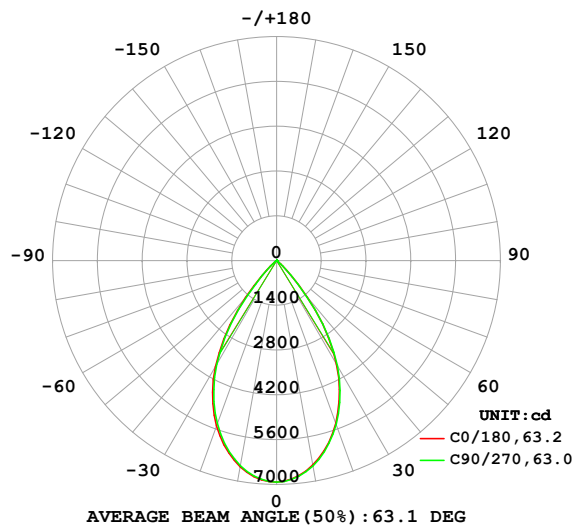


LUMINAIRE PHOTOMETRIC TEST REPORT

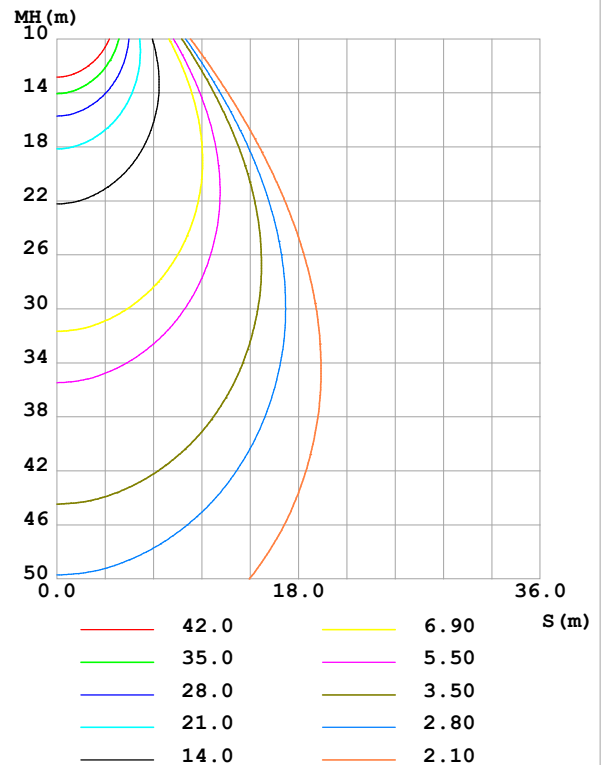
Test:U:230.11V I:0.234A P:52.45W PF:0.974 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:8495.6x1 lm		
NAME: T1270-60D-3090-silver		
SPEC.: KGP 56W/1400mA		
MFR.: SOTEN		

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 133.00 lm/W
MODEL	JF DC2835	I _{max} (cd)	6920	S/MH (C0/180)		0.95
NOMINAL POWER (W)	50	LOR (%)	82.1	S/MH (C90/270)		0.94
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	6976.2	η UP, DN (C0-180)		0.0, 41.4
NOMINAL FLUX (lm)	8495.6	CIE CLASS	DIRECT	η UP, DN (C180-360)		0.0, 40.8
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM		1.00
TEST VOLTAGE (V)	230	η down (%)	82.1	CIBSE SHR MAX		1.05

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 28 °C
Operators: Li
Test Date: 2025-04-25

γ Range: 0 - 90DEG
γ Interval: 2.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.485
Humidity: 75%
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	6490	6518	6521	6549	6552	6550	6514	6489	0- 10	641.3	641.3	9.19,7.55
20	5410	5483	5449	5529	5497	5526	5425	5434	10- 20	1697	2339	33.5,27.5
30	3756	3919	3801	3949	3831	3928	3751	3830	20- 30	2154	4493	64.4,52.9
40	1502	2040	1478	2029	1510	2000	1425	1940	30- 40	1739	6232	89.3,73.4
50	171.9	458.6	161.2	440.8	166.0	437.3	156.6	422.4	40- 50	654.9	6887	98.7,81.1
60	7.565	23.61	4.168	21.56	5.879	20.31	3.557	21.88	50- 60	84.85	6971	99.9,82.1
70	0.9725	1.018	1.023	0.8812	0.9260	0.6715	0.8438	0.8347	60- 70	3.069	6974	100,82.1
80	0.8143	0.7941	0.7376	0.6925	0.7890	0.6160	0.6356	0.7271	70- 80	0.8461	6975	100,82.1
90	1.588	1.176	0.6662	1.115	1.211	1.059	0.6662	0.9826	80- 90	0.9180	6976	100,82.1
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): 6743 lm

%lum = 96.7%

%lamp = 79.4%

Conical surface Flux(130deg): 6974.1 lm

%lum = 100.0%

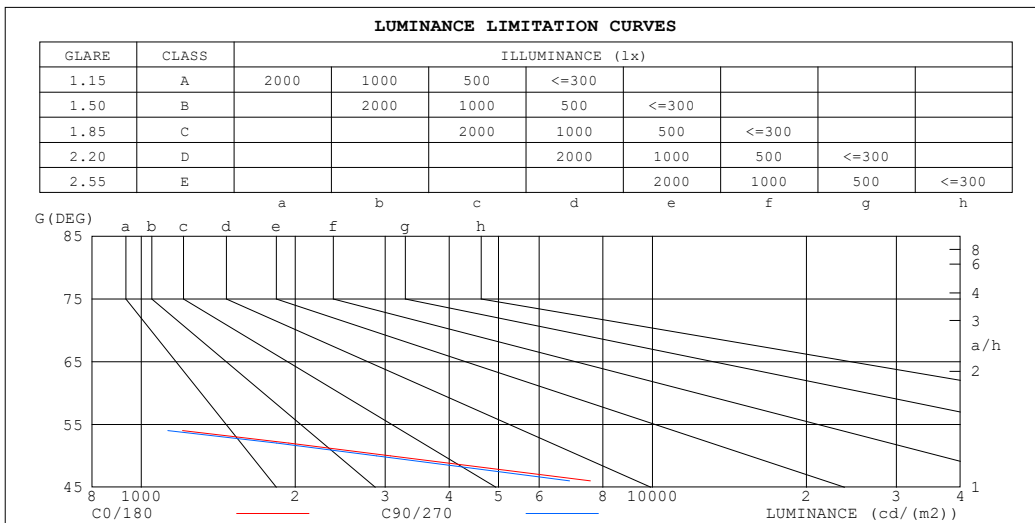
%lamp = 82.1%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:28℃
 Operators:Li
 Test Date:2025-04-25

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.485
 Humidity:75%
 Test Distance:8.458m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:230.11V I:0.234A P:52.45W PF:0.974 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:8495.6x1 lm		
NAME: T1270-60D-3090-silver		
SPEC.: KGP 56W/1400mA		
MFR.: SOTEN		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	128	90
80	54	49
75	38	39
70	33	34
65	35	37
60	174	96
55	1233	1155
50	3075	2886
45	11636	10599

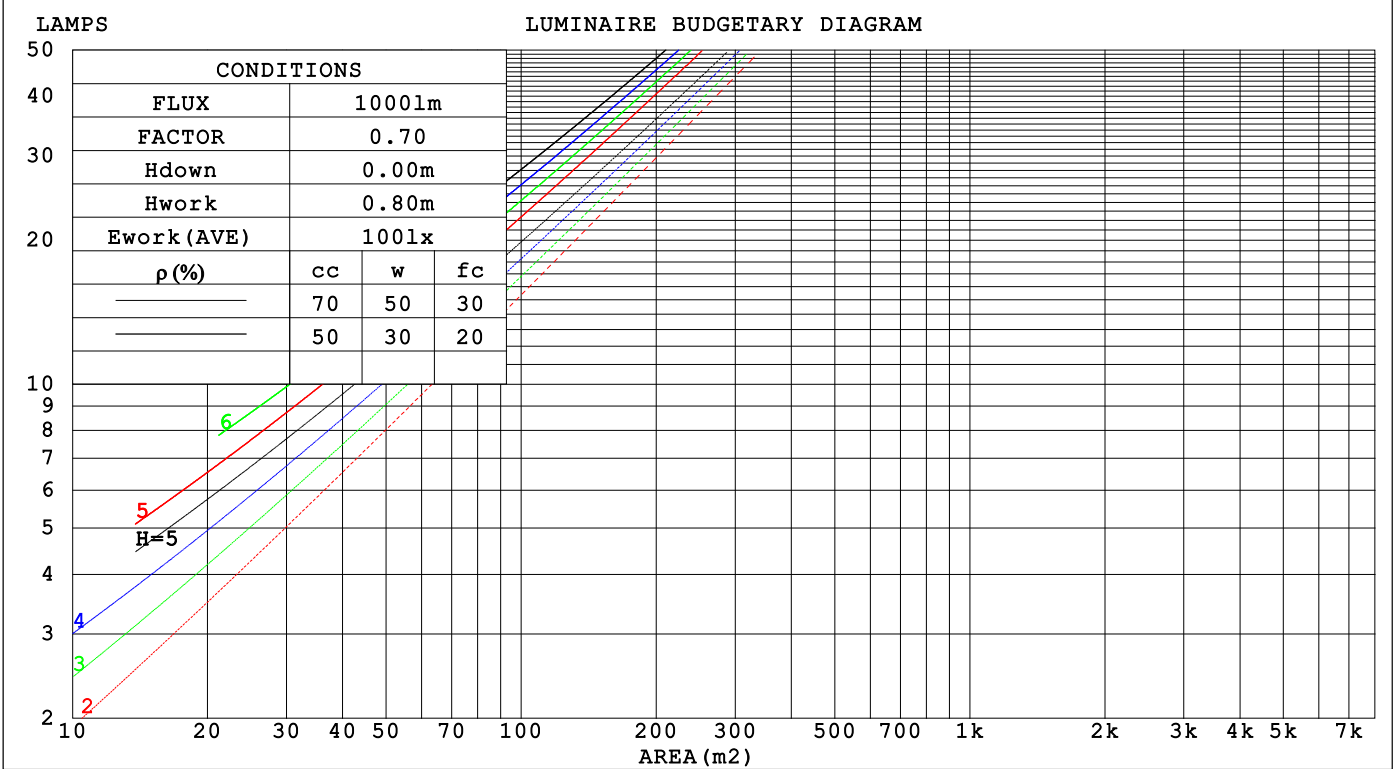
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:28℃
Operators:Li
Test Date:2025-04-25

γ Range: 0 - 90DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.485
Humidity:75%
Test Distance:8.458m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.11V I:0.234A P:52.45W PF:0.974 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0		
Lamp Flux:8495.6x1 lm		
NAME: T1270-60D-3090-silver		
SPEC.: KGP 56W/1400mA		
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	.98	.98	.98	.95	.95	.95	.91	.91	.91	.87	.87	.87	.84	.84	.84	.82
1.0	.91	.89	.87	.89	.87	.85	.86	.84	.83	.83	.81	.80	.80	.79	.78	.76
2.0	.84	.81	.78	.83	.80	.77	.80	.77	.75	.78	.75	.74	.75	.74	.72	.71
3.0	.78	.74	.70	.77	.73	.70	.75	.71	.69	.73	.70	.68	.71	.69	.67	.65
4.0	.73	.68	.64	.72	.67	.64	.70	.66	.63	.68	.65	.62	.67	.64	.62	.60
5.0	.68	.63	.59	.67	.62	.59	.65	.61	.58	.64	.60	.58	.63	.60	.57	.56
6.0	.63	.58	.54	.62	.58	.54	.61	.57	.54	.60	.56	.53	.59	.56	.53	.52
7.0	.59	.54	.50	.59	.54	.50	.57	.53	.50	.56	.53	.50	.55	.52	.49	.48
8.0	.55	.50	.47	.55	.50	.47	.54	.50	.46	.53	.49	.46	.52	.49	.46	.45
9.0	.52	.47	.44	.52	.47	.43	.51	.46	.43	.50	.46	.43	.49	.46	.43	.42
10.0	.49	.44	.41	.49	.44	.41	.48	.44	.41	.47	.43	.40	.47	.43	.40	.39



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:28℃
Operators:Li
Test Date:2025-04-25

γ Range: 0 - 90DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.485
Humidity:75%
Test Distance:8.458m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:230.11V I:0.234A P:52.45W PF:0.974 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:8495.6x1 lm		
NAME: T1270-60D-3090-silver		
SPEC.: KGP 56W/1400mA		
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	.150	.086	.027	.145	.083	.026	.134	.077	.025	.125	.072	.023	.116	.067	.022															
2.0	.145	.080	.024	.140	.077	.024	.132	.073	.023	.124	.069	.022	.116	.066	.021															
3.0	.139	.074	.022	.135	.072	.022	.127	.069	.021	.121	.066	.020	.114	.063	.020															
4.0	.133	.069	.020	.129	.068	.020	.123	.065	.019	.117	.063	.019	.111	.060	.018															
5.0	.127	.065	.019	.124	.064	.019	.118	.062	.018	.113	.060	.018	.108	.058	.017															
6.0	.121	.061	.017	.119	.060	.017	.114	.058	.017	.109	.057	.017	.105	.055	.016															
7.0	.116	.057	.016	.114	.057	.016	.109	.055	.016	.105	.054	.016	.101	.053	.015															
8.0	.111	.054	.015	.109	.054	.015	.105	.053	.015	.101	.051	.015	.098	.050	.015															
9.0	.107	.052	.014	.105	.051	.014	.101	.050	.014	.098	.049	.014	.095	.048	.014															
10.0	.102	.049	.014	.101	.049	.014	.097	.048	.013	.094	.047	.013	.091	.046	.013															

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	.156	.156	.156	.134	.134	.134	.091	.091	.091	.052	.052	.052	.017	.017	.017	
1.0	.141	.129	.119	.121	.111	.102	.082	.076	.071	.047	.044	.041	.015	.014	.013	
2.0	.129	.109	.092	.110	.094	.079	.076	.065	.055	.044	.038	.032	.014	.012	.011	
3.0	.119	.093	.073	.102	.080	.063	.070	.056	.044	.040	.033	.026	.013	.011	.009	
4.0	.111	.081	.059	.095	.070	.051	.066	.049	.036	.038	.029	.021	.012	.009	.007	
5.0	.104	.072	.048	.090	.062	.042	.062	.043	.029	.036	.026	.017	.012	.008	.006	
6.0	.099	.064	.040	.085	.056	.035	.058	.039	.025	.034	.023	.015	.011	.008	.005	
7.0	.093	.058	.034	.080	.051	.029	.056	.035	.021	.032	.021	.012	.010	.007	.004	
8.0	.089	.053	.029	.077	.046	.025	.053	.032	.018	.031	.019	.011	.010	.006	.004	
9.0	.085	.049	.025	.073	.043	.022	.051	.030	.015	.029	.018	.009	.010	.006	.003	
10.0	.081	.046	.022	.070	.040	.019	.048	.028	.014	.028	.016	.008	.009	.005	.003	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:28℃
 Operators:Li
 Test Date:2025-04-25

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.485
 Humidity:75%
 Test Distance:8.458m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:230.11V I:0.234A P:52.45W PF:0.974 Freq:49.99Hz										
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:8495.6x1 lm										
NAME: T1270-60D-3090-silver										
SPEC.: KGP 56W/1400mA										
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	17.6	18.6	17.9	18.8	19.0	17.6	18.6	17.8	18.7	18.9
3H	17.5	18.4	17.7	18.6	18.8	17.4	18.3	17.6	18.5	18.7
4H	17.4	18.2	17.6	18.5	18.7	17.3	18.2	17.6	18.4	18.6
6H	17.3	18.1	17.6	18.3	18.6	17.2	18.0	17.5	18.3	18.5
8H	17.2	18.0	17.5	18.3	18.5	17.2	17.9	17.5	18.2	18.4
12H	17.2	17.9	17.5	18.2	18.5	17.1	17.8	17.4	18.1	18.4
4H 2H	17.4	18.2	17.7	18.5	18.7	17.3	18.2	17.6	18.4	18.6
3H	17.2	17.9	17.5	18.2	18.5	17.1	17.9	17.4	18.1	18.4
4H	17.1	17.8	17.4	18.1	18.4	17.0	17.7	17.4	18.0	18.3
6H	17.0	17.6	17.4	17.9	18.3	16.9	17.5	17.3	17.8	18.2
8H	17.0	17.5	17.3	17.8	18.2	16.9	17.4	17.3	17.8	18.1
12H	16.9	17.4	17.3	17.8	18.2	16.8	17.3	17.2	17.7	18.1
8H 4H	17.0	17.5	17.3	17.8	18.2	16.9	17.4	17.3	17.8	18.1
6H	16.9	17.3	17.3	17.7	18.1	16.8	17.2	17.2	17.6	18.0
8H	16.8	17.2	17.2	17.6	18.1	16.7	17.1	17.2	17.5	18.0
12H	16.7	17.1	17.2	17.5	18.0	16.7	17.0	17.1	17.4	17.9
12H 4H	16.9	17.4	17.3	17.8	18.2	16.8	17.3	17.2	17.7	18.1
6H	16.8	17.2	17.2	17.6	18.1	16.7	17.1	17.2	17.5	18.0
8H	16.7	17.1	17.2	17.5	18.0	16.7	17.0	17.1	17.4	17.9
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 2.6 / -21.8					+ 2.7 / -22.6				
1.5H	+ 4.4 / -12.3					+ 4.6 / -12.6				
2.0H	+ 6.8 / -23.4					+ 6.7 / -23.7				

CIE Pub.117, 8496 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 7.4$)
 Area: 0.087 m²

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:28℃
 Operators:Li
 Test Date:2025-04-25

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.485
 Humidity:75%
 Test Distance:8.458m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test: U:230.11V I:0.234A P:52.45W PF:0.974 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:8495.6x1 lm		
NAME: T1270-60D-3090-silver		
SPEC.: KGP 56W/1400mA		
MFR.: SOTEN		

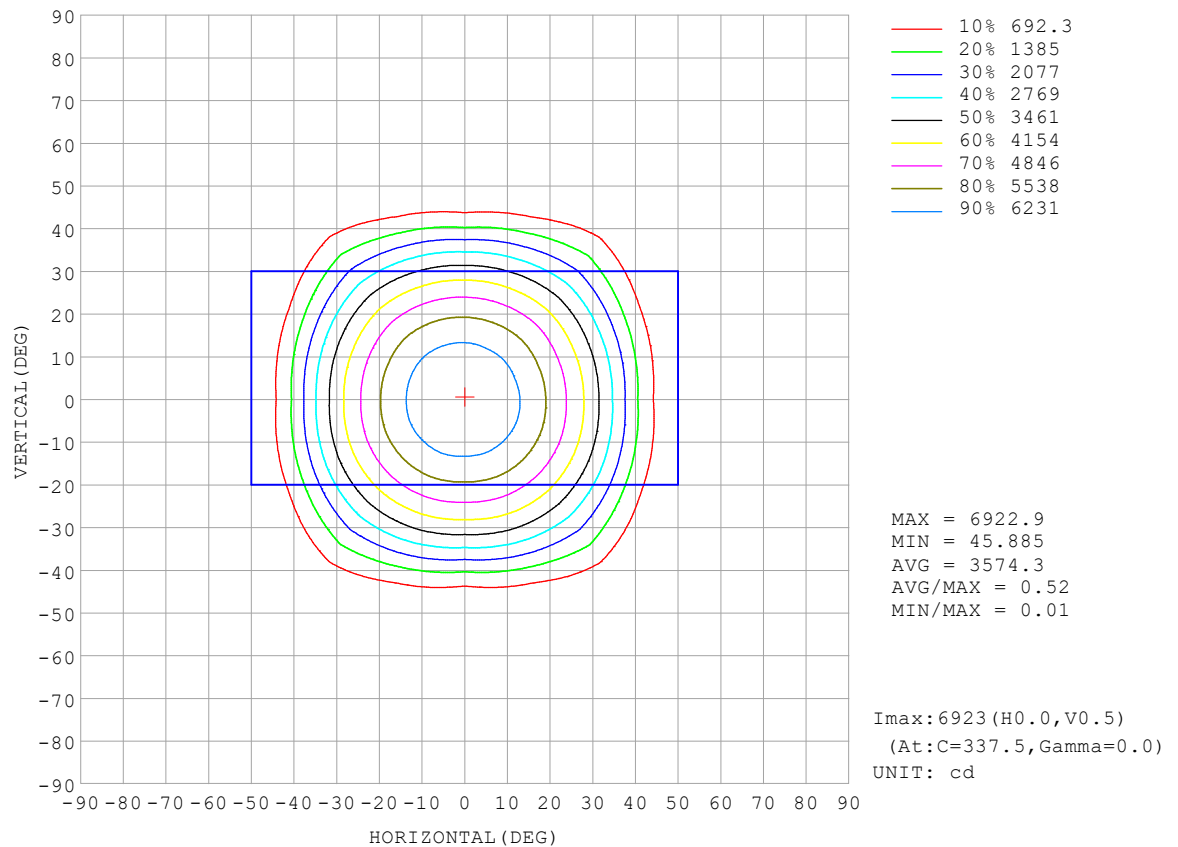
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	70	64	61	69	64	61	68	64	60	57
0.80	76	71	68	76	71	68	75	70	67	64
1.00	80	76	72	80	75	72	78	75	72	68
1.25	84	79	77	83	79	76	81	78	76	72
1.50	86	82	79	85	82	79	83	80	78	74
2.00	89	85	83	88	84	82	85	83	81	76
2.50	90	87	84	89	86	84	86	84	82	77
3.00	92	89	86	90	87	85	87	85	84	78
4.00	93	91	89	91	89	88	88	87	86	80
5.00	94	92	91	92	91	89	89	88	87	80
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: 28°C
 Operators: Li
 Test Date: 2025-04-25

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.485
 Humidity: 75%
 Test Distance: 8.458m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:230.11V I:0.234A P:52.45W PF:0.974 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:8495.6x1 lm		
NAME: T1270-60D-3090-silver		
SPEC.: KGP 56W/1400mA		
MFR.: SOTEN		

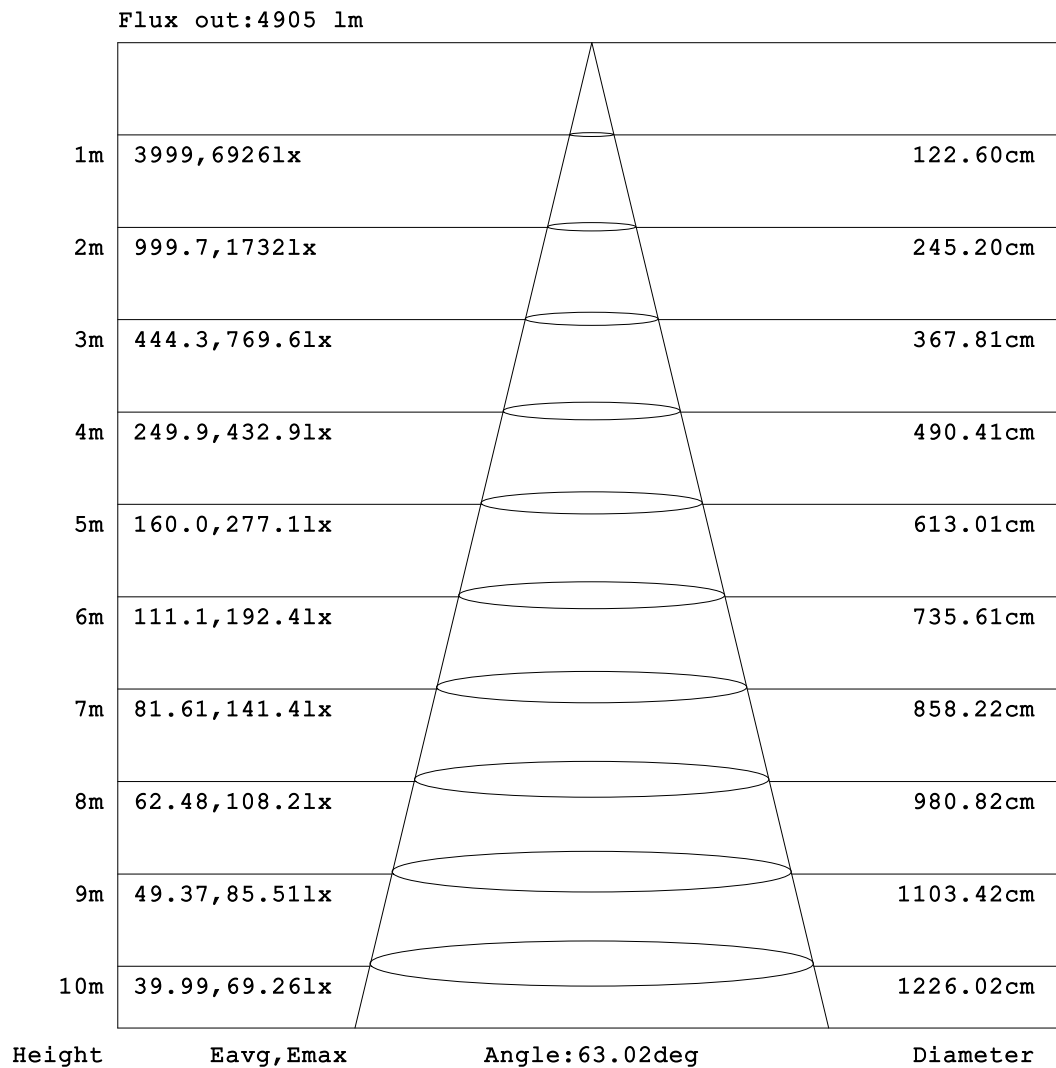


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 28°C
 Operators: Li
 Test Date: 2025-04-25

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.485
 Humidity: 75%
 Test Distance: 8.458m [K=1.0000]
 Remarks:

AAI Figure

Test:U:230.11V I:0.234A P:52.45W PF:0.974 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:8495.6x1 lm		
NAME: T1270-60D-3090-silver		
SPEC.: KGP 56W/1400mA		
MFR.: SOTEN		



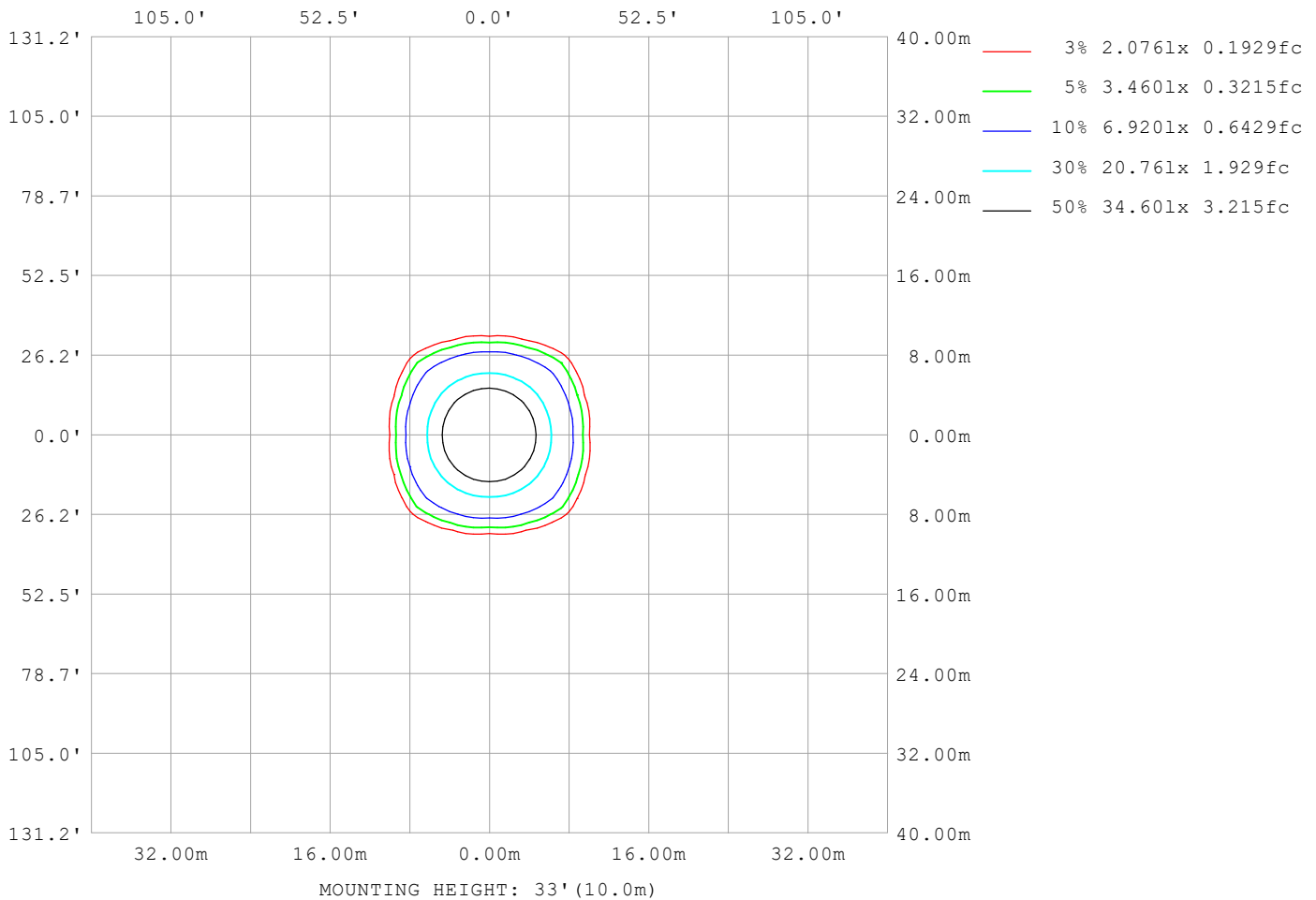
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 28°C
 Operators: Li
 Test Date: 2025-04-25

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.485
 Humidity: 75%
 Test Distance: 8.458m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:230.11V I:0.234A P:52.45W PF:0.974 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:8495.6x1 lm		
NAME: T1270-60D-3090-silver		
SPEC.: KGP 56W/1400mA		
MFR.: SOTEN		



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 28°C
 Operators: Li
 Test Date: 2025-04-25

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.485
 Humidity: 75%
 Test Distance: 8.458m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:230.11V I:0.234A P:52.45W PF:0.974 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:8495.6x1 lm		
NAME: T1270-60D-3090-silver		
SPEC.: KGP 56W/1400mA		
MFR.: SOTEN		

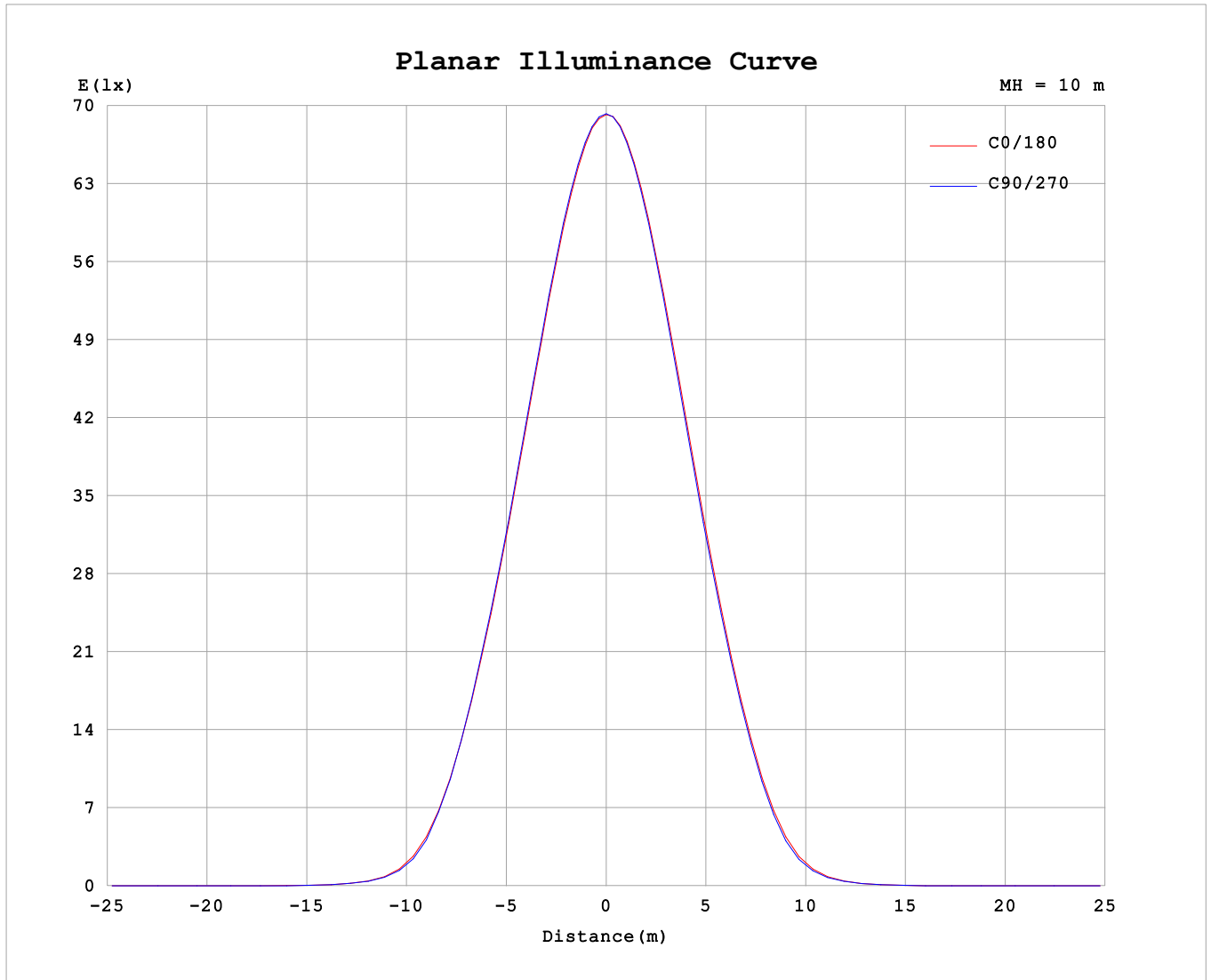
AvgL	cd/m2
L_0~180 (65) av	32
L_0~180 (75) av	36
L_0~180 (85) av	128
L_90~270 (65) av	32
L_90~270 (75) av	35
L_90~270 (85) av	86
L_45 (65) av	41
L_45 (75) av	33
L_45 (85) av	102

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 28℃
 Operators: Li
 Test Date: 2025-04-25

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.485
 Humidity: 75%
 Test Distance: 8.458m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 28°C
Operators: Li
Test Date: 2025-04-25

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.485
Humidity: 75%
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:75%
Test Distance:8.458m [K=1.0000]
Remarks:

```