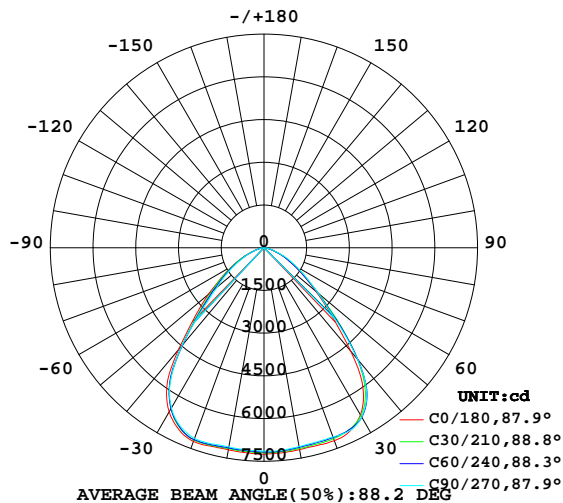


LUMINAIRE PHOTOMETRIC TEST REPORT

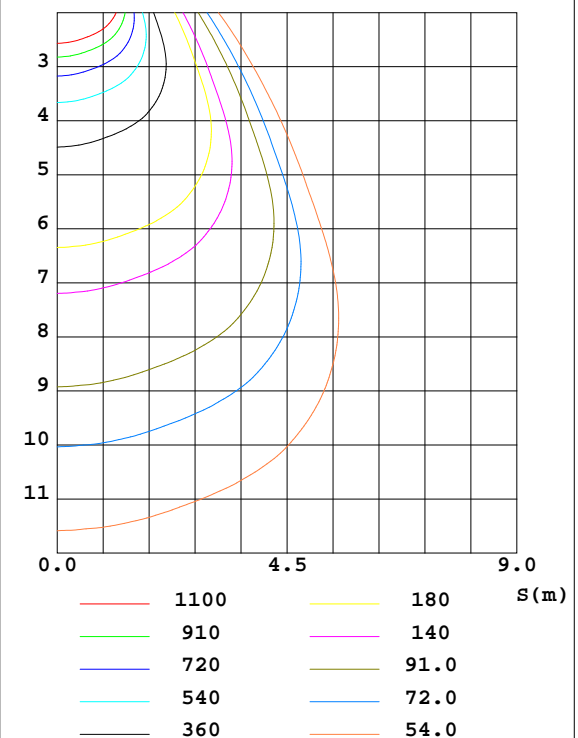
Test:U:231.6V I:0.4393A P:100.7W PF:0.9898 Lamp Flux:14979.2x1 lm		
NAME: 270763	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:0.191	PROTECTION ANGLE:0.14

DATA OF LAMP		PHOTOMETRIC DATA Eff: 148.76 lm/W			
MODEL	270763	I _{max} (cd)	7249	S/MH(C0/180)	1.25
NOMINAL POWER(W)	102	LOR(%)	100.0	S/MH(C90/270)	1.29
RATED VOLTAGE(V)	232	TOTAL FLUX(lm)	14979	η UP,DN(C0-180)	0.0,51.2
NOMINAL FLUX(lm)	14979.2	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,48.8
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	231.6	η down(%)	100.0	CIBSE SHR MAX	1.30

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:6.800m [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	7196	7137	7089	7066	7207	7148	7100	7065	0- 10	681.3	681.3	4.55,4.55
20	7211	7113	7068	7051	7237	7182	7124	7083	10- 20	2018	2700	18,18
30	6774	6840	6862	6731	6659	6529	6500	6540	20- 30	3221	5920	39.5,39.5
40	4742	5127	5122	5097	4671	4454	4474	4466	30- 40	3685	9605	64.1,64.1
50	2382	2482	2479	2490	2547	2358	2159	2249	40- 50	2656	12261	81.9,81.9
60	1196	1220	1296	1228	1284	1218	1140	1140	50- 60	1552	13813	92.2,92.2
70	480.5	491.7	533.7	518.1	521.0	485.4	456.9	439.1	60- 70	818.9	14632	97.7,97.7
80	125.0	126.1	132.5	140.1	138.2	132.5	119.3	116.7	70- 80	292.0	14924	99.6,99.6
90	9.092	9.136	9.242	9.566	13.18	12.66	12.59	12.48	80- 90	55.56	14979	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		

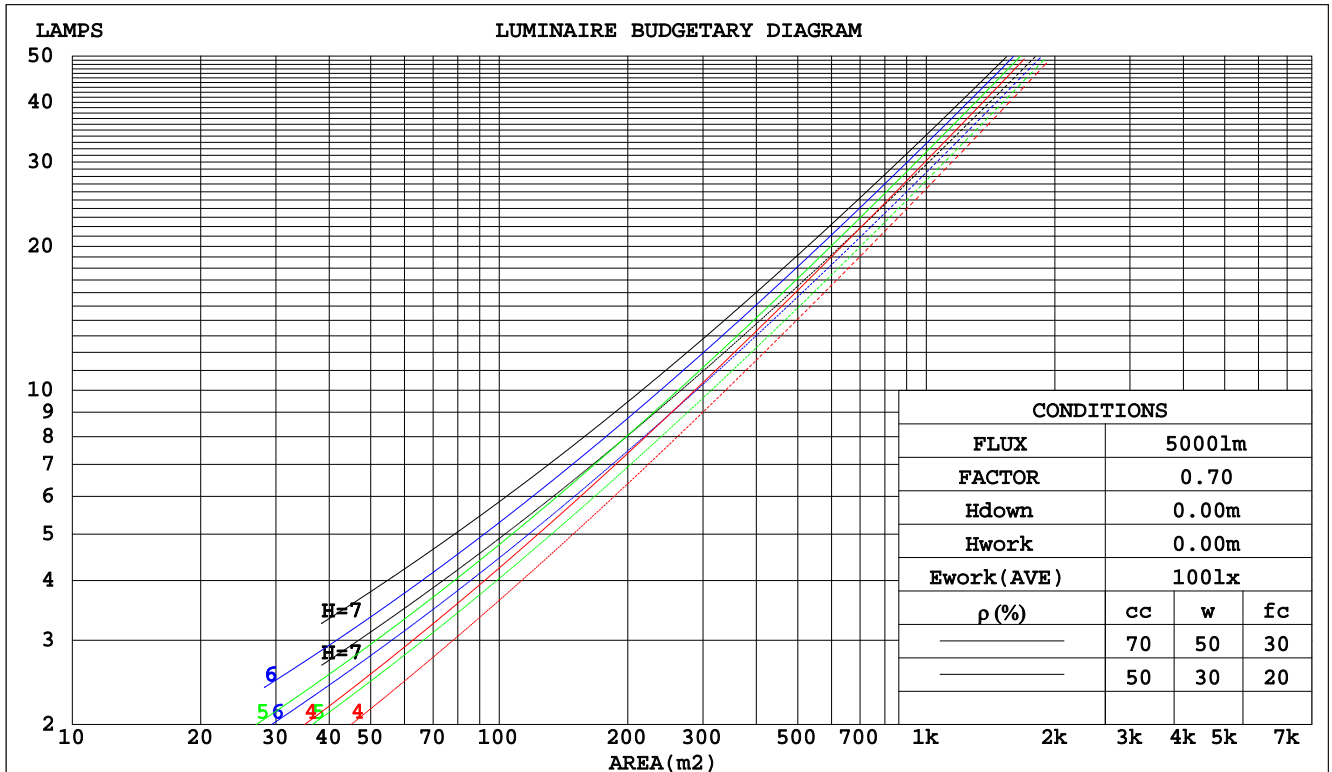
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2022-03-21

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
 Humidity:65.0%
 Test Distance:6.800m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:231.6V I:0.4393A P:100.7W PF:0.9898 Lamp Flux:14979.2x1 lm		
NAME: 270763	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	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	1.08	1.04	1.01	1.05	1.02	.00	1.01	.99	.96	.97	.95	.94	.94	.92	.91	.89
2.0	.97	.91	.87	.95	.90	.86	.91	.87	.84	.88	.85	.82	.85	.83	.80	.78
3.0	.87	.80	.75	.86	.79	.74	.83	.77	.73	.80	.76	.72	.78	.74	.71	.69
4.0	.79	.71	.66	.77	.70	.65	.75	.69	.64	.73	.68	.63	.71	.66	.63	.61
5.0	.71	.64	.58	.70	.63	.58	.68	.62	.57	.67	.61	.57	.65	.60	.56	.54
6.0	.65	.57	.52	.64	.57	.51	.63	.56	.51	.61	.55	.51	.59	.54	.50	.48
7.0	.60	.52	.46	.59	.52	.46	.57	.51	.46	.56	.50	.46	.55	.49	.45	.44
8.0	.55	.47	.42	.54	.47	.42	.53	.46	.42	.52	.46	.41	.51	.45	.41	.40
9.0	.51	.43	.38	.50	.43	.38	.49	.43	.38	.48	.42	.38	.47	.42	.38	.36
10.0	.47	.40	.35	.47	.40	.35	.46	.39	.35	.45	.39	.35	.44	.38	.35	.33



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:6.800m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:231.6V I:0.4393A P:100.7W PF:0.9898 Lamp Flux:14979.2x1 lm								
NAME: 270763			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	.239	.136	.043	.233	.133	.042	.220	.126	.040	.208	.120	.038	.197	.114	.037	
2.0	.232	.127	.039	.227	.125	.038	.215	.120	.037	.205	.115	.036	.196	.111	.035	
3.0	.221	.118	.035	.216	.116	.035	.206	.112	.034	.197	.108	.033	.189	.104	.032	
4.0	.209	.108	.032	.204	.107	.032	.196	.104	.031	.188	.101	.030	.180	.098	.030	
5.0	.197	.100	.029	.193	.099	.029	.185	.096	.028	.178	.094	.028	.172	.092	.028	
6.0	.186	.093	.027	.182	.092	.026	.175	.090	.026	.169	.088	.026	.163	.086	.025	
7.0	.175	.087	.025	.172	.086	.024	.166	.084	.024	.160	.082	.024	.155	.081	.024	
8.0	.166	.081	.023	.163	.080	.023	.158	.079	.022	.152	.077	.022	.148	.076	.022	
9.0	.157	.076	.021	.155	.075	.021	.150	.074	.021	.145	.073	.021	.141	.071	.021	
10.0	.149	.071	.020	.147	.071	.020	.142	.070	.020	.138	.069	.020	.134	.068	.019	

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	.164	.132	.105	.141	.114	.091	.096	.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	.126	.086	.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	.133	.081	.043	.114	.070	.038	.079	.049	.027	.046	.029	.016	.015	.009	.005	
7.0	.127	.074	.036	.109	.064	.032	.075	.045	.022	.044	.026	.013	.014	.009	.004	
8.0	.121	.068	.031	.104	.059	.027	.072	.041	.019	.042	.024	.012	.014	.008	.004	
9.0	.115	.063	.027	.099	.054	.024	.069	.038	.017	.040	.023	.010	.013	.007	.003	
10.0	.110	.058	.024	.095	.051	.021	.066	.036	.015	.038	.021	.009	.012	.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:6.800m [K=1.0000]
Remarks:

Uncorrected UGR Table

Test:U:231.6V I:0.4393A P:100.7W PF:0.9898 Lamp Flux:14979.2x1 lm											
NAME: 270763					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	2H	28.9	30.2	29.1	30.4	30.6	29.0	30.3	29.2	30.5	30.7
	3H	29.2	30.4	29.5	30.7	30.9	29.4	30.6	29.7	30.8	31.0
	4H	29.3	30.4	29.6	30.7	30.9	29.4	30.6	29.7	30.8	31.0
	6H	29.3	30.3	29.6	30.6	30.9	29.4	30.5	29.8	30.8	31.0
	8H	29.3	30.3	29.6	30.5	30.8	29.4	30.4	29.7	30.7	31.0
	12H	29.2	30.2	29.6	30.5	30.8	29.4	30.4	29.7	30.6	30.9
4H	2H	29.0	30.2	29.3	30.4	30.6	29.1	30.2	29.4	30.5	30.7
	3H	29.5	30.5	29.8	30.7	31.0	29.6	30.6	29.9	30.9	31.1
	4H	29.6	30.5	30.0	30.8	31.1	29.7	30.6	30.1	30.9	31.2
	6H	29.6	30.4	30.0	30.7	31.1	29.8	30.5	30.2	30.9	31.2
	8H	29.6	30.3	30.0	30.7	31.1	29.8	30.5	30.2	30.8	31.2
	12H	29.6	30.2	30.0	30.6	31.0	29.7	30.4	30.2	30.8	31.2
8H	4H	29.6	30.3	30.0	30.6	31.0	29.7	30.4	30.1	30.8	31.1
	6H	29.6	30.2	30.1	30.6	31.0	29.8	30.4	30.2	30.8	31.2
	8H	29.6	30.2	30.1	30.6	31.0	29.8	30.3	30.2	30.7	31.2
	12H	29.6	30.1	30.1	30.5	31.0	29.8	30.2	30.3	30.7	31.1
12H	4H	29.5	30.2	30.0	30.6	31.0	29.7	30.3	30.1	30.7	31.1
	6H	29.6	30.1	30.1	30.6	31.0	29.7	30.3	30.2	30.7	31.1
	8H	29.6	30.1	30.1	30.5	31.0	29.8	30.2	30.2	30.7	31.1
Variations with the observer position at spacings:											
S = 1.0H		+ 1.0 / - 1.4					+ 1.0 / - 1.3				
1.5H		+ 1.0 / - 0.9					+ 1.1 / - 1.0				
2.0H		+ 1.9 / - 1.3					+ 1.9 / - 1.6				

CIE Pub.117 Corrected 14979 lm Total Lamp Luminous Flux.(8log(F/F0) = 9.4)

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:6.800m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:231.6V I:0.4393A P:100.7W PF:0.9898 Lamp Flux:14979.2x1 lm		
NAME: 270763	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:0.191	PROTECTION ANGLE:0.14

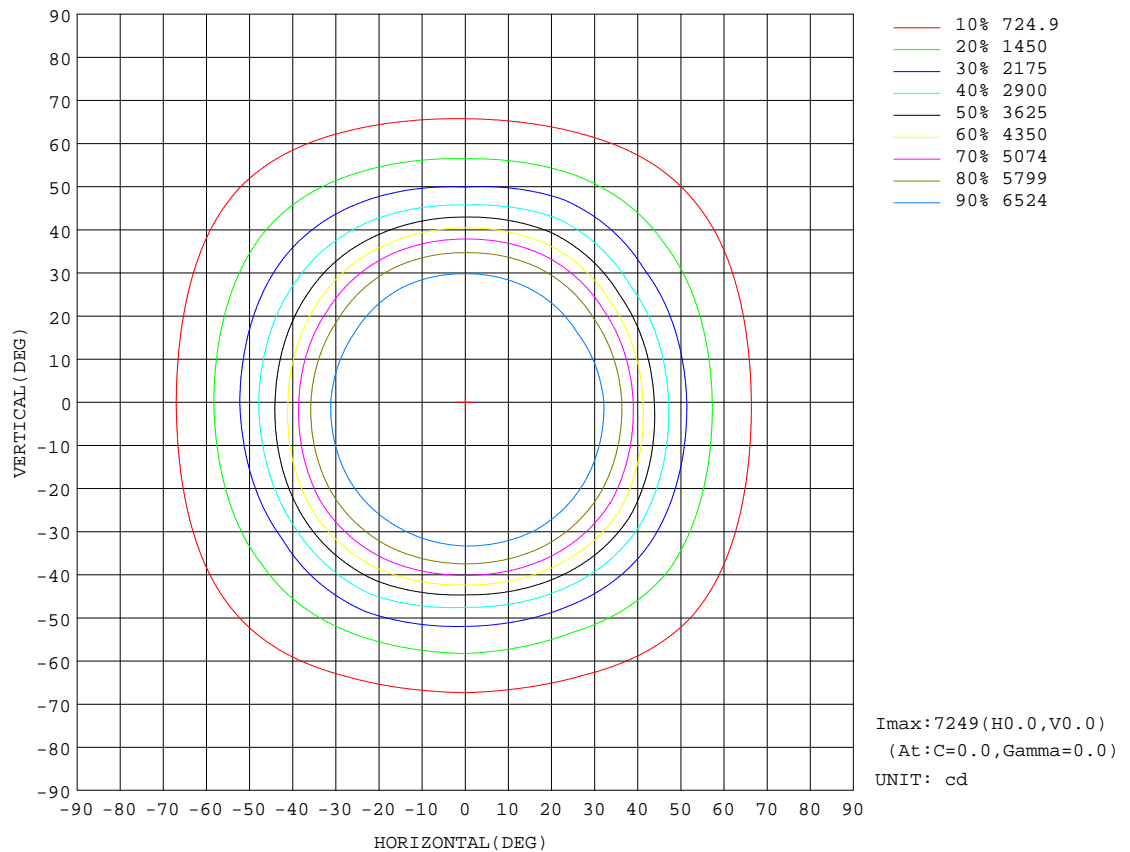
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	69	59	54	68	59	53	67	59	53	48
0.80	79	69	63	78	69	63	76	68	63	57
1.00	86	78	72	85	77	72	83	78	71	65
1.25	92	84	79	91	84	79	89	82	78	72
1.50	97	89	84	95	88	83	92	87	82	76
2.00	102	95	91	100	94	90	97	92	88	82
2.50	105	99	94	103	97	93	99	95	91	84
3.00	107	102	98	105	101	97	101	98	95	87
4.00	110	106	102	108	104	101	104	101	98	90
5.00	112	108	105	109	106	104	105	103	101	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:6.800m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:231.6V I:0.4393A P:100.7W PF:0.9898 Lamp Flux:14979.2x1 lm		
NAME: 270763	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:0.191	PROTECTION ANGLE:0.14



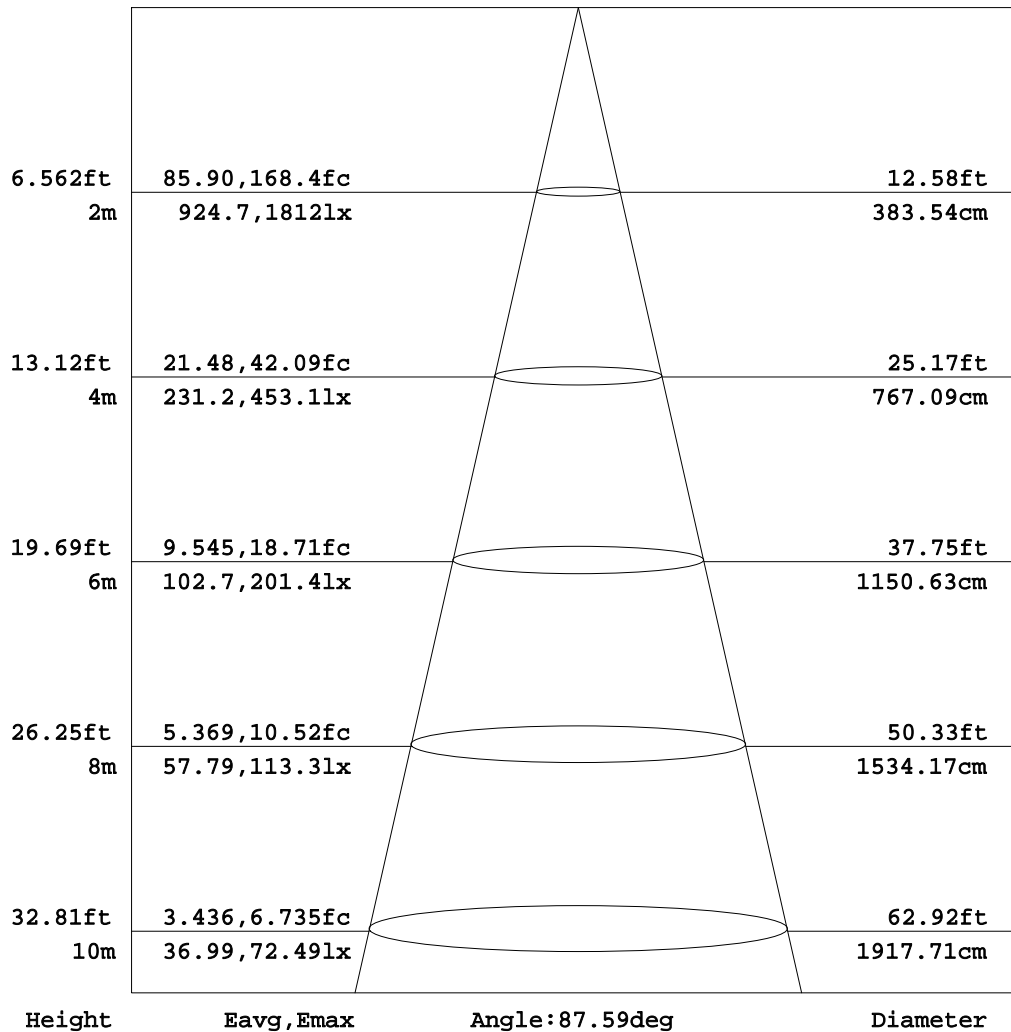
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2022-03-21

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity: 65.0%
Test Distance: 6.800m [K=1.0000]
Remarks:

AAI Figure

Test:U:231.6V I:0.4393A P:100.7W PF:0.9898 Lamp Flux:14979.2x1 lm		
NAME: 270763	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:0.191	PROTECTION ANGLE:0.14

Flux out:10836 lm



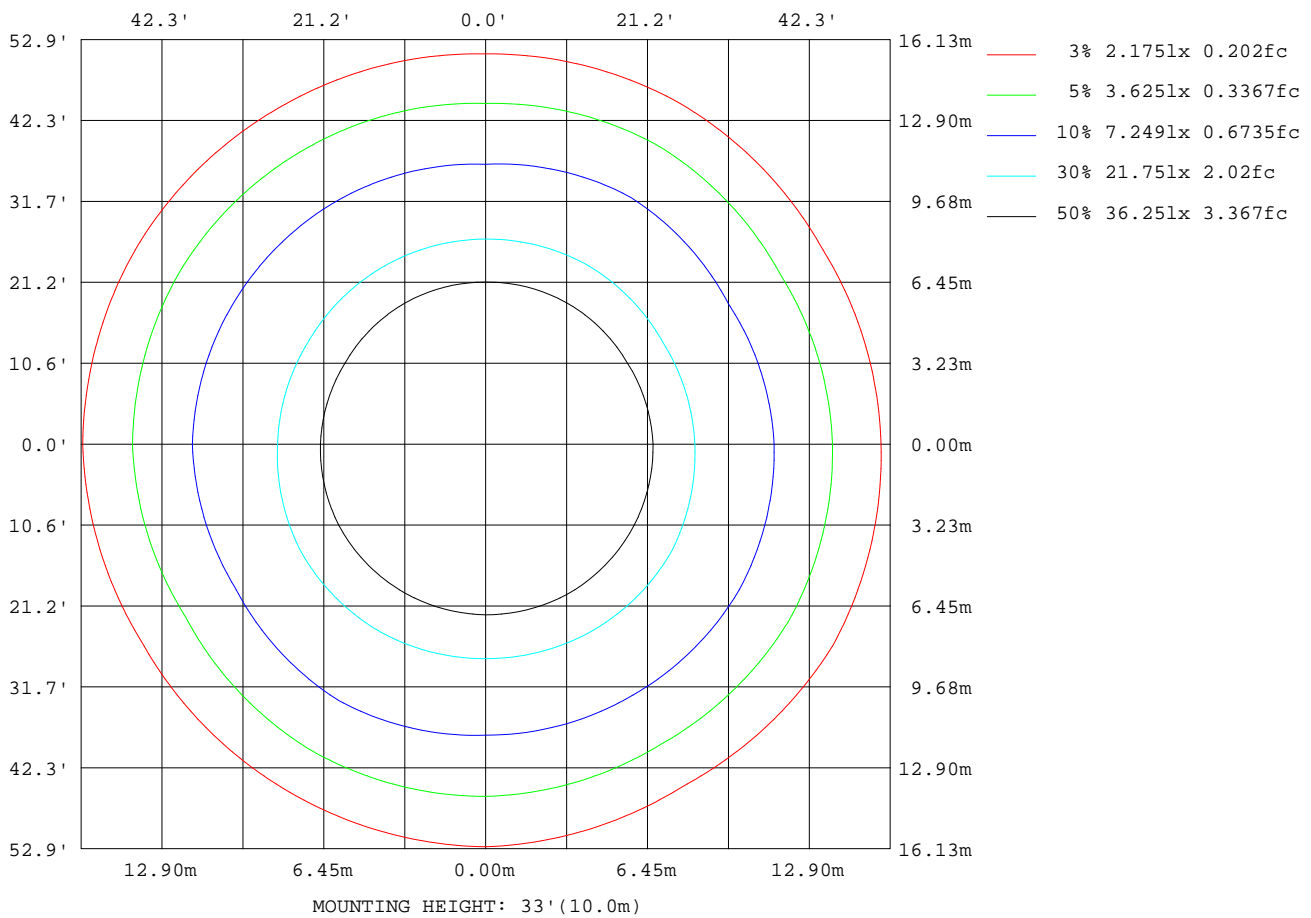
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:6.800m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

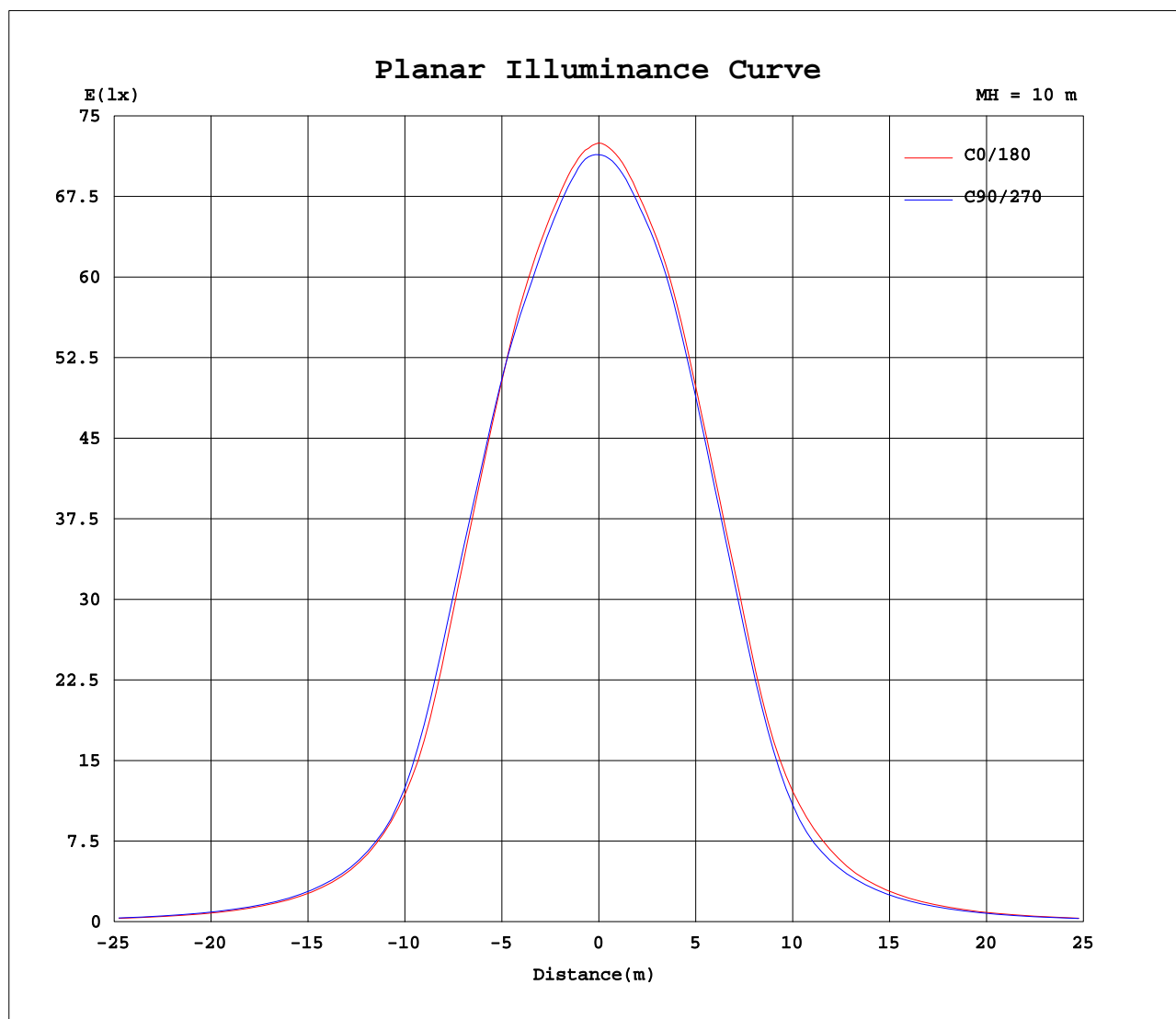
Test:U:231.6V I:0.4393A P:100.7W PF:0.9898 Lamp Flux:14979.2x1 lm		
NAME: 270763	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:0.191	PROTECTION ANGLE:0.14



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: 6.800m [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: 6.800m [K=1.0000]
Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity:65.0%
Test Distance:6.800m [K=1.0000]
Remarks:

```