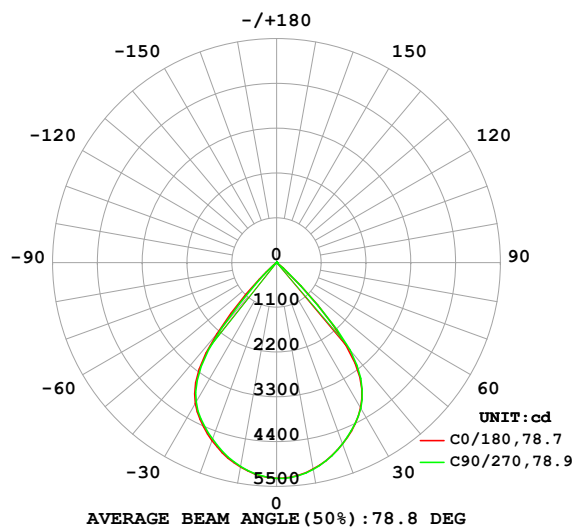


LUMINAIRE PHOTOMETRIC TEST REPORT

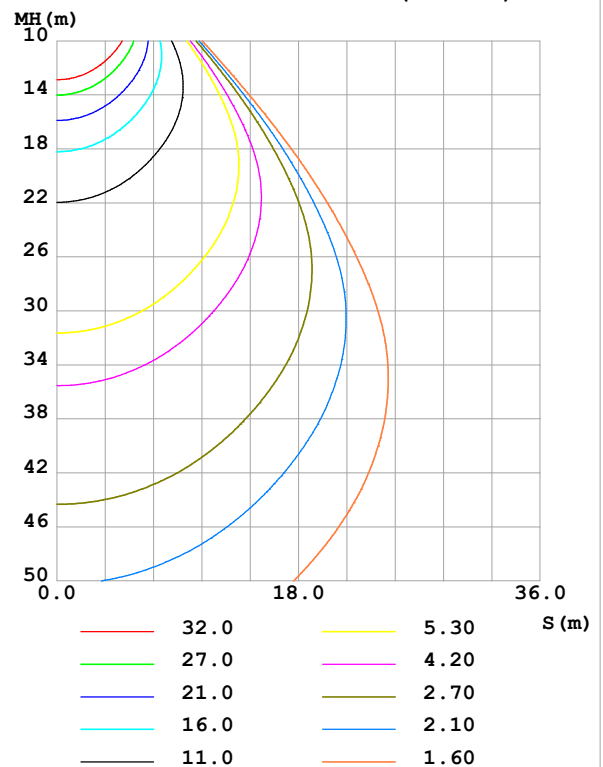
Test:U:230.09V I:0.234A P:52.50W PF:0.974 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:8495.6x1 lm		
NAME: T1270-80D-3090-silver		
SPEC.: KGP 56W/1400mA		
MFR.: SOTEN		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 143.89 lm/W			
MODEL	JF DC2835	I _{max} (cd)	5303	S/MH (C0/180)	1.12
NOMINAL POWER (W)	50	LOR (%)	88.9	S/MH (C90/270)	1.11
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	7554.3	η UP, DN (C0-180)	0.0, 46.1
NOMINAL FLUX (lm)	8495.6	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 42.8
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	230	η down (%)	88.9	CIBSE SHR MAX	1.30

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: 2025-05-26

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	5154	5166	5161	5132	5104	5083	5086	5106	0- 10	497.3	497.3	6.58,5.85
20	4739	4777	4733	4721	4649	4655	4614	4690	10- 20	1390	1887	25,22.2
30	4125	4277	4134	4203	3993	4126	3952	4181	20- 30	2039	3926	52,46.2
40	2659	3593	2800	3472	2280	3260	2110	3405	30- 40	2268	6193	82,72.9
50	216.9	1506	211.6	1279	95.48	893.8	38.86	956.3	40- 50	1249	7442	98.5,87.6
60	3.329	11.87	3.469	6.773	2.978	3.769	2.850	4.065	50- 60	107.1	7550	99.9,88.9
70	1.568	1.635	1.684	1.325	1.433	1.176	1.448	1.583	60- 70	2.172	7552	100,88.9
80	1.012	1.090	0.9820	0.9522	1.013	0.9627	0.8539	1.054	70- 80	1.263	7553	100,88.9
90	1.791	1.512	0.6865	1.808	1.989	1.930	0.7628	1.482	80- 90	1.258	7554	100,88.9
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): 7157.7 lm

%lum = 94.8%

%lamp = 84.3%

Conical surface Flux(130deg): 7551.1 lm

%lum = 100.0%

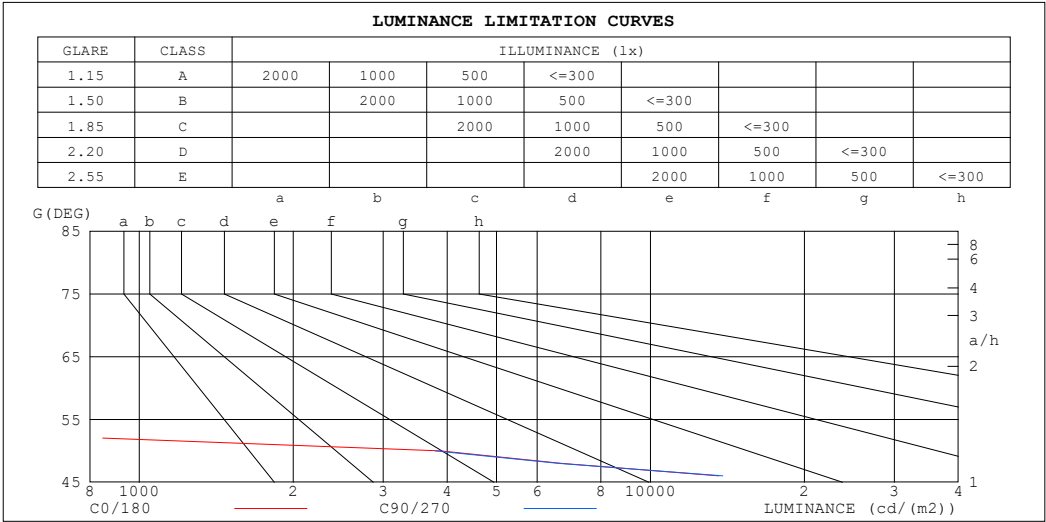
%lamp = 88.9%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:28℃
 Operators:Li
 Test Date:2025-05-26

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:230.09V I:0.234A P:52.50W PF:0.974 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:8495.6x1 lm		
NAME: T1270-80D-3090-silver		
SPEC.: KGP 56W/1400mA		
MFR.: SOTEN		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	148	107
80	67	65
75	54	59
70	53	57
65	65	68
60	77	80
55	331	349
50	3880	3788
45	23607	24062

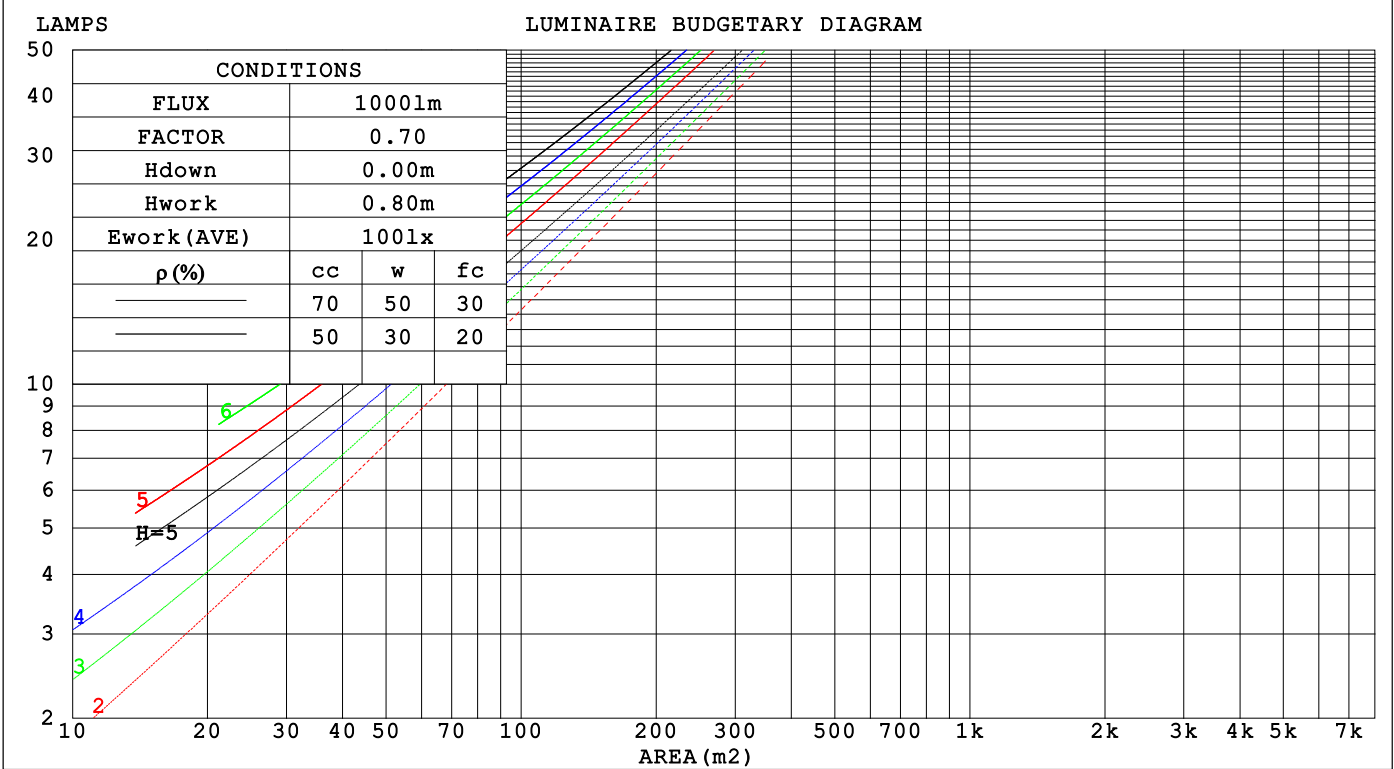
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:28℃
Operators:Li
Test Date:2025-05-26

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:230.09V I:0.234A P:52.50W PF:0.974 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0		
Lamp Flux:8495.6x1 lm		
NAME: T1270-80D-3090-silver		
SPEC.: KGP 56W/1400mA		
MFR.: SOTEN		

pcc	80%			70%			50%			30%			10%			0
p _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
p _{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:28℃
Operators:Li
Test Date:2025-05-26

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:230.09V I:0.234A P:52.50W PF:0.974 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:8495.6x1 lm		
NAME: T1270-80D-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	.174	.099	.031	.168	.096	.030	.156	.090	.029	.146	.084	.027	.137	.079	.026															
2.0	.169	.093	.028	.164	.090	.028	.154	.086	.027	.146	.082	.026	.137	.078	.025															
3.0	.163	.087	.026	.158	.085	.026	.150	.081	.025	.142	.078	.024	.135	.075	.023															
4.0	.156	.081	.024	.152	.080	.024	.145	.077	.023	.138	.074	.022	.132	.072	.022															
5.0	.149	.076	.022	.146	.075	.022	.140	.073	.021	.134	.070	.021	.128	.068	.021															
6.0	.143	.072	.020	.140	.071	.020	.134	.069	.020	.129	.067	.020	.124	.065	.019															
7.0	.136	.067	.019	.134	.067	.019	.129	.065	.019	.124	.064	.019	.120	.062	.018															
8.0	.130	.064	.018	.128	.063	.018	.124	.062	.018	.119	.060	.017	.115	.059	.017															
9.0	.125	.060	.017	.123	.060	.017	.119	.059	.017	.115	.058	.016	.111	.056	.016															
10.0	.120	.057	.016	.118	.057	.016	.114	.056	.016	.110	.055	.016	.107	.054	.015															

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	.169	.169	.169	.145	.145	.145	.099	.099	.099	.057	.057	.057	.018	.018	.018	
1.0	.153	.140	.128	.131	.120	.110	.090	.083	.076	.052	.048	.044	.017	.015	.014	
2.0	.141	.118	.098	.121	.101	.085	.083	.070	.059	.048	.041	.035	.015	.013	.011	
3.0	.131	.101	.077	.113	.087	.067	.077	.061	.047	.045	.035	.028	.014	.011	.009	
4.0	.123	.088	.062	.106	.076	.054	.073	.053	.038	.042	.031	.022	.014	.010	.007	
5.0	.116	.078	.050	.100	.068	.044	.069	.047	.031	.040	.028	.018	.013	.009	.006	
6.0	.110	.070	.042	.095	.061	.036	.066	.043	.026	.038	.025	.015	.012	.008	.005	
7.0	.105	.064	.035	.090	.055	.031	.063	.039	.022	.036	.023	.013	.012	.007	.004	
8.0	.100	.059	.030	.086	.051	.026	.060	.036	.019	.035	.021	.011	.011	.007	.004	
9.0	.096	.054	.026	.083	.047	.023	.057	.033	.016	.033	.020	.010	.011	.006	.003	
10.0	.092	.050	.023	.079	.044	.020	.055	.031	.014	.032	.018	.008	.010	.006	.003	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:28℃
 Operators:Li
 Test Date:2025-05-26

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:230.09V I:0.234A P:52.50W PF:0.974 Freq:49.99Hz										
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:8495.6x1 lm										
NAME: T1270-80D-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	21.0	22.1	21.2	22.2	22.4	21.1	22.2	21.3	22.3	22.5
3H	20.8	21.8	21.1	22.0	22.2	20.9	21.9	21.1	22.1	22.3
4H	20.7	21.6	21.0	21.9	22.1	20.8	21.7	21.1	22.0	22.2
6H	20.6	21.5	20.9	21.7	22.0	20.7	21.6	21.0	21.8	22.1
8H	20.6	21.4	20.9	21.7	21.9	20.6	21.5	21.0	21.7	22.0
12H	20.5	21.3	20.8	21.6	21.9	20.6	21.4	20.9	21.7	22.0
4H 2H	20.7	21.6	21.0	21.9	22.1	20.8	21.7	21.1	22.0	22.2
3H	20.5	21.3	20.8	21.6	21.9	20.6	21.4	20.9	21.7	22.0
4H	20.4	21.1	20.8	21.4	21.8	20.5	21.2	20.9	21.5	21.9
6H	20.3	21.0	20.7	21.3	21.6	20.4	21.1	20.8	21.4	21.7
8H	20.3	20.9	20.7	21.2	21.6	20.4	21.0	20.8	21.3	21.7
12H	20.2	20.8	20.6	21.1	21.5	20.3	20.9	20.7	21.2	21.6
8H 4H	20.3	20.9	20.7	21.2	21.6	20.4	21.0	20.8	21.3	21.7
6H	20.2	20.7	20.6	21.1	21.5	20.3	20.7	20.7	21.1	21.6
8H	20.1	20.6	20.6	21.0	21.4	20.2	20.6	20.7	21.1	21.5
12H	20.1	20.4	20.6	20.9	21.4	20.2	20.5	20.6	21.0	21.4
12H 4H	20.2	20.8	20.6	21.1	21.5	20.3	20.9	20.7	21.2	21.6
6H	20.1	20.6	20.6	21.0	21.4	20.2	20.6	20.7	21.1	21.5
8H	20.1	20.4	20.6	20.9	21.4	20.2	20.5	20.6	21.0	21.4
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 2.9 / -32.3					+ 3.0 / -32.0				
1.5H	+ 3.5 / -21.2					+ 3.5 / -22.2				
2.0H	+ 6.9 / -27.7					+ 6.7 / -27.1				

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:2025-05-26

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:230.09V I:0.234A P:52.50W PF:0.974 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:8495.6x1 lm		
NAME: T1270-80D-3090-silver		
SPEC.: KGP 56W/1400mA		
MFR.: SOTEN		

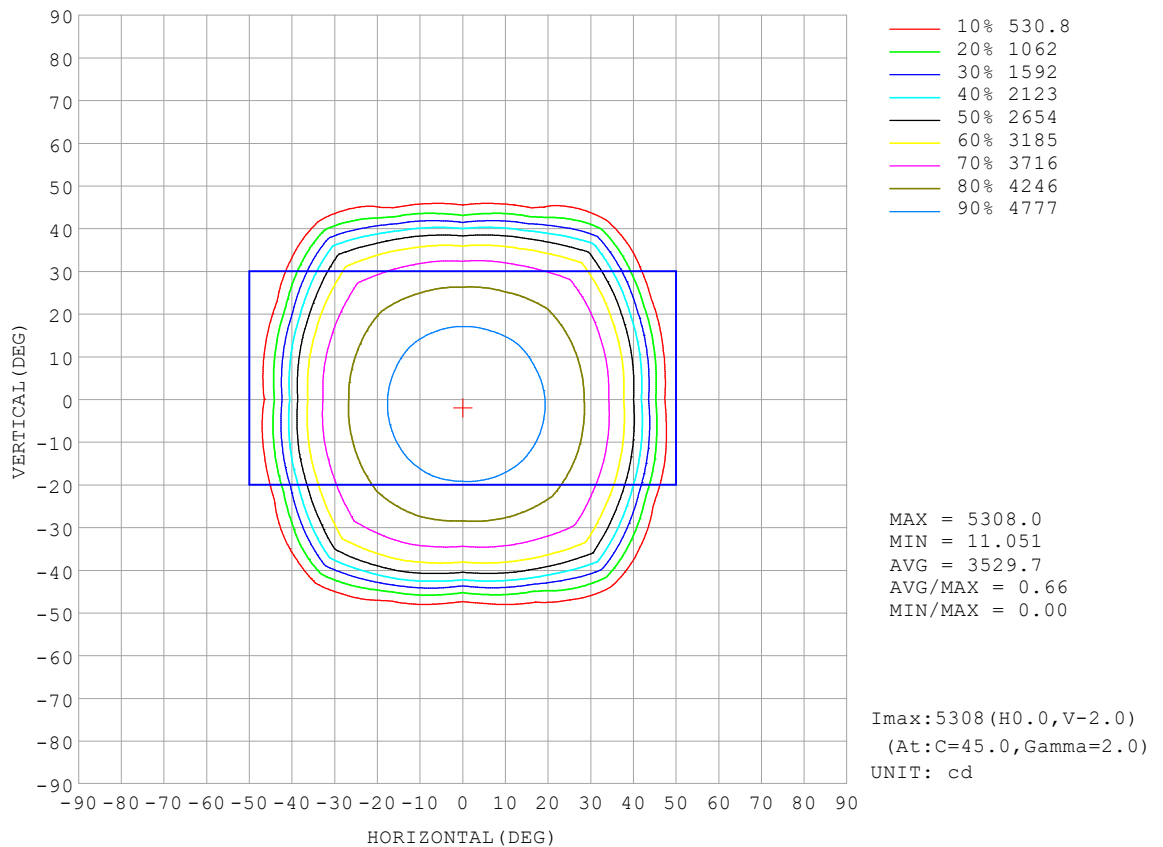
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	71	64	60	71	64	60	70	64	60	56
0.80	79	73	69	78	72	69	77	72	68	64
1.00	84	79	75	84	78	75	82	78	74	70
1.25	89	84	80	88	83	80	86	82	79	75
1.50	92	87	83	91	86	83	89	85	82	78
2.00	95	91	88	94	90	87	91	88	86	81
2.50	97	93	90	95	92	89	92	90	87	82
3.00	98	95	92	97	94	91	94	91	89	83
4.00	100	97	95	98	96	94	95	93	91	85
5.00	101	99	97	99	97	96	96	94	93	86
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: 2025-05-26

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:230.09V I:0.234A P:52.50W PF:0.974 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:8495.6x1 lm		
NAME: T1270-80D-3090-silver		
SPEC.: KGP 56W/1400mA		
MFR.: SOTEN		

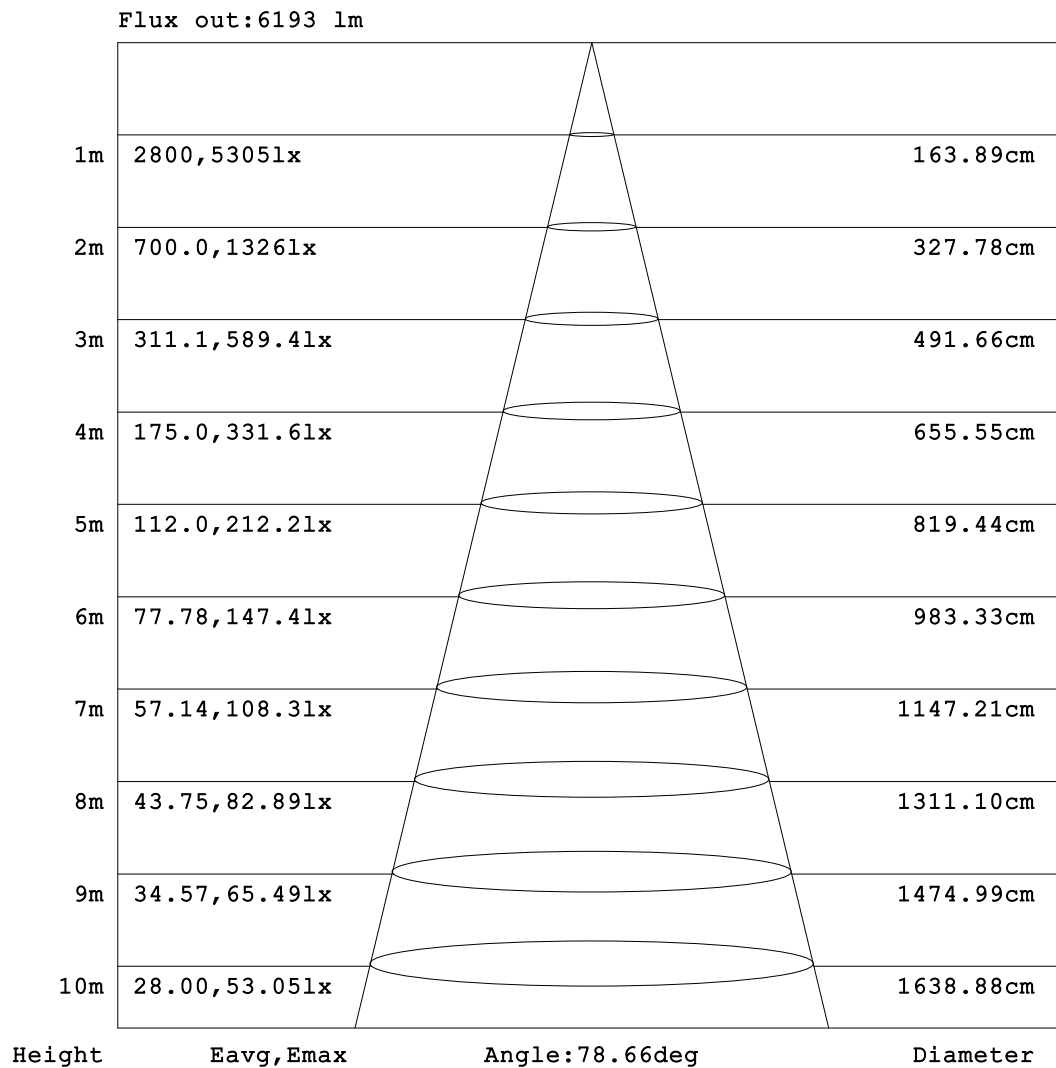


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:28℃
 Operators:Li
 Test Date:2025-05-26

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:230.09V I:0.234A P:52.50W PF:0.974 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:8495.6x1 lm		
NAME: T1270-80D-3090-silver		
SPEC.: KGP 56W/1400mA		
MFR.: SOTEN		



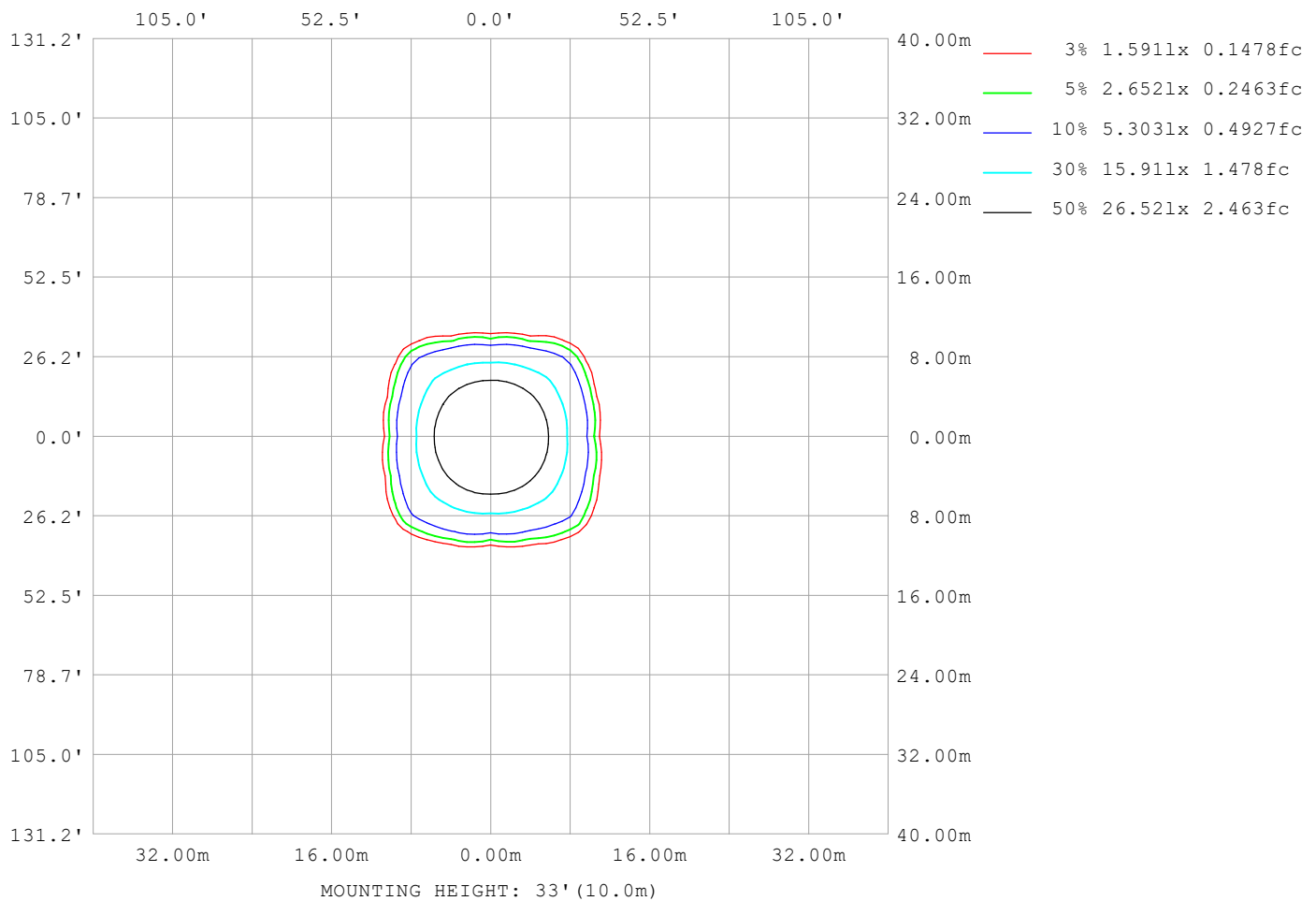
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 28°C
 Operators: Li
 Test Date: 2025-05-26

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:230.09V I:0.234A P:52.50W PF:0.974 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:8495.6x1 lm		
NAME: T1270-80D-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: 2025-05-26

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:230.09V I:0.234A P:52.50W PF:0.974 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:8495.6x1 lm		
NAME: T1270-80D-3090-silver		
SPEC.: KGP 56W/1400mA		
MFR.: SOTEN		

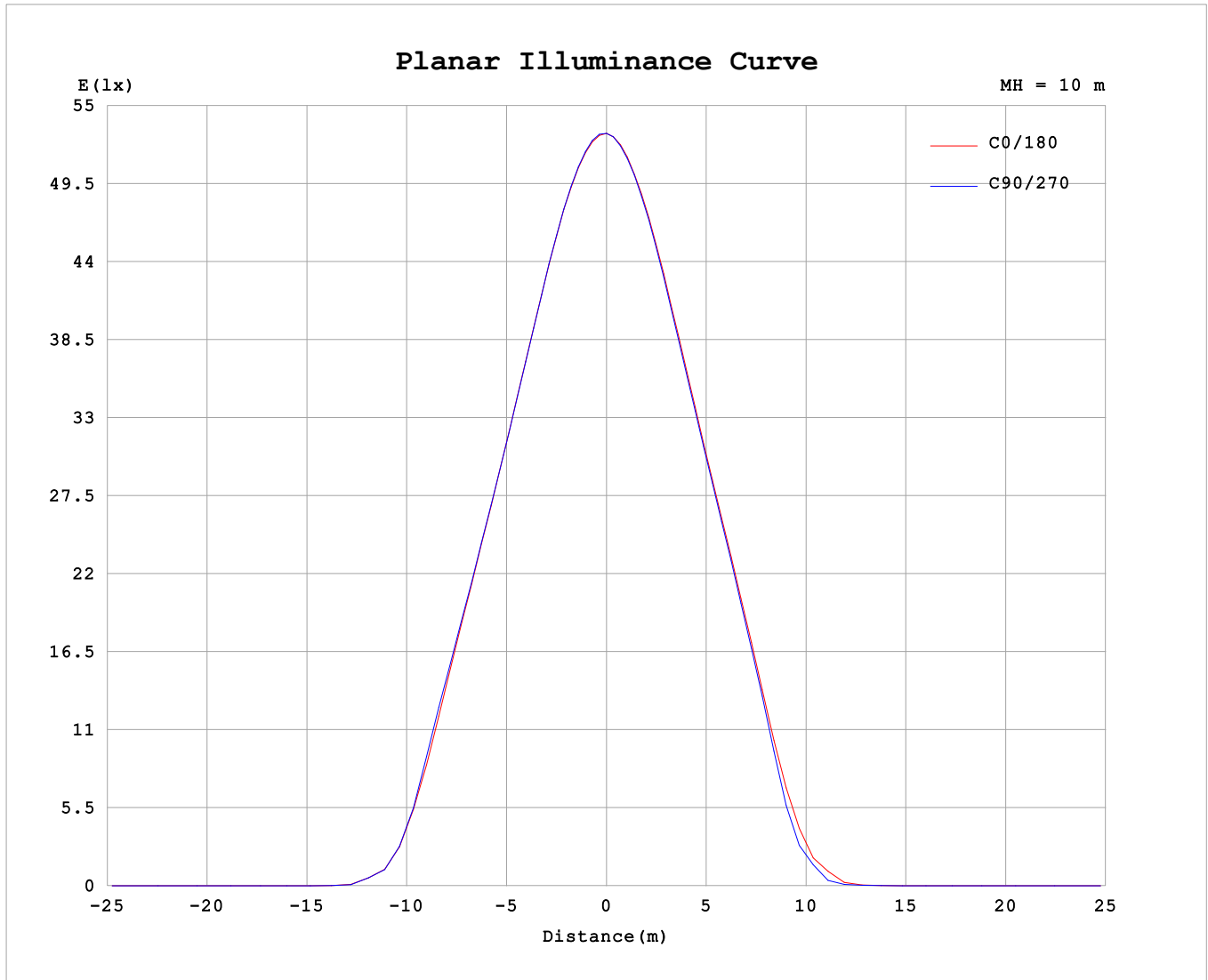
AvgL	cd/m2
L_0~180 (65) av	58
L_0~180 (75) av	49
L_0~180 (85) av	164
L_90~270 (65) av	59
L_90~270 (75) av	53
L_90~270 (85) av	96
L_45 (65) av	52
L_45 (75) av	51
L_45 (85) av	151

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 28℃
 Operators: Li
 Test Date: 2025-05-26

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: 2025-05-26

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:

```