamp Flux:4050.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 780*62*42	SERIAL No.:
MFR.:	SUR.:0.72*0.017	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-07-10

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:229.65V I:0.2857A P:63.667W PF:0.9705 Freq:49.99Hz Lamp Flux:4050.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 780*62*42	SERIAL No.:
MFR.:	SUR.:0.72*0.017	Shielding Angle:

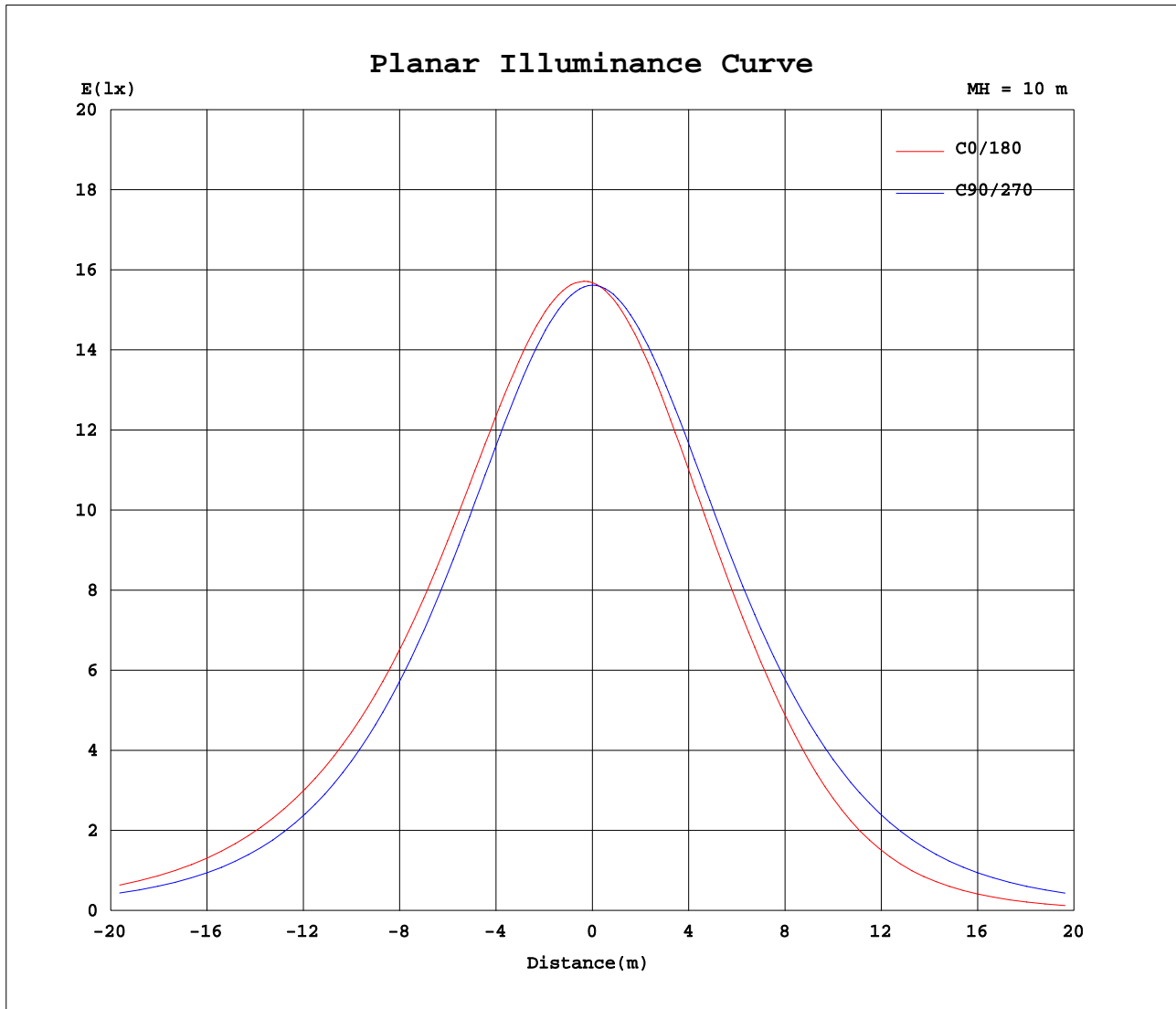
AvgL	cd/m2
L_0~180(65)av	67035
L_0~180(75)av	43022
L_0~180(85)av	26083
L_90~270(65)av	79108
L_90~270(75)av	58384
L_90~270(85)av	51366
L_45(65)av	74204
L_45(75)av	46985
L_45(85)av	28674

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-07-10

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2025-07-10

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity: 65.0%
Test Distance: 11.700m [K=1.0000]
Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

```