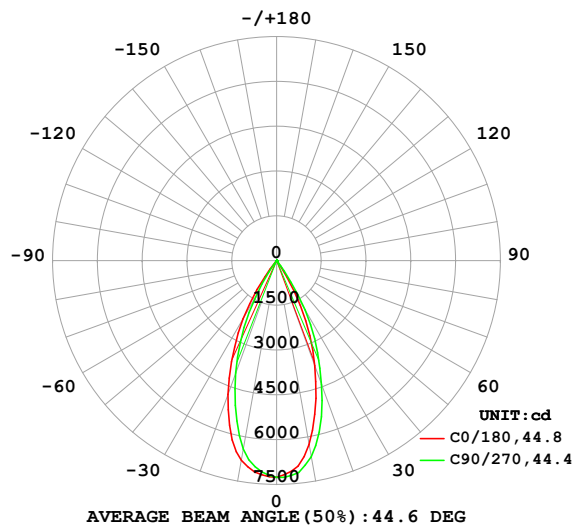


LUMINAIRE PHOTOMETRIC TEST REPORT

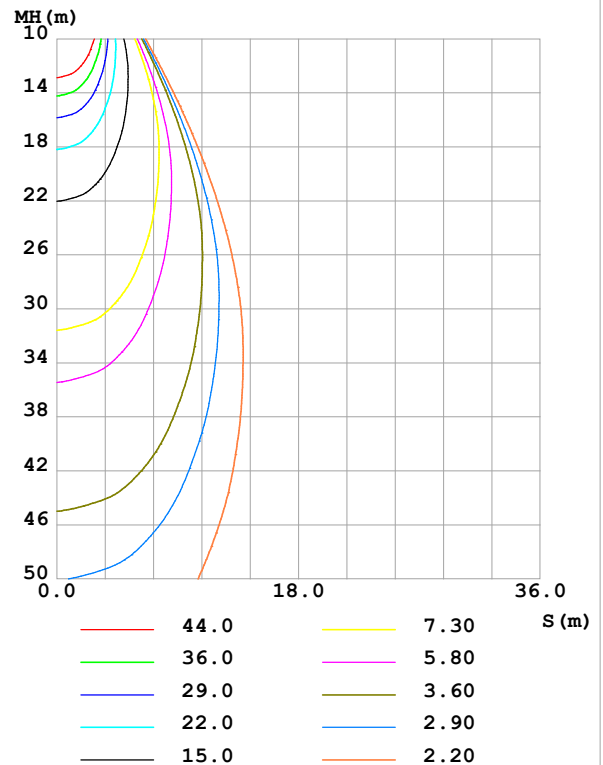
Test:U:230.15V I:0.157A P:33.61W PF:0.930 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:4694.6x1 lm		
NAME: T1242-900mA-36D-3090		
SPEC.: Xi 42W/a0.9-1.05A 40V		
MFR.: SOTEN		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 116.44 lm/W			
MODEL	PW 1208	Imax (cd)	7272	S/MH (C0/180)	0.76
NOMINAL POWER (W)	36	LOR (%)	83.4	S/MH (C90/270)	0.69
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	3913.4	η UP, DN (C0-180)	0.0, 42.9
NOMINAL FLUX (lm)	4694.6	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 40.5
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE (V)	230	η down (%)	83.4	CIBSE SHR MAX	0.75

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature: 25.3 °C
Operators: Li
Test Date: 2024-08-29

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.485
Humidity: 65.0%
Test Distance: 8.458m [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	6261	6471	6672	6850	6799	6672	6419	6172	0- 10	660.2	660.2	16.9,14.1
20	3747	4017	4416	4795	4775	4483	4013	3659	10- 20	1515	2175	55.6,46.3
30	1166	1474	1915	2296	2256	1906	1430	1085	20- 30	1340	3515	89.8,74.9
40	12.68	17.32	38.52	83.50	70.26	41.65	18.46	11.58	30- 40	386.8	3902	99.7,83.1
50	2.802	3.194	3.952	4.990	5.164	4.161	3.242	2.682	40- 50	8.627	3911	99.9,83.3
60	0.7205	0.7627	1.040	1.185	1.118	0.8970	0.7013	0.6310	50- 60	1.782	3912	100,83.3
70	0.2940	0.2895	0.3005	0.3164	0.2987	0.2720	0.2652	0.2708	60- 70	0.4697	3913	100,83.3
80	0.2533	0.2386	0.2443	0.2396	0.2482	0.2373	0.2435	0.2345	70- 80	0.2755	3913	100,83.4
90	0.2533	0.2386	0.2494	0.2396	0.2381	0.2233	0.2341	0.2345	80- 90	0.2603	3913	100,83.4
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): 3909 lm

%lum = 99.9%

%lamp = 83.3%

Conical surface Flux(130deg): 3912.7 lm

%lum = 100.0%

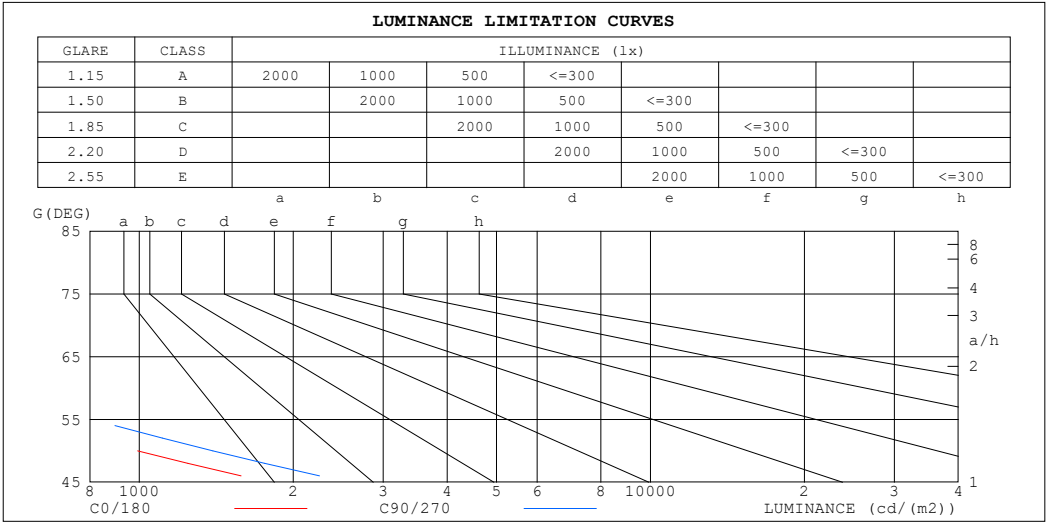
%lamp = 83.3%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: MEDIUM
 Temperature:25.3℃
 Operators:Li
 Test Date:2024-08-29

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.485
 Humidity:65.0%
 Test Distance:8.458m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:230.15V I:0.157A P:33.61W PF:0.930 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:4694.6x1 lm		
NAME: T1242-900mA-36D-3090		
SPEC.: Xi 42W/a0.9-1.05A 40V		
MFR.: SOTEN		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	661	635
80	332	319
75	232	223
70	196	199
65	240	295
60	328	471
55	648	918
50	992	1392
45	2045	3071

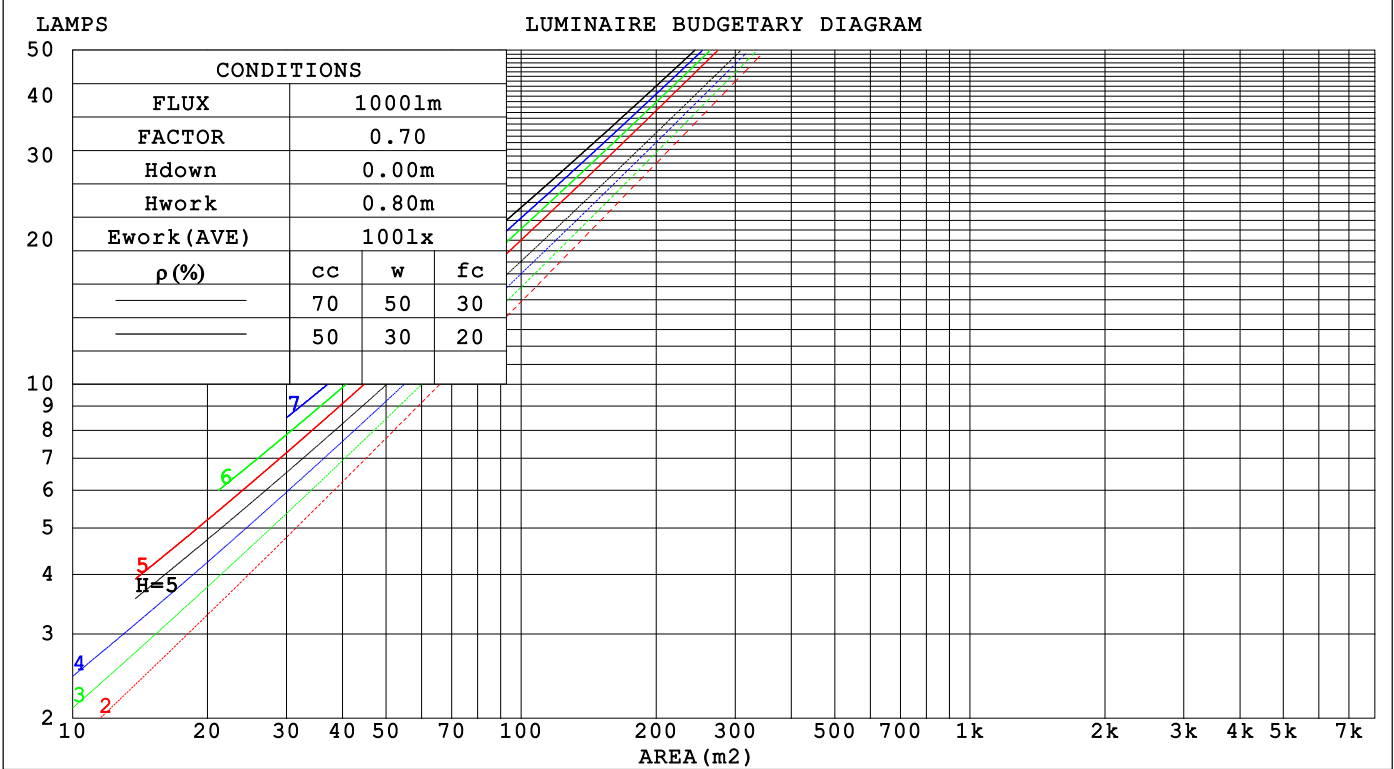
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature:25.3℃
Operators:Li
Test Date:2024-08-29

γ Range: 0 - 90DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.485
Humidity:65.0%
Test Distance:8.458m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.15V I:0.157A P:33.61W PF:0.930 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0		
Lamp Flux:4694.6x1 lm		
NAME: T1242-900mA-36D-3090		
SPEC.: Xi 42W/a0.9-1.05A 40V		
MFR.: SOTEN		

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	.99	.99	.99	.97	.97	.97	.93	.93	.93	.89	.89	.89	.85	.85	.85	.83
1.0	.93	.91	.90	.91	.90	.88	.88	.87	.86	.85	.84	.83	.82	.81	.81	.79
2.0	.88	.85	.83	.87	.84	.82	.84	.82	.80	.81	.80	.78	.79	.78	.77	.75
3.0	.83	.80	.77	.82	.79	.76	.80	.77	.75	.78	.76	.74	.76	.74	.73	.72
4.0	.79	.75	.72	.78	.74	.71	.76	.73	.71	.75	.72	.70	.73	.71	.69	.68
5.0	.75	.71	.68	.74	.70	.67	.73	.69	.67	.71	.69	.66	.70	.68	.66	.65
6.0	.71	.67	.64	.71	.67	.64	.69	.66	.63	.68	.65	.63	.67	.65	.63	.62
7.0	.68	.64	.61	.67	.63	.61	.66	.63	.60	.65	.62	.60	.65	.62	.60	.59
8.0	.65	.61	.58	.64	.60	.58	.64	.60	.57	.63	.60	.57	.62	.59	.57	.56
9.0	.62	.58	.55	.62	.58	.55	.61	.57	.55	.60	.57	.55	.60	.57	.54	.53
10.0	.59	.55	.53	.59	.55	.52	.58	.55	.52	.58	.55	.52	.57	.54	.52	.51



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature:25.3℃
Operators:Li
Test Date:2024-08-29

γ Range: 0 - 90DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.485
Humidity:65.0%
Test Distance:8.458m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:230.15V I:0.157A P:33.61W PF:0.930 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:4694.6x1 lm		
NAME: T1242-900mA-36D-3090		
SPEC.: Xi 42W/a0.9-1.05A 40V		
MFR.: SOTEN		

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	.130	.074	.023	.125	.071	.023	.114	.066	.021	.105	.060	.019	.096	.056	.018															
2.0	.123	.067	.021	.118	.065	.020	.110	.061	.019	.102	.057	.018	.094	.053	.017															
3.0	.116	.062	.019	.112	.060	.018	.105	.057	.017	.098	.054	.017	.092	.051	.016															
4.0	.110	.057	.017	.107	.056	.017	.101	.053	.016	.095	.051	.015	.089	.049	.015															
5.0	.105	.053	.015	.102	.052	.015	.097	.050	.015	.092	.048	.014	.087	.046	.014															
6.0	.100	.050	.014	.098	.049	.014	.093	.048	.014	.089	.046	.014	.084	.044	.013															
7.0	.096	.047	.013	.094	.047	.013	.090	.045	.013	.086	.044	.013	.082	.043	.013															
8.0	.092	.045	.013	.090	.044	.013	.086	.043	.012	.083	.042	.012	.080	.041	.012															
9.0	.088	.043	.012	.087	.042	.012	.083	.041	.012	.080	.040	.012	.077	.039	.011															
10.0	.085	.041	.011	.083	.040	.011	.081	.039	.011	.078	.039	.011	.075	.038	.011															

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	.159	.159	.159	.136	.136	.136	.093	.093	.093	.053	.053	.053	.017	.017	.017	
1.0	.141	.131	.122	.121	.113	.105	.083	.078	.073	.048	.045	.042	.015	.014	.014	
2.0	.128	.111	.096	.109	.095	.083	.075	.066	.058	.043	.038	.034	.014	.012	.011	
3.0	.116	.095	.077	.100	.082	.067	.068	.057	.047	.039	.033	.028	.013	.011	.009	
4.0	.107	.082	.063	.092	.071	.055	.063	.049	.039	.036	.029	.023	.012	.009	.008	
5.0	.099	.072	.052	.085	.062	.045	.058	.044	.032	.034	.026	.019	.011	.008	.006	
6.0	.092	.064	.044	.079	.055	.038	.055	.039	.027	.032	.023	.016	.010	.007	.005	
7.0	.087	.058	.037	.074	.050	.032	.051	.035	.023	.030	.021	.014	.010	.007	.005	
8.0	.082	.052	.032	.070	.045	.028	.049	.032	.020	.028	.019	.012	.009	.006	.004	
9.0	.077	.048	.028	.067	.041	.024	.046	.029	.017	.027	.017	.010	.009	.006	.003	
10.0	.073	.044	.024	.063	.038	.021	.044	.027	.015	.026	.016	.009	.008	.005	.003	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: MEDIUM
 Temperature:25.3℃
 Operators:Li
 Test Date:2024-08-29

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.485
 Humidity:65.0%
 Test Distance:8.458m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:230.15V I:0.157A P:33.61W PF:0.930 Freq:49.99Hz										
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:4694.6x1 lm										
NAME: T1242-900mA-36D-3090										
SPEC.: Xi 42W/a0.9-1.05A 40V										
MFR.: SOTEN										
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	13.4	14.2	13.6	14.4	14.5	18.4	19.2	18.6	19.4	19.6
3H	13.2	14.0	13.5	14.2	14.4	18.3	19.0	18.5	19.2	19.4
4H	13.2	13.9	13.4	14.1	14.3	18.2	18.9	18.5	19.1	19.3
6H	13.1	13.7	13.4	14.0	14.2	18.1	18.8	18.4	19.0	19.2
8H	13.0	13.7	13.3	13.9	14.2	18.1	18.7	18.4	18.9	19.2
12H	13.0	13.6	13.3	13.9	14.1	18.0	18.6	18.3	18.9	19.2
4H 2H	13.2	13.9	13.4	14.1	14.3	18.2	18.9	18.5	19.1	19.3
3H	13.0	13.6	13.3	13.9	14.1	18.0	18.6	18.3	18.9	19.2
4H	12.9	13.4	13.2	13.7	14.0	17.9	18.5	18.3	18.8	19.1
6H	12.8	13.3	13.2	13.6	14.0	17.8	18.3	18.2	18.6	19.0
8H	12.7	13.2	13.1	13.5	13.9	17.8	18.2	18.2	18.6	18.9
12H	12.7	13.1	13.1	13.5	13.9	17.7	18.1	18.1	18.5	18.9
8H 4H	12.7	13.2	13.1	13.5	13.9	17.8	18.2	18.2	18.6	18.9
6H	12.6	13.0	13.1	13.4	13.8	17.7	18.0	18.1	18.4	18.8
8H	12.6	12.9	13.0	13.3	13.8	17.6	17.9	18.0	18.3	18.8
12H	12.5	12.8	13.0	13.2	13.7	17.5	17.8	18.0	18.3	18.7
12H 4H	12.7	13.1	13.1	13.5	13.9	17.7	18.1	18.1	18.5	18.9
6H	12.6	12.9	13.0	13.3	13.8	17.6	17.9	18.0	18.3	18.8
8H	12.5	12.8	13.0	13.2	13.7	17.5	17.8	18.0	18.3	18.7
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 4.6 / - 6.9					+ 7.1 / -20.3				
1.5H	+ 6.9 / - 5.9					+ 9.9 / -19.0				
2.0H	+ 4.0 / - 2.6					+ 5.1 / - 3.9				

CIE Pub.117, 4695 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 5.4)
 Area: 0.00441562 m2

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: MEDIUM
 Temperature:25.3℃
 Operators:Li
 Test Date:2024-08-29

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.485
 Humidity:65.0%
 Test Distance:8.458m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test: U:230.15V I:0.157A P:33.61W PF:0.930 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:4694.6x1 lm		
NAME: T1242-900mA-36D-3090		
SPEC.: Xi 42W/a0.9-1.05A 40V		
MFR.: SOTEN		

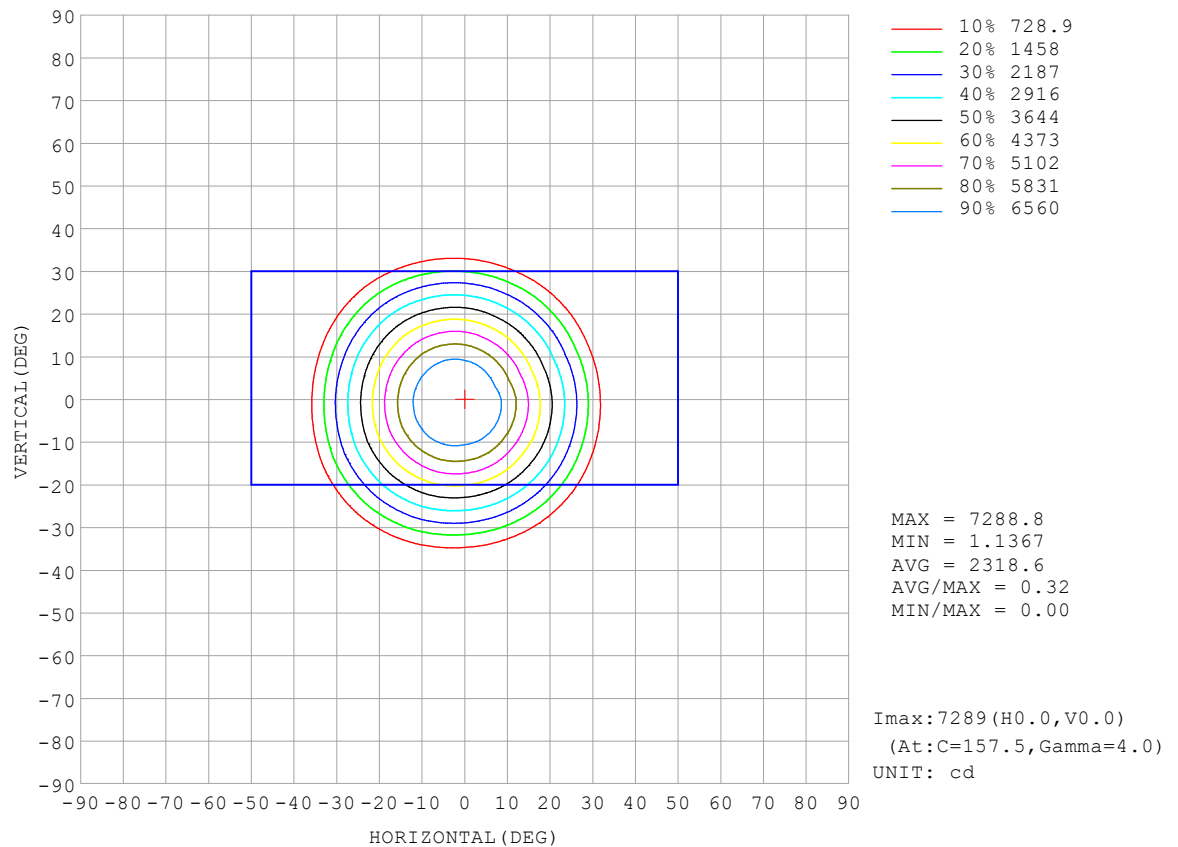
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	76	71	69	76	71	69	75	71	69	66
0.80	82	78	75	81	77	75	80	77	75	72
1.00	85	81	78	84	81	78	83	80	78	75
1.25	88	84	82	87	84	81	86	83	81	77
1.50	90	86	84	89	86	84	87	85	83	79
2.00	92	89	86	91	88	86	88	86	84	80
2.50	93	90	88	92	89	87	89	87	85	81
3.00	94	91	89	93	90	89	90	88	87	82
4.00	96	93	92	94	92	91	91	90	88	83
5.00	97	95	94	95	93	92	92	91	90	83
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: MEDIUM
 Temperature: 25.3°C
 Operators: Li
 Test Date: 2024-08-29

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.485
 Humidity: 65.0%
 Test Distance: 8.458m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test: U:230.15V I:0.157A P:33.61W PF:0.930 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:4694.6x1 lm		
NAME: T1242-900mA-36D-3090		
SPEC.: Xi 42W/a0.9-1.05A 40V		
MFR.: SOTEN		

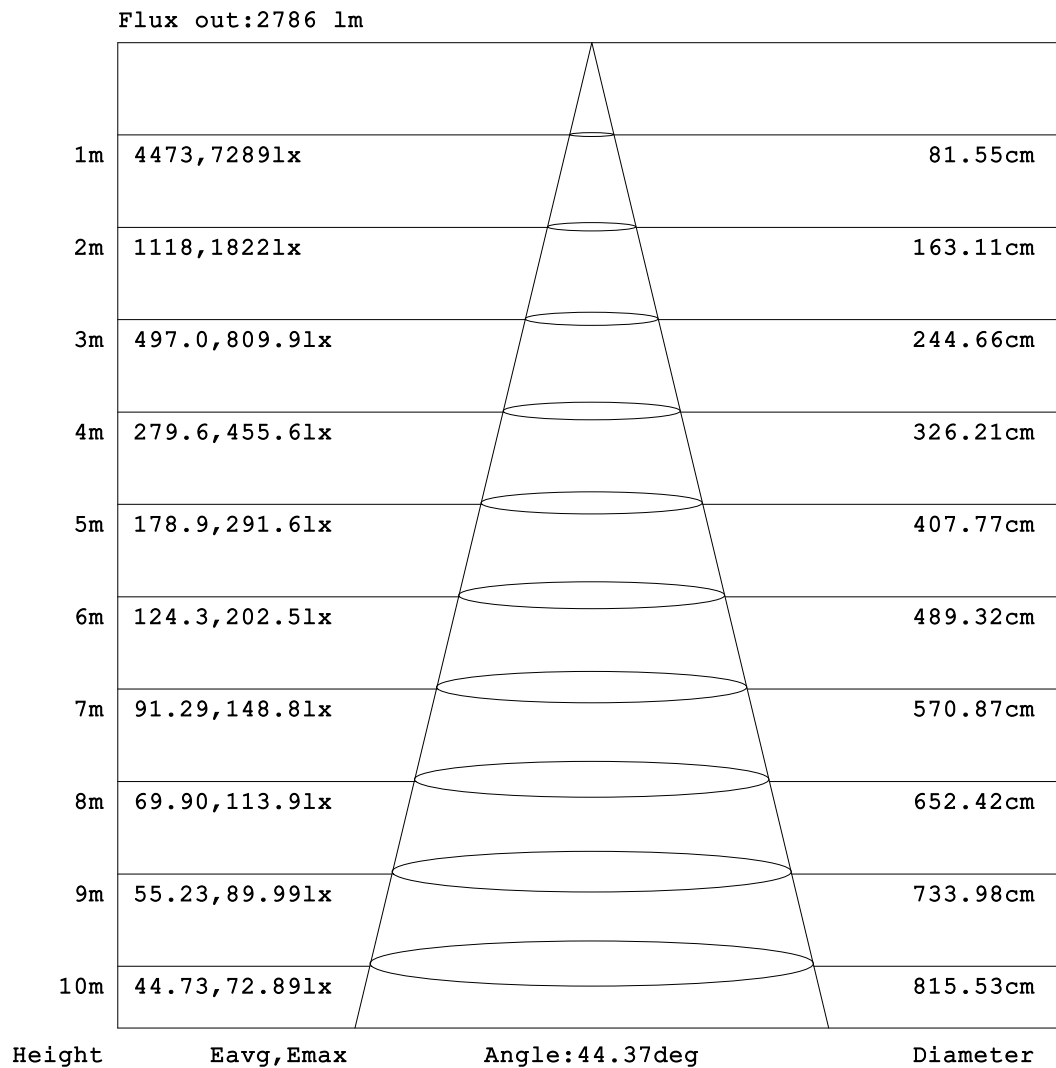


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: MEDIUM
 Temperature: 25.3°C
 Operators: Li
 Test Date: 2024-08-29

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.485
 Humidity: 65.0%
 Test Distance: 8.458m [K=1.0000]
 Remarks:

AAI Figure

Test:U:230.15V I:0.157A P:33.61W PF:0.930 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:4694.6x1 lm		
NAME: T1242-900mA-36D-3090		
SPEC.: Xi 42W/a0.9-1.05A 40V		
MFR.: SOTEN		



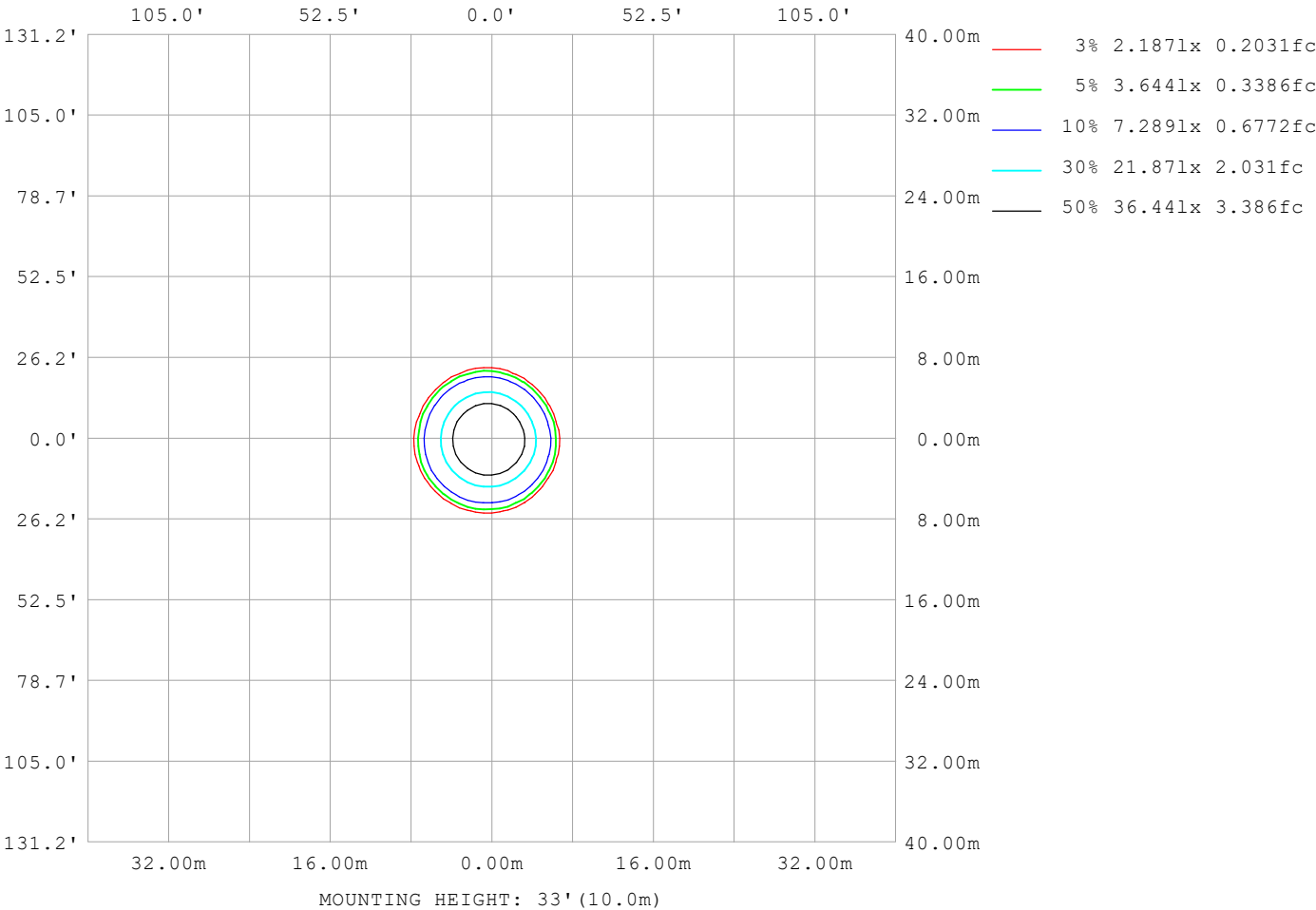
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: MEDIUM
 Temperature:25.3℃
 Operators:Li
 Test Date:2024-08-29

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.485
 Humidity:65.0%
 Test Distance:8.458m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:230.15V I:0.157A P:33.61W PF:0.930 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:4694.6x1 lm		
NAME: T1242-900mA-36D-3090		
SPEC.: Xi 42W/a0.9-1.05A 40V		
MFR.: SOTEN		



C Range: 0 - 360DEG	γ Range: 0 - 90DEG
C Interval: 22.5DEG	γ Interval: 2.0DEG
Test Speed: MEDIUM	Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.485
Temperature:25.3℃	Humidity:65.0%
Operators:Li	Test Distance:8.458m [K=1.0000]
Test Date:2024-08-29	Remarks:

LED Avg.L Report

Test:U:230.15V I:0.157A P:33.61W PF:0.930 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:4694.6x1 lm		
NAME: T1242-900mA-36D-3090		
SPEC.: Xi 42W/a0.9-1.05A 40V		
MFR.: SOTEN		

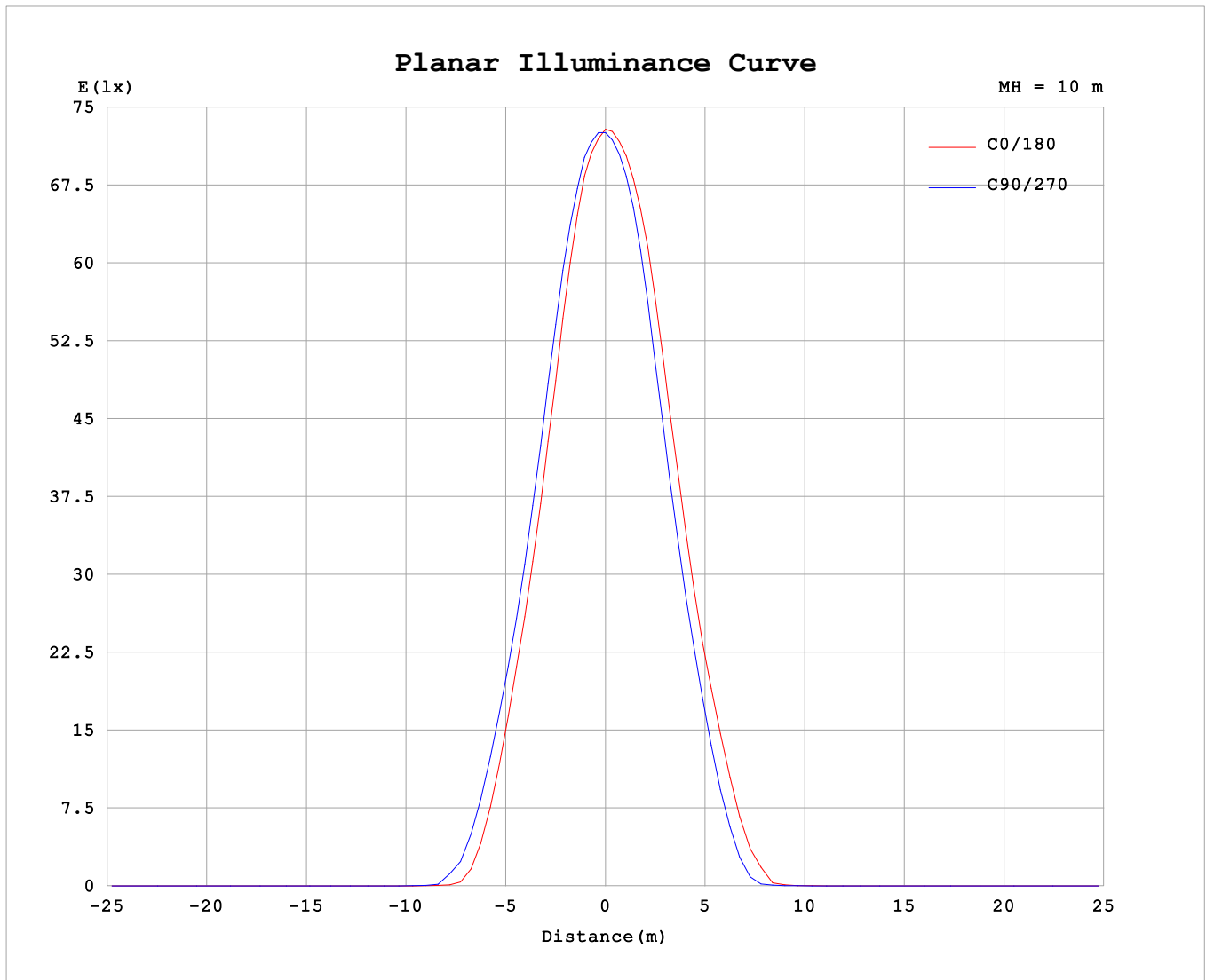
AvgL	cd/m2
L_0~180 (65) av	235
L_0~180 (75) av	234
L_0~180 (85) av	638
L_90~270 (65) av	219
L_90~270 (75) av	221
L_90~270 (85) av	628
L_45 (65) av	221
L_45 (75) av	220
L_45 (85) av	608

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: MEDIUM
 Temperature:25.3℃
 Operators:Li
 Test Date:2024-08-29

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.485
 Humidity:65.0%
 Test Distance:8.458m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature: 25.3°C
Operators: Li
Test Date: 2024-08-29

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.485
Humidity: 65.0%
Test Distance: 8.458m [K=1.0000]
Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.485
Humidity:65.0%
Test Distance:8.458m [K=1.0000]
Remarks:

```