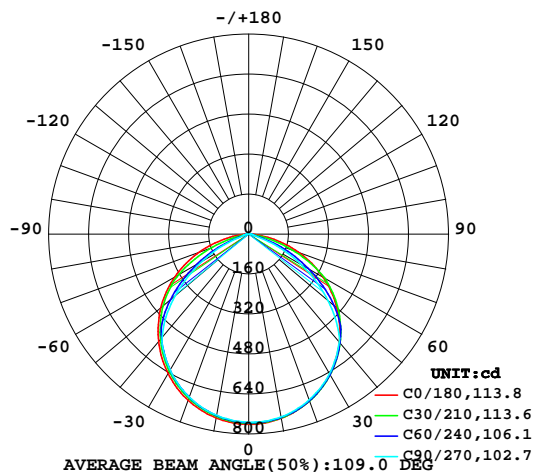


LUMINAIRE PHOTOMETRIC TEST REPORT

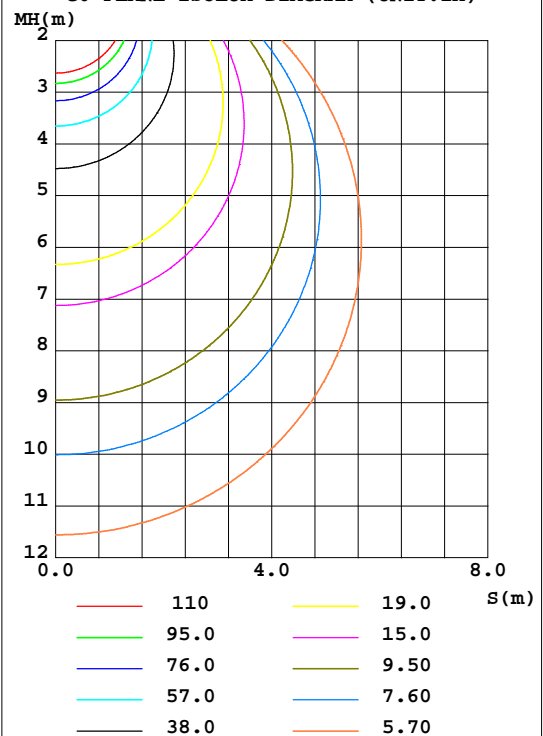
Test:U:110.59V I:0.2725A P:29.877W PF:0.9914 Freq:50.00Hz Lamp Flux:1971.42x1 lm		
NAME: 703	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:30*1200mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 65.98 lm/W			
MODEL		I _{max} (cd)	761.4	S/MH(C0/180)	1.26
NOMINAL POWER(W)	--	LOR(%)	100.0	S/MH(C90/270)	1.24
RATED VOLTAGE(V)	--	TOTAL FLUX(lm)	1971.4	η UP,DN(C0-180)	0.0,50.9
NOMINAL FLUX(lm)	1971.42	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.1
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	--	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: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2022-01-07

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:9.000m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

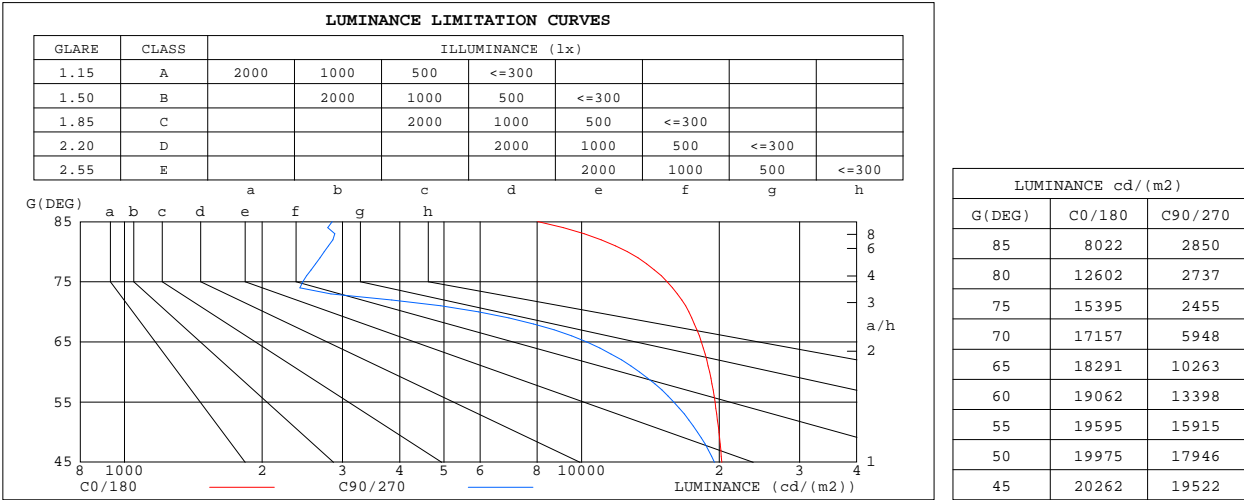
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum, lamp
10	748.6	746.5	743.0	738.8	747.6	738.8	736.6	737.3	0- 10	71.31	71.31	3.62,3.62
20	710.4	711.4	706.5	700.6	707.9	696.3	695.2	698.6	10- 20	204.4	275.8	14,14
30	648.4	651.9	646.0	638.8	645.0	630.9	628.7	636.0	20- 30	310.4	586.2	29.7,29.7
40	565.3	570.3	564.3	555.2	561.0	544.0	539.5	552.0	30- 40	375.3	961.5	48.8,48.8
50	462.2	472.5	415.3	456.2	460.3	434.6	384.8	448.3	40- 50	386.1	1348	68.4,68.4
60	343.1	316.1	241.2	299.3	340.9	271.3	210.2	289.3	50- 60	326.7	1674	84.9,84.9
70	211.2	144.0	73.23	128.9	208.7	104.5	45.40	122.4	60- 70	208.3	1883	95.5,95.5
80	78.78	16.99	17.11	15.68	76.76	14.86	15.00	16.21	70- 80	76.02	1959	99.4,99.4
90	0.3892	1.320	0.4778	0.5247	0.6490	0.7956	0.3401	0.7870	80- 90	12.81	1971	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: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2022-01-07

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:9.000m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:110.59V I:0.2725A P:29.877W PF:0.9914 Freq:50.00Hz Lamp Flux:1971.42x1 lm		
NAME: 703	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:30*1200mm	Shielding Angle:



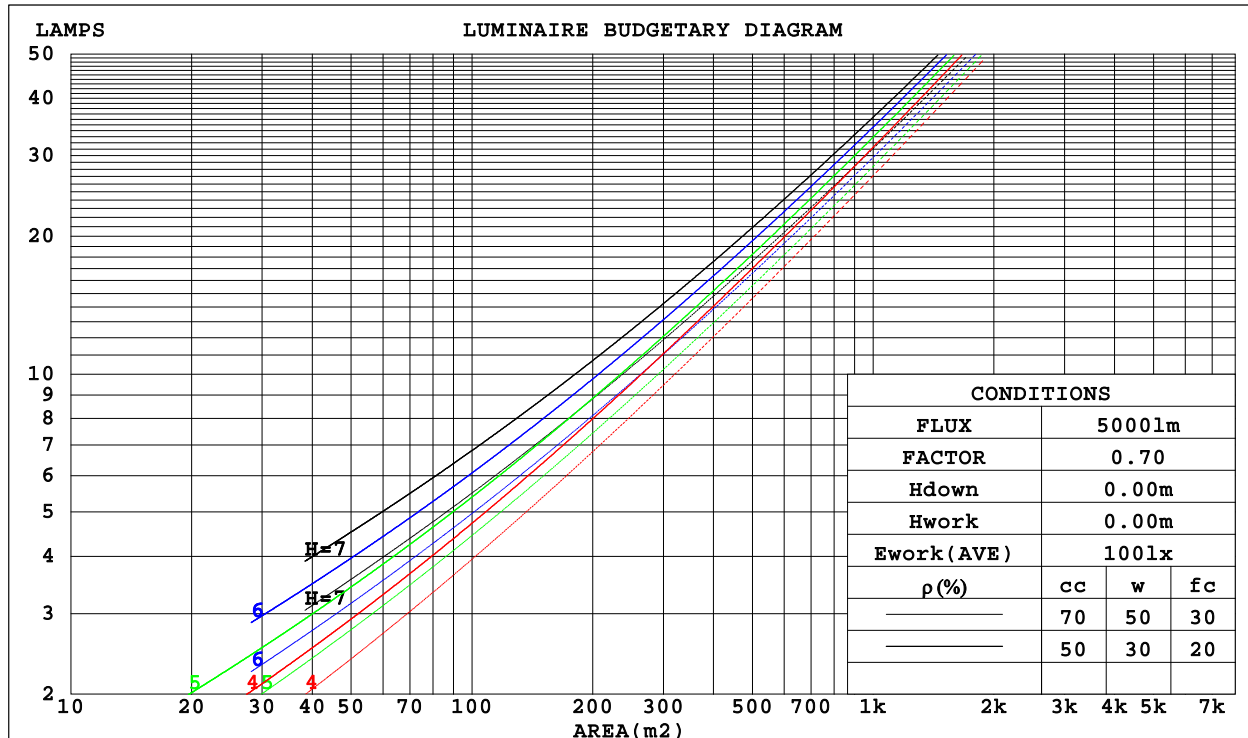
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2022-01-07

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.000m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:110.59V I:0.2725A P:29.877W PF:0.9914 Freq:50.00Hz Lamp Flux:1971.42x1 lm		
NAME: 703	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:30*1200mm	Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0	
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
ρ_{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	.00	
1.0	1.06	1.02	.98	1.03	.90	.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	.74	.68	.81	.73	.68	.78	.72	.67	.75	.70	.65	.72	.68	.64	.62	
4.0	.73	.65	.58	.72	.64	.58	.69	.62	.57	.67	.61	.56	.65	.60	.56	.53	
5.0	.65	.57	.50	.64	.56	.50	.62	.55	.50	.60	.54	.49	.58	.53	.48	.46	
6.0	.59	.50	.44	.58	.50	.44	.56	.49	.43	.55	.48	.43	.53	.47	.43	.41	
7.0	.53	.45	.39	.53	.45	.39	.51	.44	.39	.50	.43	.38	.48	.43	.38	.36	
8.0	.49	.41	.35	.48	.40	.35	.47	.40	.34	.46	.39	.34	.44	.39	.34	.32	
9.0	.45	.37	.31	.44	.37	.31	.43	.36	.31	.42	.36	.31	.41	.35	.31	.29	
10.0	.41	.34	.28	.41	.33	.28	.40	.33	.28	.39	.33	.28	.38	.32	.28	.26	



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2022-01-07

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-3000H_V1 SYSTEM V2.00.411
 Humidity: 65.0%
 Test Distance: 9.000m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:110.59V I:0.2725A P:29.877W PF:0.9914 Freq:50.00Hz Lamp Flux:1971.42x1 lm		
NAME: 703	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:30*1200mm	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	.277	.157	.050	.270	.154	.049	.257	.147	.047	.244	.141	.045	.233	.135	.044	
2.0	.268	.147	.045	.262	.144	.044	.250	.139	.043	.240	.134	.042	.230	.130	.041	
3.0	.252	.134	.040	.247	.132	.040	.237	.128	.039	.227	.125	.038	.219	.121	.037	
4.0	.236	.123	.036	.231	.121	.036	.222	.118	.035	.214	.115	.035	.206	.112	.034	
5.0	.220	.112	.032	.216	.111	.032	.208	.108	.032	.201	.106	.031	.194	.103	.031	
6.0	.206	.103	.030	.202	.102	.029	.195	.100	.029	.188	.098	.029	.182	.096	.028	
7.0	.192	.095	.027	.189	.094	.027	.183	.092	.027	.177	.091	.026	.171	.089	.026	
8.0	.181	.088	.025	.178	.087	.025	.172	.086	.025	.166	.084	.024	.161	.083	.024	
9.0	.170	.082	.023	.167	.081	.023	.162	.080	.023	.157	.079	.023	.153	.077	.022	
10.0	.160	.077	.021	.158	.076	.021	.153	.075	.021	.149	.074	.021	.145	.073	.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	.082	.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	.154	.101	.060	.132	.087	.052	.091	.061	.037	.052	.036	.022	.017	.012	.007		
5.0	.146	.090	.049	.126	.078	.042	.087	.055	.030	.050	.032	.018	.016	.010	.006		
6.0	.140	.082	.040	.120	.071	.035	.083	.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	.127	.069	.029	.109	.060	.026	.076	.042	.018	.044	.025	.011	.014	.008	.004		
9.0	.121	.064	.026	.104	.056	.022	.072	.039	.016	.042	.023	.009	.014	.008	.003		
10.0	.116	.060	.023	.100	.052	.020	.069	.037	.014	.040	.022	.008	.013	.007	.003		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2022-01-07

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.000m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:110.59V I:0.2725A P:29.877W PF:0.9914 Freq:50.00Hz Lamp Flux:1971.42x1 lm											
NAME: 703					TYPE:			WEIGHT:			
SPEC.:					DIM.:			SERIAL No.:			
MFR.:					SUR.:30*1200mm			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	23.7	25.2	24.0	25.4	25.6	22.5	23.9	22.7	24.1	24.3	
	3H	25.2	26.6	25.5	26.8	27.0	22.9	24.3	23.2	24.5	24.7
	4H	25.8	27.1	26.1	27.3	27.6	22.9	24.1	23.2	24.4	24.6
	6H	26.1	27.3	26.5	27.6	27.9	22.8	24.0	23.1	24.2	24.5
	8H	26.2	27.4	26.5	27.6	27.9	22.8	23.9	23.1	24.2	24.5
	12H	26.2	27.3	26.6	27.6	27.9	22.7	23.8	23.1	24.1	24.4
4H	2H	24.1	25.4	24.4	25.6	25.9	23.1	24.4	23.4	24.6	24.9
	3H	25.8	26.9	26.1	27.2	27.5	23.6	24.7	24.0	25.0	25.3
	4H	26.4	27.4	26.8	27.8	28.1	23.6	24.6	24.0	24.9	25.2
	6H	26.9	27.7	27.3	28.1	28.5	23.5	24.4	23.9	24.8	25.1
	8H	27.0	27.8	27.4	28.1	28.5	23.5	24.4	23.9	24.7	25.1
	12H	27.0	27.7	27.4	28.1	28.5	23.5	24.3	23.9	24.6	25.1
8H	4H	26.4	27.2	26.8	27.6	28.0	23.7	24.5	24.1	24.9	25.3
	6H	26.9	27.5	27.3	27.9	28.4	23.7	24.4	24.1	24.8	25.2
	8H	27.0	27.6	27.4	28.0	28.4	23.7	24.3	24.2	24.7	25.2
	12H	27.0	27.5	27.5	28.0	28.5	23.7	24.2	24.2	24.7	25.1
12H	4H	26.4	27.1	26.8	27.5	27.9	23.7	24.4	24.1	24.8	25.2
	6H	26.8	27.4	27.3	27.8	28.3	23.7	24.3	24.2	24.7	25.2
	8H	27.0	27.5	27.4	27.9	28.4	23.7	24.2	24.2	24.7	25.1
Variations with the observer position at spacings:											
S = 1.0H	+ 0.2 / - 0.3					+ 0.4 / - 0.5					
1.5H	+ 0.3 / - 0.5					+ 0.3 / - 0.7					
2.0H	+ 0.2 / - 0.5					+ 0.6 / - 0.9					

CIE Pub.117, 1971 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 2.4)
Area: 0.036 m2

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2022-01-07

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.000m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:110.59V I:0.2725A P:29.877W PF:0.9914 Freq:50.00Hz Lamp Flux:1971.42x1 lm		
NAME: 703	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:30*1200mm	Shielding Angle:

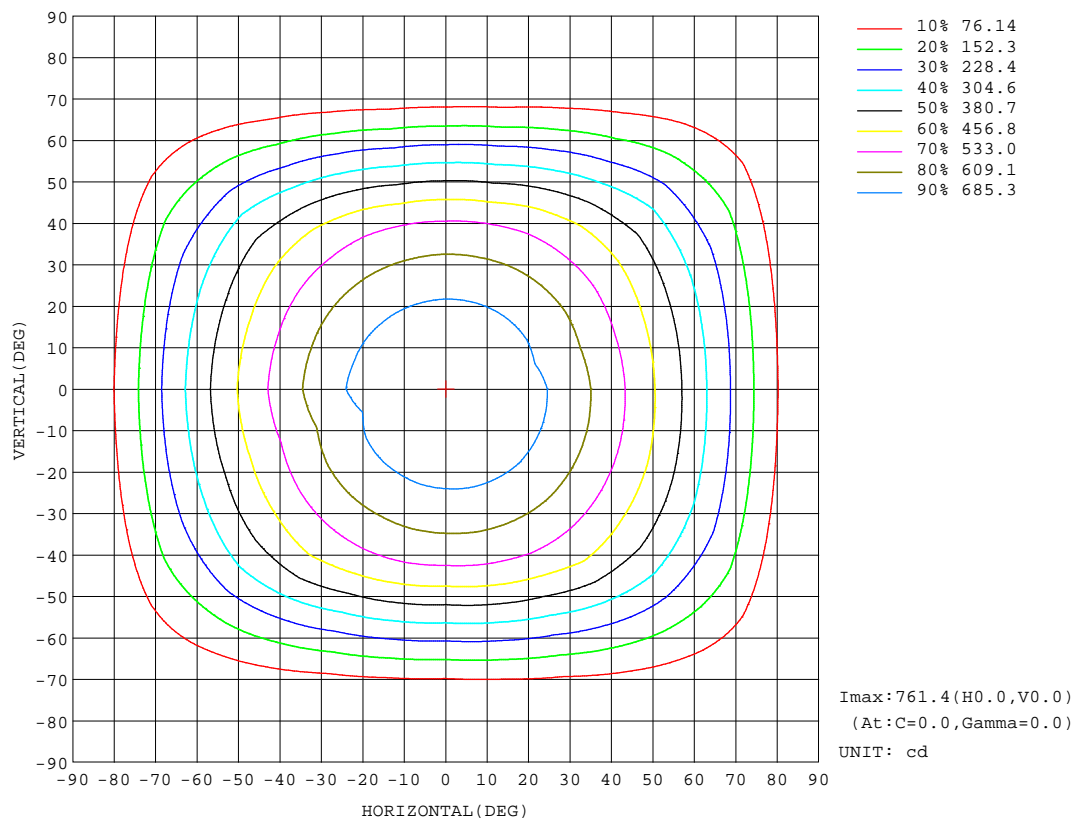
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	59	48	41	59	48	41	58	48	41	35
0.80	70	59	52	69	58	52	67	58	51	45
1.00	79	68	61	78	68	61	75	69	60	54
1.25	86	76	69	84	75	69	82	74	68	61
1.50	91	82	75	89	81	75	86	79	74	66
2.00	97	90	84	96	88	83	92	86	81	74
2.50	101	94	88	99	93	87	95	90	86	78
3.00	104	98	93	102	96	92	98	93	90	82
4.00	108	103	98	105	101	97	101	98	94	86
5.00	110	106	102	108	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: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2022-01-07

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.000m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:110.59V I:0.2725A P:29.877W PF:0.9914 Freq:50.00Hz Lamp Flux:1971.42x1 lm		
NAME: 703	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:30*1200mm	Shielding Angle:

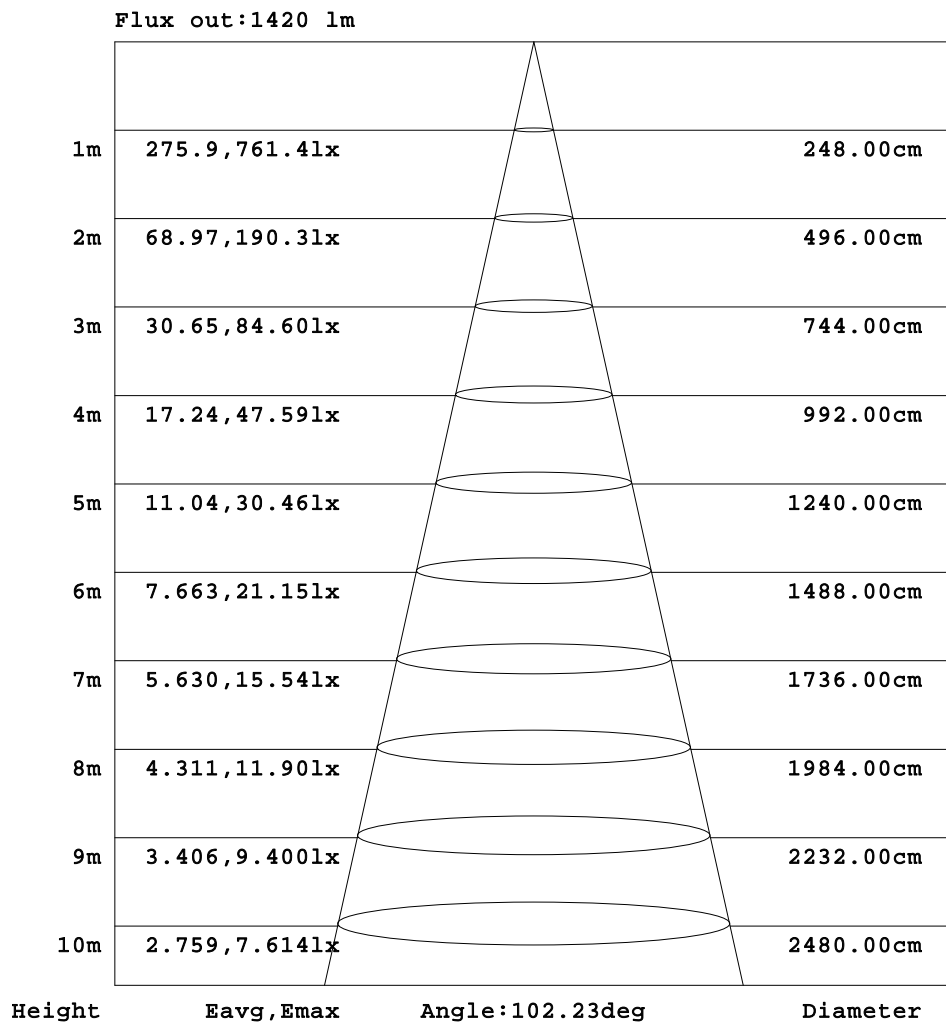


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2022-01-07

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.000m [K=1.0000]
Remarks:

AAI Figure

Test:U:110.59V I:0.2725A P:29.877W PF:0.9914 Freq:50.00Hz Lamp Flux:1971.42x1 lm		
NAME: 703	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:30*1200mm	Shielding Angle:



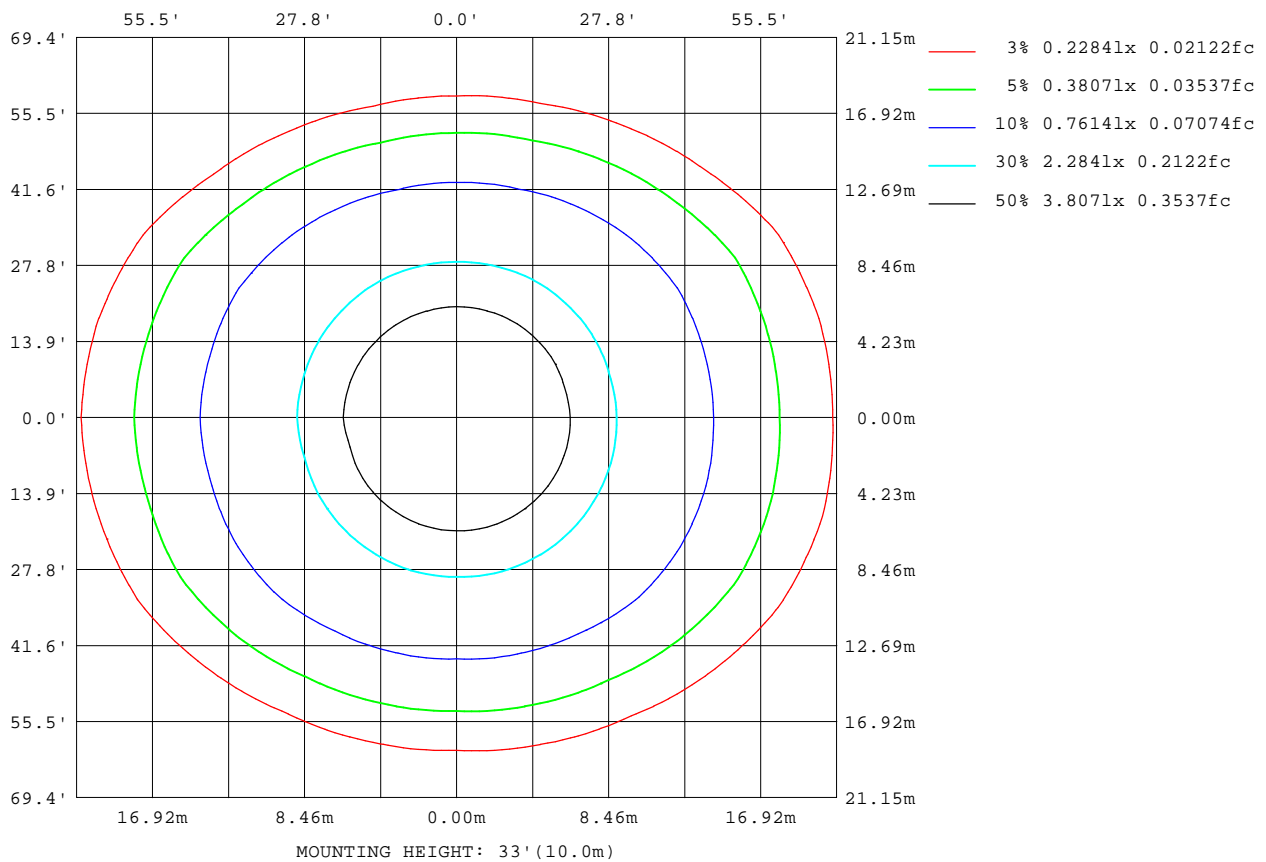
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2022-01-07

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.000m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:110.59V I:0.2725A P:29.877W PF:0.9914 Freq:50.00Hz Lamp Flux:1971.42x1 lm		
NAME: 703	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:30*1200mm	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2022-01-07

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-3000H_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 9.000m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:110.59V I:0.2725A P:29.877W PF:0.9914 Freq:50.00Hz Lamp Flux:1971.42x1 lm		
NAME: 703	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:30*1200mm	Shielding Angle:

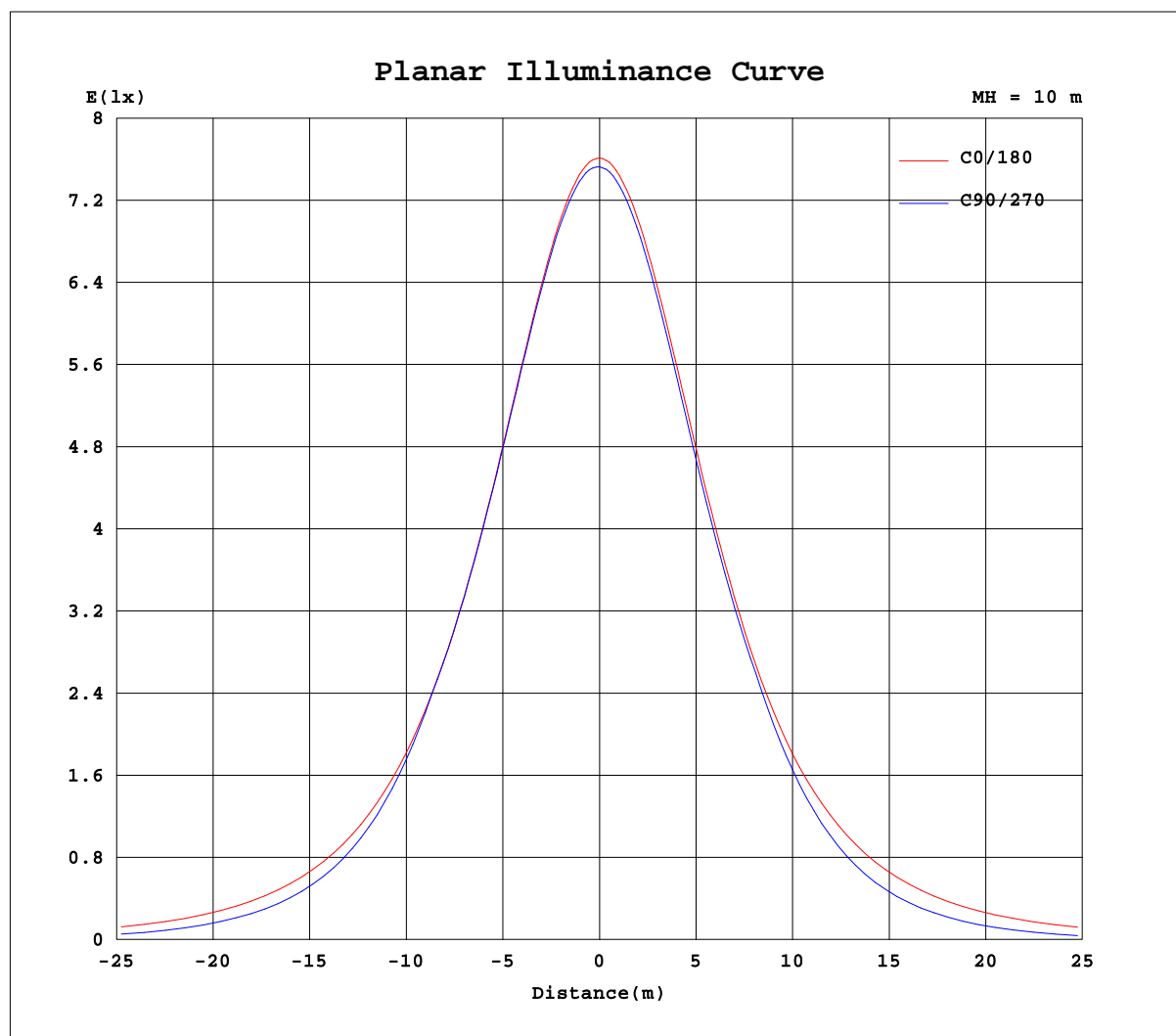
AvgL	cd/m2
L_0~180(65)av	18212
L_0~180(75)av	15258
L_0~180(85)av	7699
L_90~270(65)av	9264
L_90~270(75)av	2385
L_90~270(85)av	2498
L_45(65)av	13645
L_45(75)av	5216
L_45(85)av	2726

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2022-01-07

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.000m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2022-01-07

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-3000H_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 9.000m [K=1.0000]
Remarks:

```

Range: 0 - 90DEG
Interval: 1.0DEG
Test System: EVERFINE GO-3000H_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 9.000m [K=1.0000]
Remarks:

```

```

Range: 0 - 90DEG
Interval: 1.0DEG
Test System: EVERFINE GO-3000H_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 9.000m [K=1.0000]
Remarks:

```