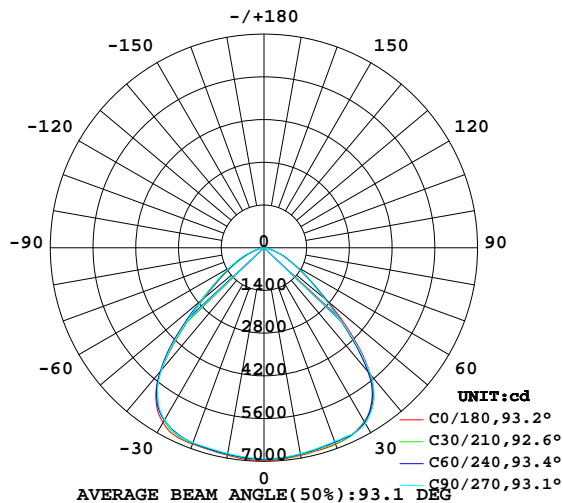


LUMINAIRE PHOTOMETRIC TEST REPORT

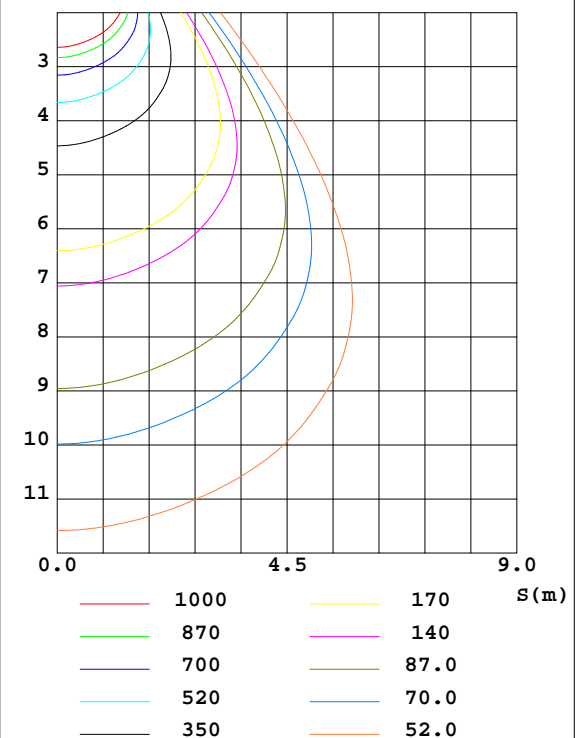
Test:U:231.6V I:0.4426A P:101.4W PF:0.9892 Lamp Flux:15346x1 lm		
NAME: 270787	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:0.191	PROTECTION ANGLE:0.14

DATA OF LAMP		PHOTOMETRIC DATA Eff: 151.34 lm/W			
MODEL	270787	I _{max} (cd)	6976	S/MH(C0/180)	1.34
NOMINAL POWER(W)	101.4	LOR(%)	100.0	S/MH(C90/270)	1.34
RATED VOLTAGE(V)	232	TOTAL FLUX(lm)	15346	η UP,DN(C0-180)	0.0,50.0
NOMINAL FLUX(lm)	15346	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.0
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	0.0	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: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2022-03-21

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity:65.0%
Test Distance:6.700m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum, lamp
10	6907	6877	6850	6833	6905	6876	6846	6827	0- 10	657.7	657.7	4.29,4.29
20	6851	6806	6757	6738	6846	6818	6798	6774	10- 20	1933	2590	16.9,16.9
30	6571	6589	6649	6594	6616	6536	6515	6486	20- 30	3110	5700	37.1,37.1
40	5425	5314	5454	5394	5241	5260	5232	5317	30- 40	3808	9508	62,62
50	2737	2650	2575	2692	2539	2637	2674	2817	40- 50	3048	12556	81.8,81.8
60	1189	1240	1189	1192	1213	1215	1320	1292	50- 60	1660	14216	92.6,92.6
70	489.5	497.7	459.9	447.0	449.0	461.2	535.2	505.0	60- 70	816.6	15032	98,98
80	117.5	104.7	97.03	94.18	97.03	108.7	119.3	114.8	70- 80	268.3	15301	99.7,99.7
90	9.903	9.913	9.977	9.928	12.74	12.72	12.92	12.84	80- 90	45.40	15346	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		

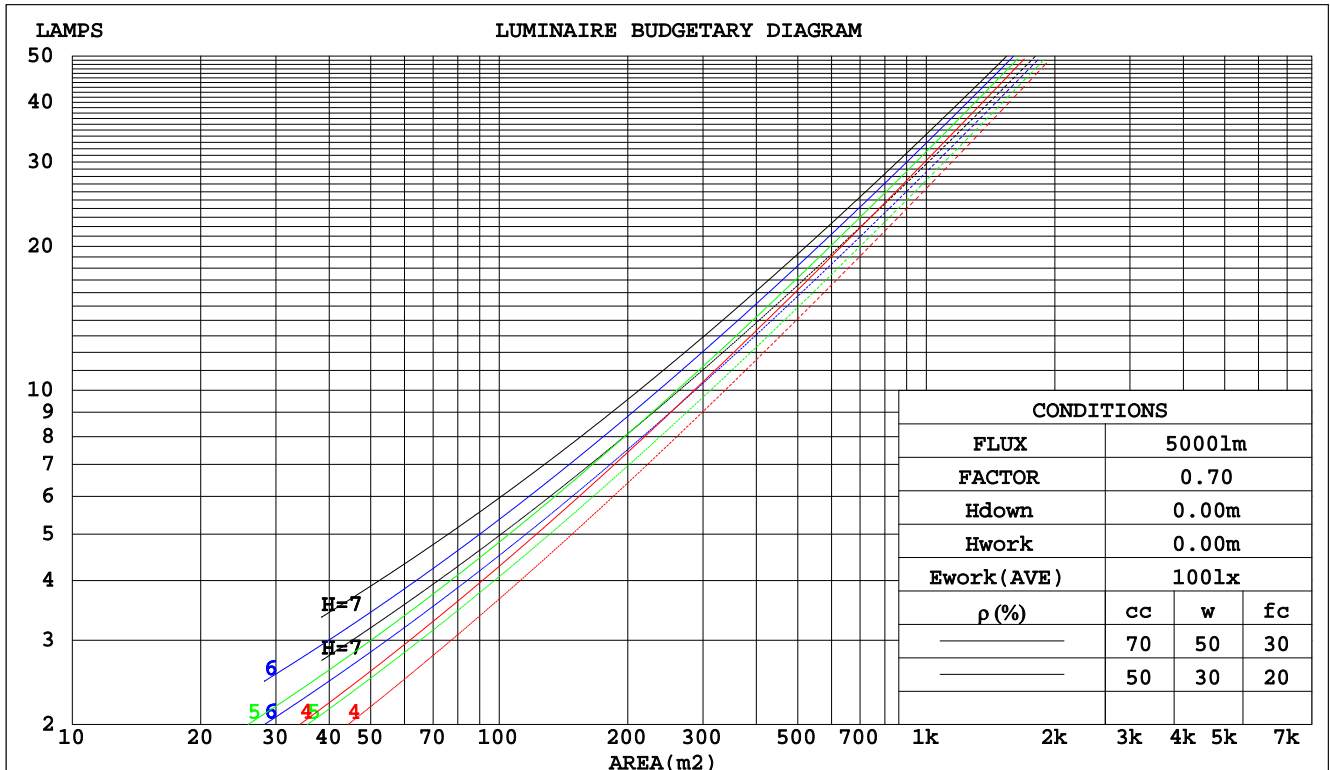
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2022-03-21

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
 Humidity:65.0%
 Test Distance:6.700m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:231.6V I:0.4426A P:101.4W PF:0.9892 Lamp Flux:15346x1 lm		
NAME: 270787	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:0.191	PROTECTION ANGLE:0.14

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															



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2022-03-21

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
 Humidity:65.0%
 Test Distance:6.700m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:231.6V I:0.4426A P:101.4W PF:0.9892 Lamp Flux:15346x1 lm								
NAME: 270787				TYPE:			WEIGHT:	
DIM.:				SPEC.:			SERIAL No.:	
MFR.:				SUR.:0.191			PROTECTION ANGLE:0.14	

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	.240	.137	.043	.233	.133	.042	.220	.126	.040	.208	.120	.039	.198	.115	.037	
2.0	.234	.128	.039	.228	.126	.039	.217	.121	.037	.207	.116	.036	.197	.111	.035	
3.0	.223	.119	.036	.218	.117	.035	.208	.113	.034	.199	.109	.033	.191	.106	.033	
4.0	.211	.110	.032	.206	.108	.032	.198	.105	.031	.190	.102	.031	.182	.099	.030	
5.0	.199	.101	.029	.195	.100	.029	.187	.098	.029	.180	.095	.028	.174	.093	.028	
6.0	.188	.094	.027	.184	.093	.027	.177	.091	.026	.171	.089	.026	.165	.087	.026	
7.0	.177	.088	.025	.174	.087	.025	.168	.085	.024	.162	.083	.024	.157	.082	.024	
8.0	.168	.082	.023	.165	.081	.023	.159	.080	.023	.154	.078	.023	.149	.077	.022	
9.0	.159	.077	.021	.156	.076	.021	.151	.075	.021	.147	.074	.021	.142	.072	.021	
10.0	.151	.072	.020	.148	.072	.020	.144	.071	.020	.140	.069	.020	.136	.068	.020	

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	.175	.157	.140	.150	.135	.120	.103	.093	.083	.059	.054	.048	.019	.017	.016	
2.0	.165	.132	.105	.141	.114	.091	.097	.079	.063	.056	.046	.037	.018	.015	.012	
3.0	.155	.114	.081	.133	.098	.070	.091	.068	.049	.053	.040	.029	.017	.013	.010	
4.0	.147	.100	.064	.127	.087	.056	.087	.060	.039	.050	.035	.023	.016	.011	.008	
5.0	.140	.089	.052	.120	.077	.045	.083	.054	.032	.048	.032	.019	.015	.010	.006	
6.0	.134	.081	.043	.115	.070	.037	.079	.049	.026	.046	.029	.016	.015	.009	.005	
7.0	.127	.074	.036	.110	.064	.031	.076	.045	.022	.044	.026	.013	.014	.009	.004	
8.0	.122	.068	.031	.105	.059	.027	.072	.041	.019	.042	.024	.011	.014	.008	.004	
9.0	.116	.063	.027	.100	.055	.024	.069	.038	.017	.040	.023	.010	.013	.007	.003	
10.0	.111	.059	.024	.096	.051	.021	.066	.036	.015	.039	.021	.009	.013	.007	.003	

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2022-03-21

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity:65.0%
Test Distance:6.700m [K=1.0000]
Remarks:

Uncorrected UGR Table

Test:U:231.6V I:0.4426A P:101.4W PF:0.9892 Lamp Flux:15346x1 lm											
NAME: 270787					TYPE:			WEIGHT:			
DIM.:					SPEC.:			SERIAL No.:			
MFR.:					SUR.:0.191			PROTECTION ANGLE:0.14			
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	29.2	30.5	29.4	30.7	30.8	29.1	30.4	29.3	30.6	30.8	
	3H	29.5	30.7	29.7	30.9	31.1	29.3	30.6	29.6	30.8	31.0
	4H	29.5	30.6	29.8	30.9	31.1	29.4	30.5	29.7	30.7	31.0
	6H	29.4	30.5	29.8	30.8	31.0	29.3	30.4	29.6	30.6	30.9
	8H	29.4	30.4	29.7	30.7	31.0	29.3	30.3	29.6	30.6	30.8
	12H	29.4	30.4	29.7	30.6	30.9	29.2	30.2	29.6	30.5	30.8
4H	2H	29.3	30.4	29.6	30.6	30.9	29.2	30.3	29.5	30.6	30.8
	3H	29.7	30.7	30.0	30.9	31.2	29.6	30.5	29.9	30.8	31.1
	4H	29.7	30.6	30.1	30.9	31.3	29.6	30.5	30.0	30.8	31.1
	6H	29.7	30.5	30.1	30.9	31.2	29.6	30.4	30.0	30.7	31.1
	8H	29.7	30.5	30.1	30.8	31.2	29.6	30.3	30.0	30.7	31.0
	12H	29.7	30.4	30.1	30.7	31.1	29.5	30.2	30.0	30.6	31.0
8H	4H	29.7	30.4	30.1	30.8	31.1	29.6	30.3	30.0	30.7	31.0
	6H	29.7	30.3	30.2	30.7	31.1	29.6	30.2	30.0	30.6	31.0
	8H	29.7	30.2	30.2	30.7	31.1	29.6	30.1	30.0	30.5	31.0
	12H	29.7	30.2	30.2	30.6	31.1	29.5	30.0	30.0	30.4	30.9
12H	4H	29.7	30.3	30.1	30.7	31.1	29.5	30.2	30.0	30.6	31.0
	6H	29.7	30.2	30.2	30.6	31.1	29.6	30.1	30.0	30.5	30.9
	8H	29.7	30.1	30.2	30.6	31.1	29.5	30.0	30.0	30.4	30.9
Variations with the observer position at spacings:											
S = 1.0H	+ 1.1 / - 1.5					+ 1.1 / - 1.6					
1.5H	+ 0.9 / - 1.0					+ 1.1 / - 1.1					
2.0H	+ 2.5 / - 1.8					+ 2.4 / - 1.8					

CIE Pub.117 Corrected 15346 lm Total Lamp Luminous Flux.(8log(F/F0) = 9.5)

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2022-03-21

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity:65.0%
Test Distance:6.700m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:231.6V I:0.4426A P:101.4W PF:0.9892 Lamp Flux:15346x1 lm		
NAME: 270787	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:0.191	PROTECTION ANGLE:0.14

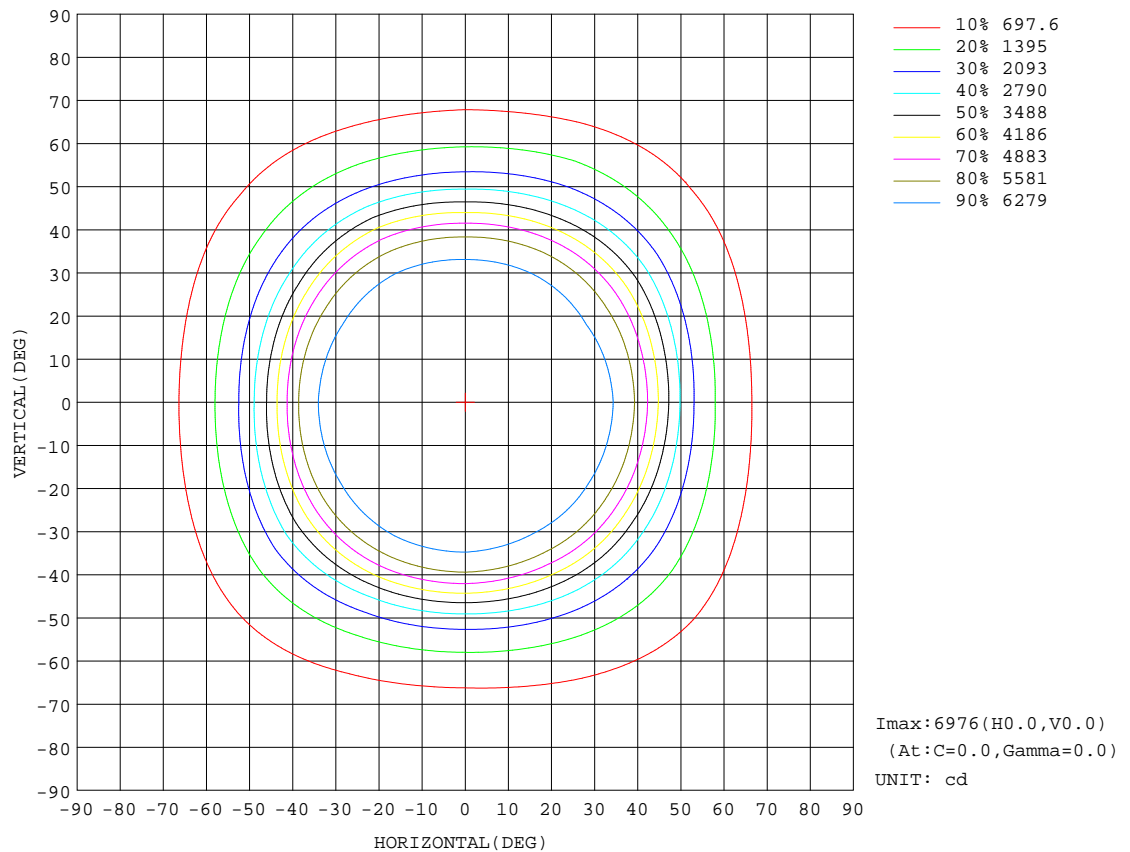
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	67	58	52	67	57	52	66	57	51	46
0.80	77	68	62	77	68	62	75	67	61	56
1.00	85	77	71	84	76	70	82	77	70	64
1.25	92	84	78	91	83	78	88	82	77	71
1.50	96	88	83	95	88	83	92	86	82	75
2.00	101	95	90	100	94	89	97	92	88	81
2.50	104	98	94	102	97	93	99	95	91	84
3.00	107	102	98	105	100	97	101	97	94	87
4.00	110	106	102	108	104	101	104	101	98	90
5.00	112	108	105	109	106	103	105	103	100	92
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2022-03-21

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity:65.0%
Test Distance:6.700m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:231.6V I:0.4426A P:101.4W PF:0.9892 Lamp Flux:15346x1 lm		
NAME: 270787	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:0.191	PROTECTION ANGLE:0.14

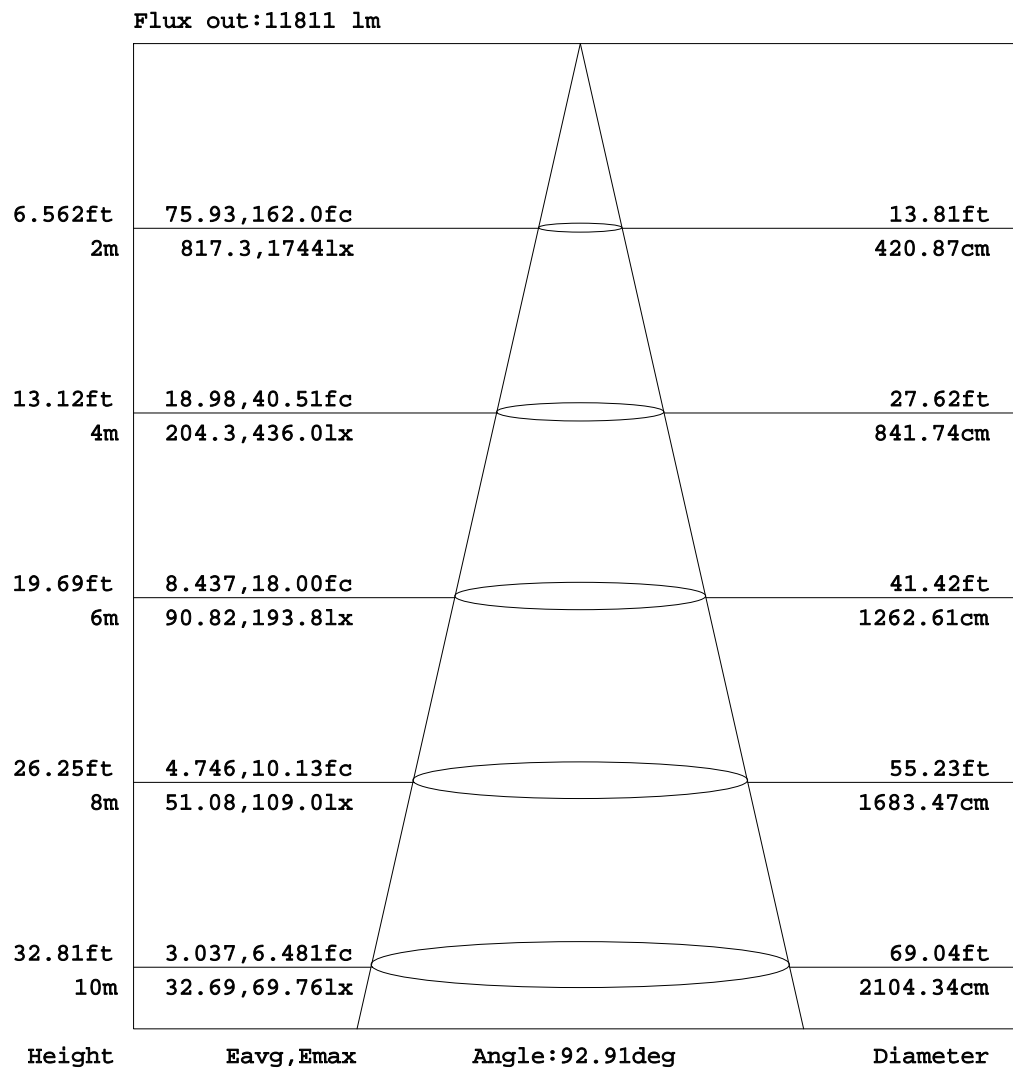


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2022-03-21

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity:65.0%
Test Distance:6.700m [K=1.0000]
Remarks:

AAI Figure

Test:U:231.6V I:0.4426A P:101.4W PF:0.9892 Lamp Flux:15346x1 lm		
NAME: 270787	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:0.191	PROTECTION ANGLE:0.14



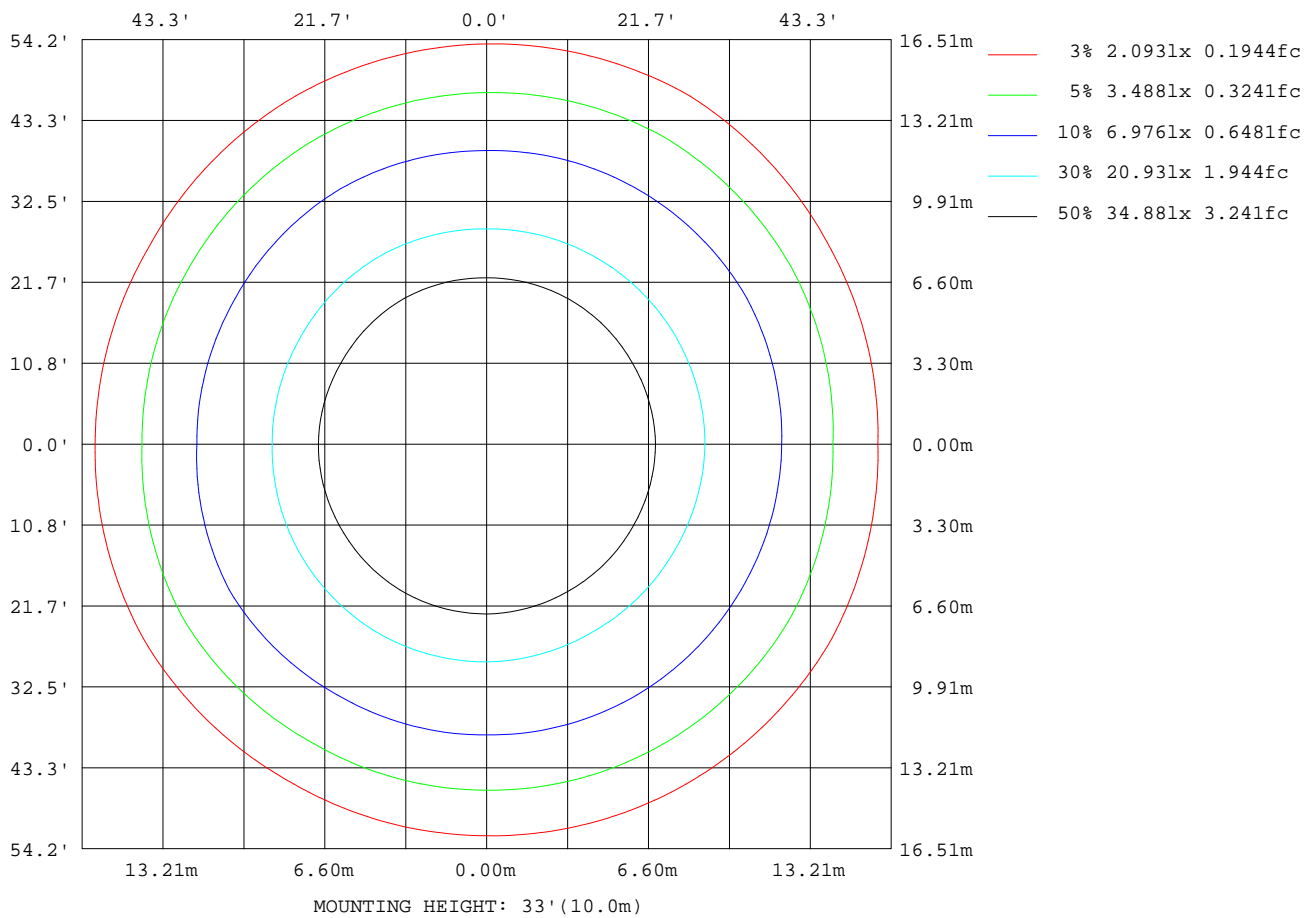
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2022-03-21

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity: 65.0%
Test Distance: 6.700m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

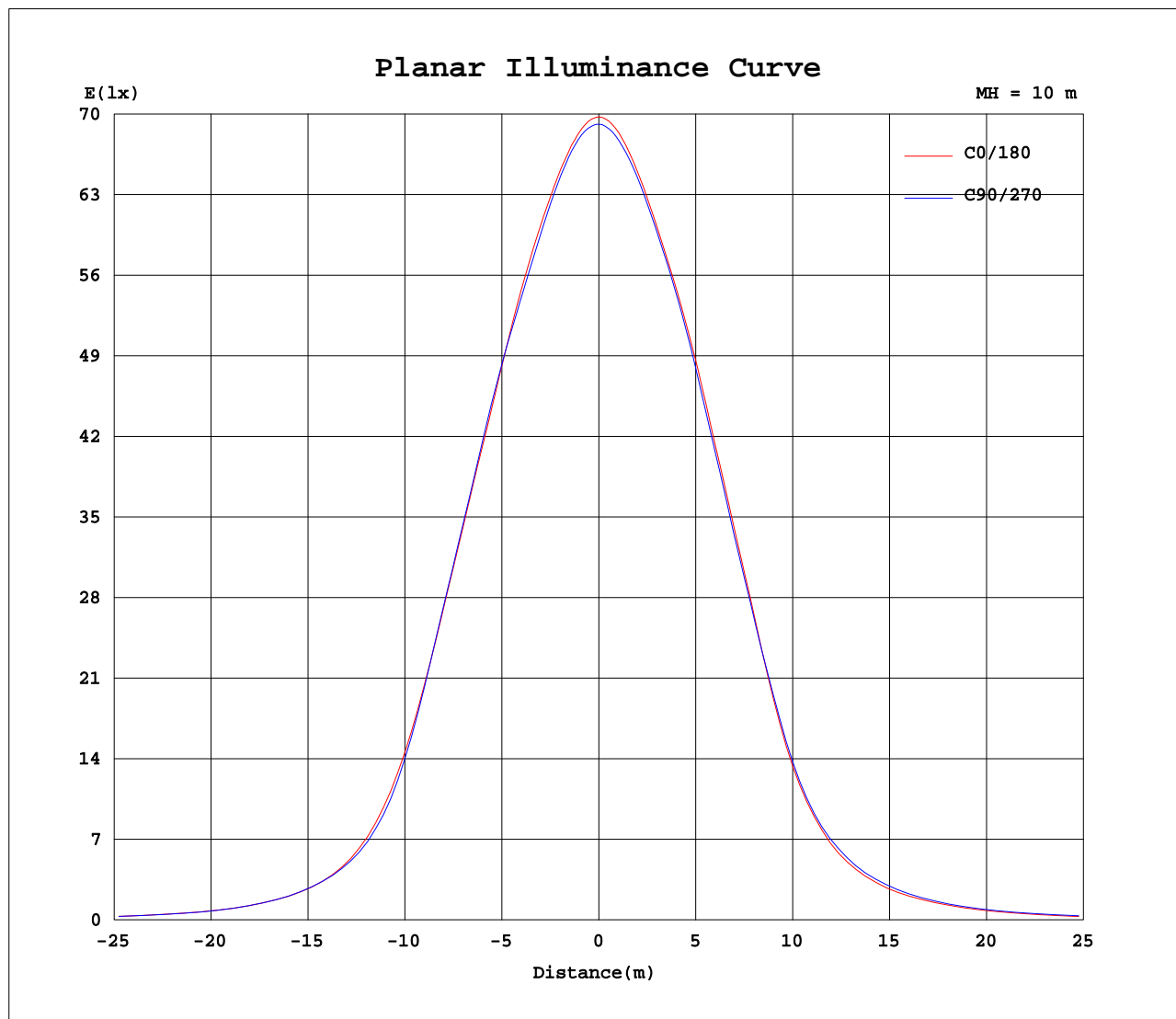
Test:U:231.6V I:0.4426A P:101.4W PF:0.9892 Lamp Flux:15346x1 lm		
NAME: 270787	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:0.191	PROTECTION ANGLE:0.14



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2022-03-21

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity:65.0%
Test Distance:6.700m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2022-03-21

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity: 65.0%
Test Distance: 6.700m [K=1.0000]
Remarks:

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γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity:65.0%
Test Distance:6.700m [K=1.0000]
Remarks:

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