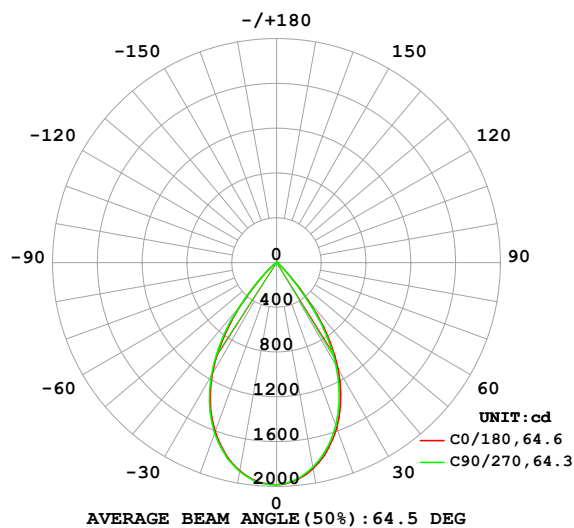


LUMINAIRE PHOTOMETRIC TEST REPORT

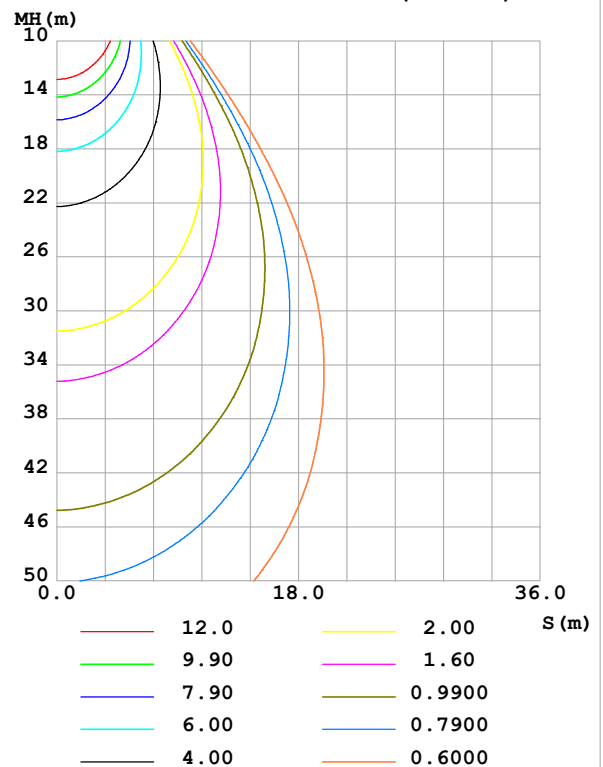
Test:U:229.57V I:0.065A P:14.49W PF:0.975 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2454.1x1 lm		
NAME: T1271-60D-3090-silver		
SPEC.: KGP 16W/400mA		
MFR.: SOTEN		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 143.84 lm/W			
MODEL	JF 2835	I _{max} (cd)	1984	S/MH (C0/180)	0.97
NOMINAL POWER (W)	15	LOR (%)	84.9	S/MH (C90/270)	0.98
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	2084.2	η UP, DN (C0-180)	0.0, 40.8
NOMINAL FLUX (lm)	2454.1	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 44.1
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.00
TEST VOLTAGE (V)	230	η down (%)	84.9	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: 25°C
Operators: LI
Test Date: 2025-06-17

γ Range: 0 - 90DEG
γ Interval: 2.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.485
Humidity: 65.0%
Test Distance: 8.300m [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	1871	1865	1857	1866	1889	1899	1896	1890	0- 10	184.4	184.4	8.85,7.51
20	1572	1570	1546	1579	1605	1635	1621	1618	10- 20	491.7	676.0	32.4,27.5
30	1098	1120	1061	1132	1150	1209	1168	1191	20- 30	632.5	1309	62.8,53.3
40	444.2	585.2	395.3	597.9	502.7	677.7	537.6	661.9	30- 40	528.4	1837	88.1,74.9
50	51.41	126.7	44.09	144.3	63.90	194.4	70.03	184.4	40- 50	216.1	2053	98.5,83.7
60	0.5695	4.875	0.3350	5.393	1.640	10.70	2.658	9.775	50- 60	30.23	2083	100,84.9
70	0.0989	0.0936	0.0989	0.0885	0.0780	0.0779	0.0728	0.0676	60- 70	0.7822	2084	100,84.9
80	0.0780	0.0676	0.0780	0.0676	0.0832	0.0780	0.0780	0.0729	70- 80	0.0793	2084	100,84.9
90	0.0780	0.0987	0.0780	0.0988	0.0832	0.1039	0.0884	0.0988	80- 90	0.0873	2084	100,84.9
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): 2003.2 lm

%lum = 96.1%

%lamp = 81.6%

Conical surface Flux(130deg): 2084 lm

%lum = 100.0%

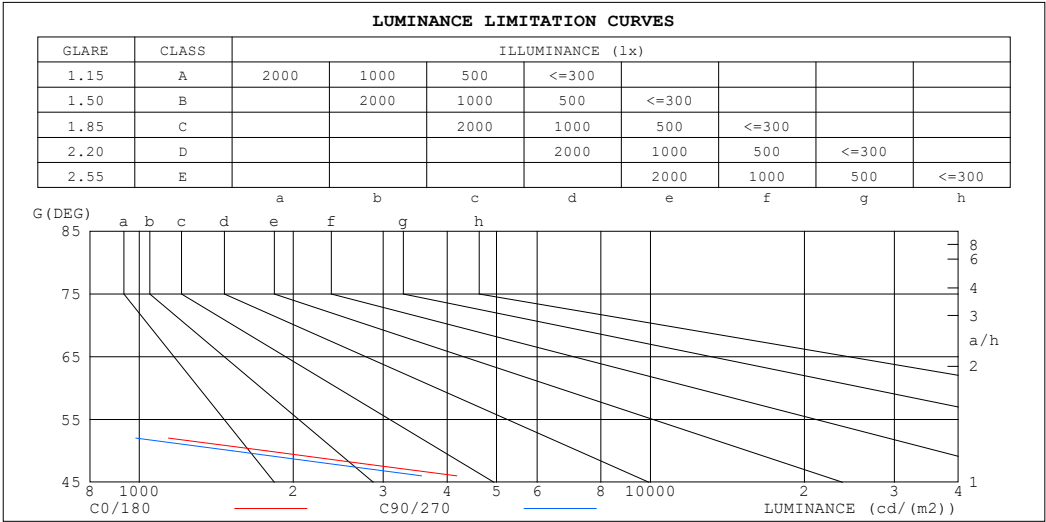
%lamp = 84.9%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25℃
 Operators:LI
 Test Date:2025-06-17

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.485
 Humidity:65.0%
 Test Distance:8.300m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:229.57V I:0.065A P:14.49W PF:0.975 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2454.1x1 lm		
NAME: T1271-60D-3090-silver		
SPEC.: KGP 16W/400mA		
MFR.: SOTEN		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	20	20
80	10	10
75	7	7
70	6	6
65	7	7
60	25	15
55	709	600
50	1777	1524
45	6405	5472

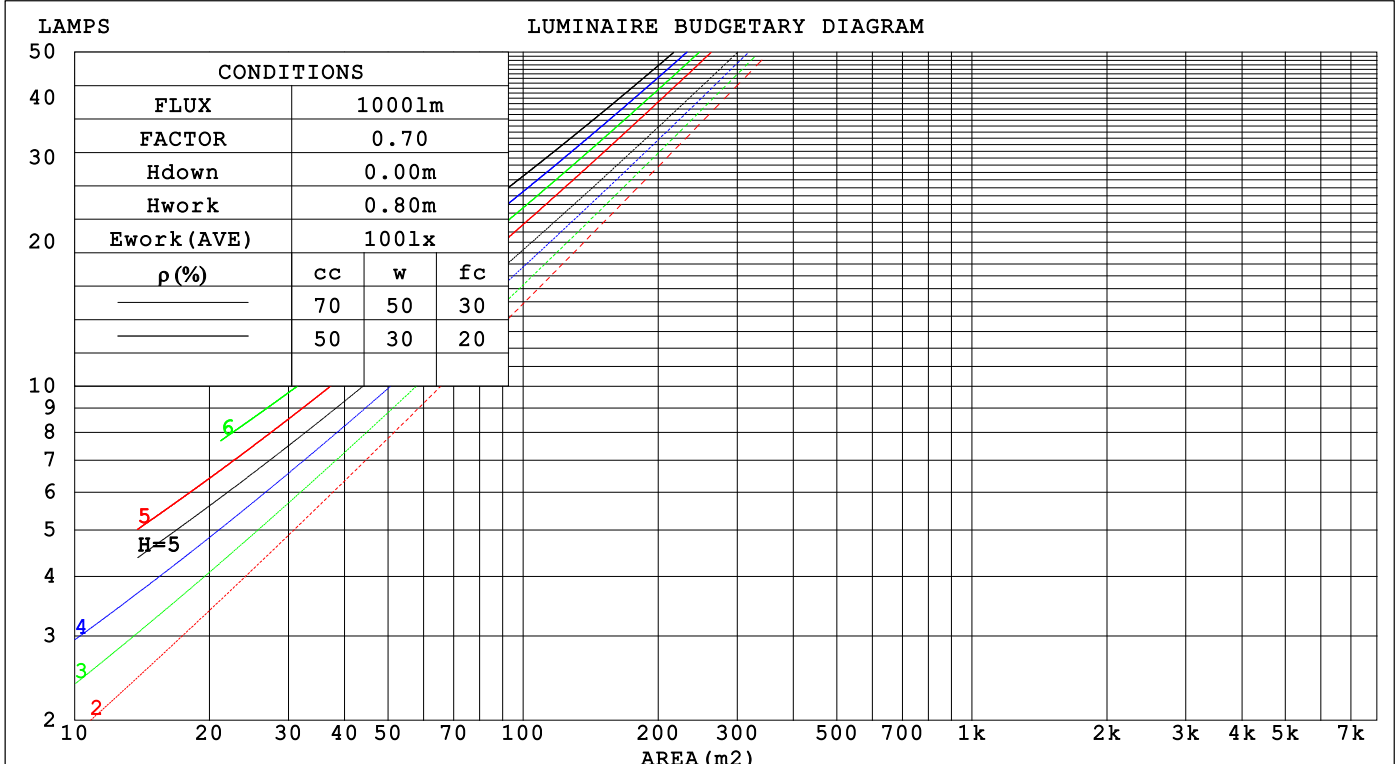
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25℃
Operators:LI
Test Date:2025-06-17

γ Range: 0 - 90DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.485
Humidity:65.0%
Test Distance:8.300m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:229.57V I:0.065A P:14.49W PF:0.975 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2454.1lx1 lm		
NAME: T1271-60D-3090-silver		
SPEC.: KGP 16W/400mA		
MFR.: SOTEN		

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Coefficients of Utilization(CU)												
0.0	1.01	1.01	1.01	.99	.99	.99	.94	.94	.94	.90	.90	.90	.87	.87	.87	.85
1.0	.94	.92	.90	.92	.90	.88	.88	.87	.85	.85	.84	.83	.82	.81	.81	.79
2.0	.87	.83	.80	.85	.82	.79	.83	.80	.78	.80	.78	.76	.78	.76	.74	.73
3.0	.80	.76	.73	.79	.75	.72	.77	.74	.71	.75	.72	.70	.73	.71	.69	.67
4.0	.75	.70	.66	.74	.69	.66	.72	.68	.65	.70	.67	.64	.69	.66	.63	.62
5.0	.70	.64	.60	.69	.64	.60	.67	.63	.60	.66	.62	.59	.64	.61	.59	.57
6.0	.65	.59	.56	.64	.59	.55	.63	.58	.55	.62	.58	.55	.60	.57	.54	.53
7.0	.61	.55	.51	.60	.55	.51	.59	.54	.51	.58	.54	.51	.57	.53	.50	.49
8.0	.57	.51	.48	.56	.51	.48	.55	.51	.47	.54	.50	.47	.54	.50	.47	.46
9.0	.53	.48	.44	.53	.48	.44	.52	.47	.44	.51	.47	.44	.50	.47	.44	.43
10.0	.50	.45	.41	.50	.45	.41	.49	.44	.41	.48	.44	.41	.48	.44	.41	.40



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25℃
Operators:LI
Test Date:2025-06-17

γ Range: 0 - 90DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.485
Humidity:65.0%
Test Distance:8.300m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:229.57V I:0.065A P:14.49W PF:0.975 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2454.1x1 lm		
NAME: T1271-60D-3090-silver		
SPEC.: KGP 16W/400mA		
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	.157	.089	.028	.151	.086	.027	.140	.081	.026	.131	.075	.024	.122	.070	.023	
2.0	.152	.083	.026	.147	.081	.025	.138	.077	.024	.129	.073	.023	.122	.069	.022	
3.0	.145	.077	.023	.141	.076	.023	.133	.072	.022	.126	.069	.021	.120	.066	.020	
4.0	.139	.072	.021	.135	.071	.021	.129	.068	.020	.122	.066	.020	.117	.063	.019	
5.0	.133	.068	.020	.130	.067	.019	.124	.064	.019	.118	.062	.019	.113	.061	.018	
6.0	.127	.064	.018	.124	.063	.018	.119	.061	.018	.114	.059	.017	.110	.058	.017	
7.0	.122	.060	.017	.119	.059	.017	.114	.058	.017	.110	.056	.016	.106	.055	.016	
8.0	.116	.057	.016	.114	.056	.016	.110	.055	.016	.106	.054	.016	.102	.053	.015	
9.0	.111	.054	.015	.110	.053	.015	.106	.052	.015	.102	.051	.015	.099	.050	.015	
10.0	.107	.051	.014	.105	.051	.014	.102	.050	.014	.099	.049	.014	.096	.048	.014	

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	.162	.162	.162	.138	.138	.138	.094	.094	.094	.054	.054	.054	.017	.017	.017	
1.0	.146	.134	.123	.125	.115	.105	.085	.079	.073	.049	.046	.042	.016	.015	.014	
2.0	.133	.112	.095	.114	.097	.082	.078	.067	.057	.045	.039	.034	.014	.013	.011	
3.0	.124	.097	.075	.106	.083	.065	.073	.058	.046	.042	.034	.027	.013	.011	.009	
4.0	.115	.084	.060	.099	.073	.052	.068	.051	.037	.039	.030	.022	.013	.010	.007	
5.0	.108	.074	.049	.093	.064	.043	.064	.045	.030	.037	.026	.018	.012	.009	.006	
6.0	.102	.067	.041	.088	.058	.036	.061	.040	.025	.035	.024	.015	.011	.008	.005	
7.0	.097	.060	.035	.084	.052	.030	.058	.037	.021	.034	.022	.013	.011	.007	.004	
8.0	.092	.055	.030	.080	.048	.026	.055	.034	.018	.032	.020	.011	.010	.007	.004	
9.0	.088	.051	.026	.076	.044	.022	.053	.031	.016	.031	.018	.009	.010	.006	.003	
10.0	.084	.047	.023	.073	.041	.020	.050	.029	.014	.029	.017	.008	.010	.006	.003	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25℃
 Operators:LI
 Test Date:2025-06-17

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.485
 Humidity:65.0%
 Test Distance:8.300m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:229.57V I:0.065A P:14.49W PF:0.975 Freq:49.99Hz										
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2454.1x1 lm										
NAME: T1271-60D-3090-silver										
SPEC.: KGP 16W/400mA										
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	15.5	16.5	15.7	16.7	16.8	15.1	16.1	15.4	16.3	16.5
3H	15.3	16.2	15.5	16.4	16.6	14.9	15.9	15.2	16.1	16.3
4H	15.2	16.1	15.5	16.3	16.5	14.9	15.7	15.1	16.0	16.2
6H	15.1	15.9	15.4	16.2	16.4	14.8	15.6	15.1	15.8	16.1
8H	15.1	15.8	15.4	16.1	16.4	14.7	15.5	15.0	15.8	16.0
12H	15.0	15.8	15.3	16.0	16.3	14.7	15.4	15.0	15.7	16.0
4H 2H	15.2	16.1	15.5	16.3	16.5	14.9	15.7	15.1	16.0	16.2
3H	15.0	15.8	15.3	16.0	16.3	14.7	15.4	15.0	15.7	16.0
4H	14.9	15.6	15.3	15.9	16.2	14.6	15.3	14.9	15.6	15.9
6H	14.8	15.4	15.2	15.8	16.1	14.5	15.1	14.9	15.4	15.8
8H	14.8	15.3	15.2	15.7	16.1	14.4	15.0	14.8	15.3	15.7
12H	14.7	15.2	15.1	15.6	16.0	14.4	14.9	14.8	15.3	15.7
8H 4H	14.8	15.3	15.2	15.7	16.1	14.4	15.0	14.8	15.3	15.7
6H	14.7	15.1	15.1	15.5	15.9	14.3	14.8	14.8	15.2	15.6
8H	14.6	15.0	15.1	15.4	15.9	14.3	14.7	14.7	15.1	15.5
12H	14.6	14.9	15.0	15.4	15.8	14.2	14.6	14.7	15.0	15.5
12H 4H	14.7	15.2	15.1	15.6	16.0	14.4	14.9	14.8	15.3	15.7
6H	14.6	15.0	15.1	15.4	15.9	14.3	14.7	14.7	15.1	15.5
8H	14.6	14.9	15.0	15.4	15.8	14.2	14.6	14.7	15.0	15.5
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 2.6 / -23.2					+ 2.7 / -25.2				
1.5H	+ 4.6 / -12.8					+ 4.6 / -13.0				
2.0H	+ 6.8 / -32.4					+ 6.7 / -31.5				

CIE Pub.117, 2454 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 3.1$)
 Area: 0.045 m²

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25℃
 Operators:LI
 Test Date:2025-06-17

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.485
 Humidity:65.0%
 Test Distance:8.300m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:229.57V I:0.065A P:14.49W PF:0.975 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2454.1x1 lm		
NAME: T1271-60D-3090-silver		
SPEC.: KGP 16W/400mA		
MFR.: SOTEN		

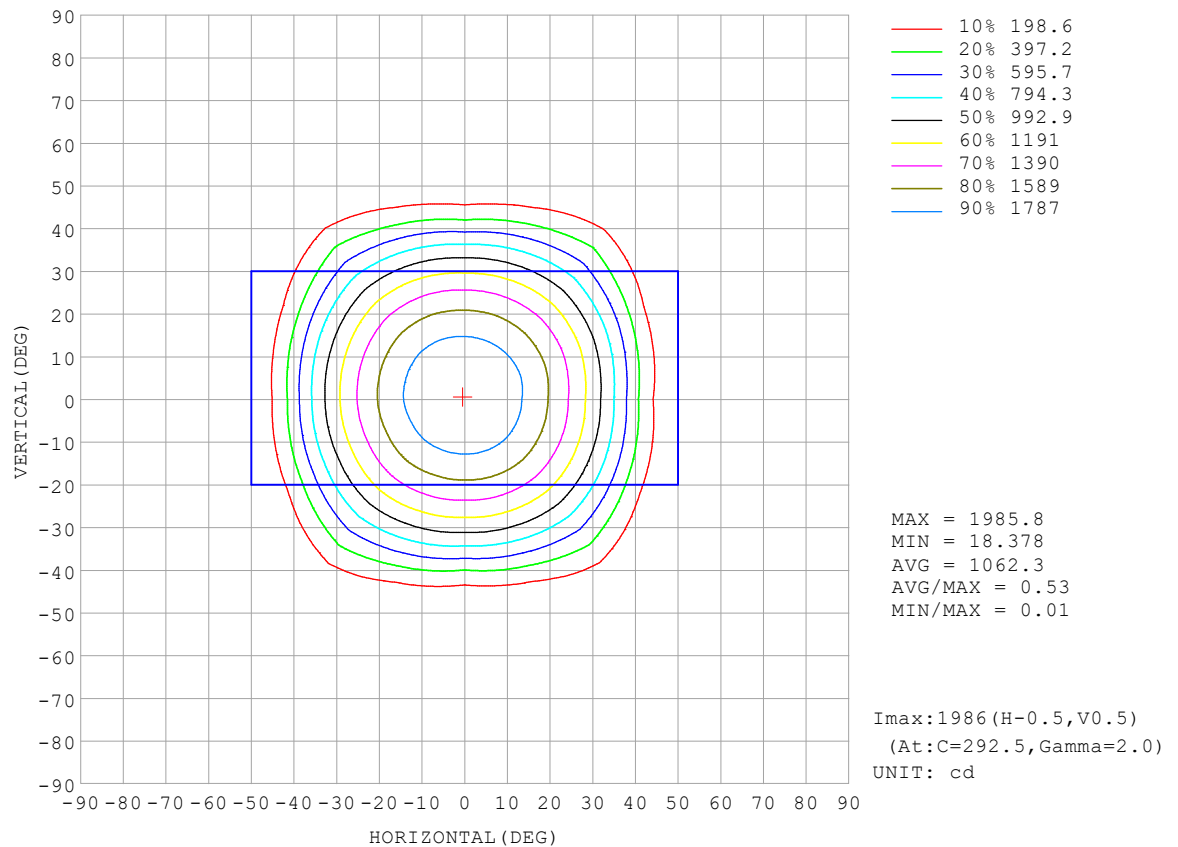
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	71	65	62	71	65	62	70	65	62	58
0.80	78	73	69	78	72	69	77	72	69	65
1.00	83	78	74	82	77	74	81	77	74	70
1.25	87	82	79	86	81	78	84	80	78	74
1.50	89	85	82	88	84	81	86	83	80	76
2.00	92	88	85	90	87	84	88	85	83	79
2.50	93	90	87	92	89	86	89	87	85	80
3.00	95	91	89	93	90	88	90	88	86	81
4.00	96	94	92	95	92	91	91	90	88	82
5.00	97	95	94	95	94	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: HIGH
 Temperature: 25°C
 Operators: LI
 Test Date: 2025-06-17

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.485
 Humidity: 65.0%
 Test Distance: 8.300m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:229.57V I:0.065A P:14.49W PF:0.975 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2454.1x1 lm		
NAME: T1271-60D-3090-silver		
SPEC.: KGP 16W/400mA		
MFR.: SOTEN		

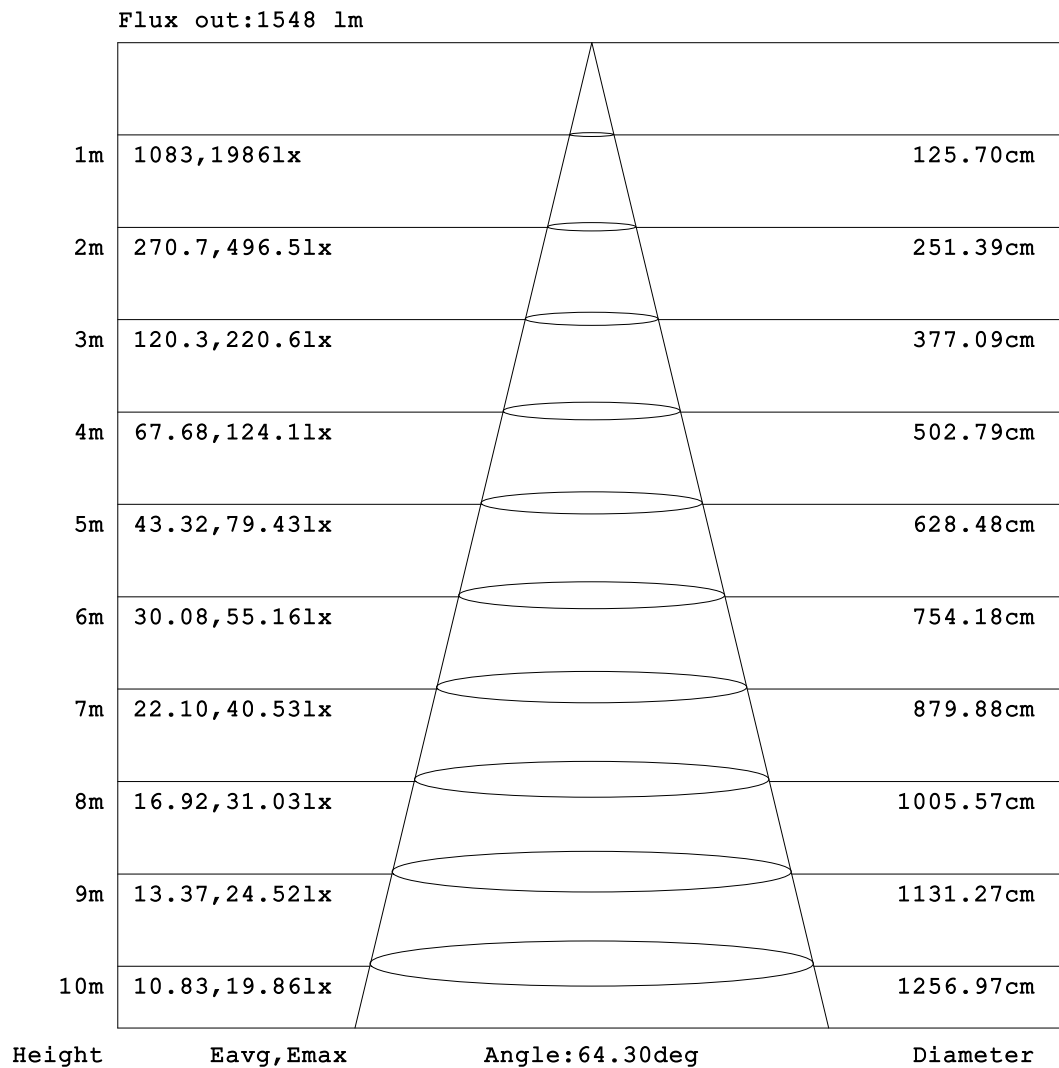


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25℃
Operators:LI
Test Date:2025-06-17

γ Range: 0 - 90DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.485
Humidity:65.0%
Test Distance:8.300m [K=1.0000]
Remarks:

AAI Figure

Test:U:229.57V I:0.065A P:14.49W PF:0.975 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2454.1x1 lm		
NAME: T1271-60D-3090-silver		
SPEC.: KGP 16W/400mA		
MFR.: SOTEN		



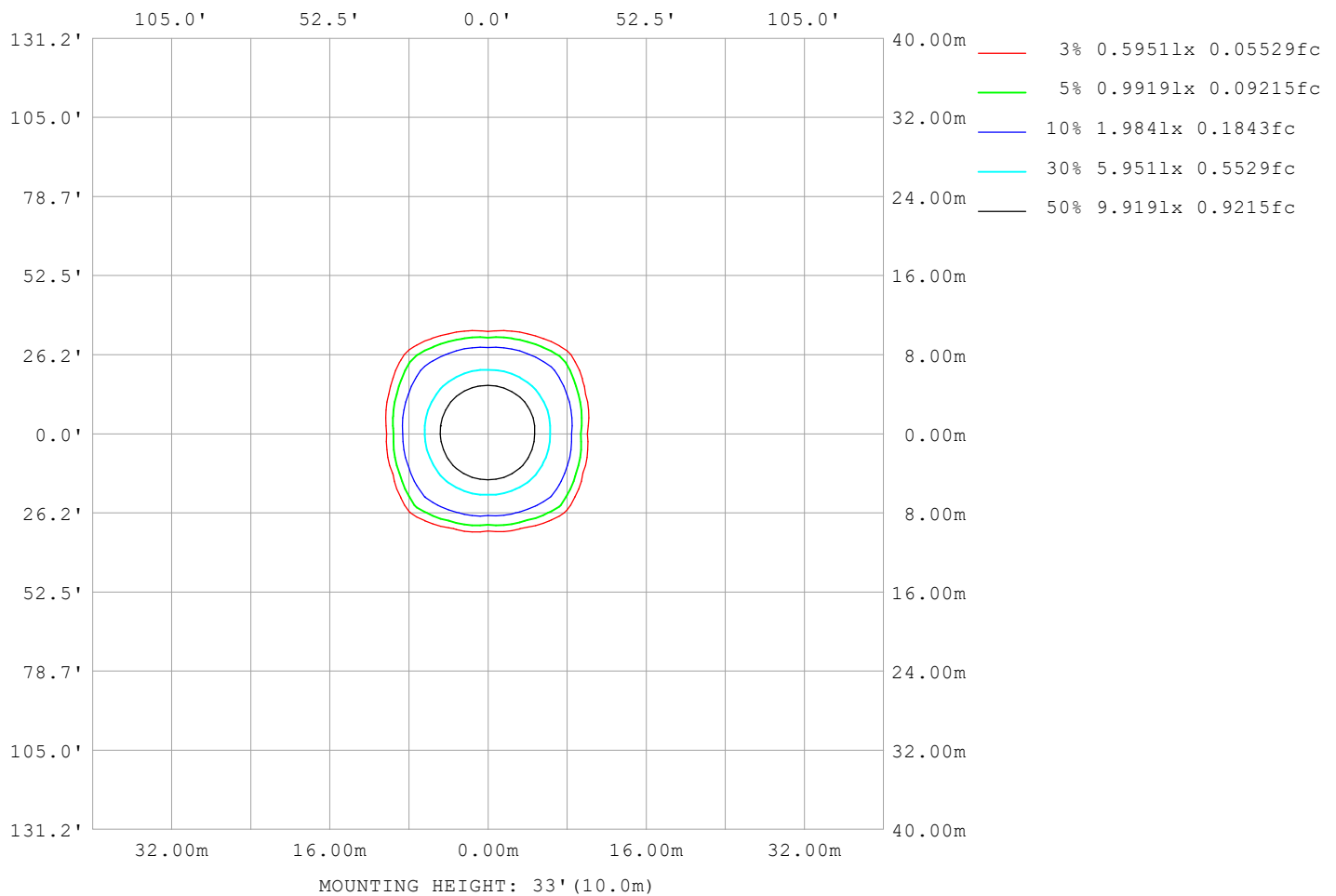
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25°C
 Operators: LI
 Test Date: 2025-06-17

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.485
 Humidity: 65.0%
 Test Distance: 8.300m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:229.57V I:0.065A P:14.49W PF:0.975 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2454.1x1 lm		
NAME: T1271-60D-3090-silver		
SPEC.: KGP 16W/400mA		
MFR.: SOTEN		



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25°C
 Operators: LI
 Test Date: 2025-06-17

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.485
 Humidity: 65.0%
 Test Distance: 8.300m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:229.57V I:0.065A P:14.49W PF:0.975 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2454.1x1 lm		
NAME: T1271-60D-3090-silver		
SPEC.: KGP 16W/400mA		
MFR.: SOTEN		

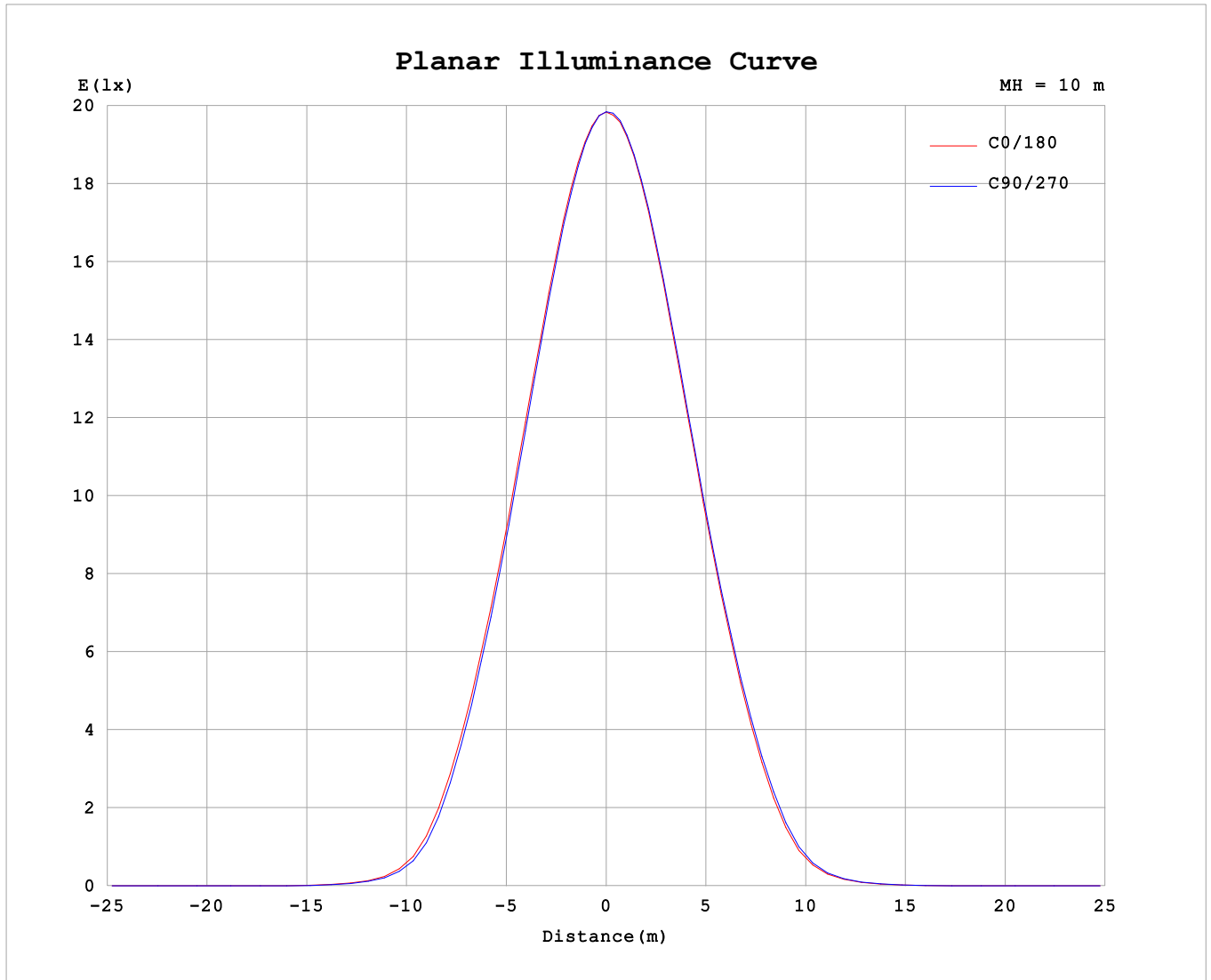
AvgL	cd/m2
L_0~180 (65) av	5
L_0~180 (75) av	7
L_0~180 (85) av	21
L_90~270 (65) av	5
L_90~270 (75) av	7
L_90~270 (85) av	21
L_45 (65) av	15
L_45 (75) av	6
L_45 (85) av	21

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25℃
 Operators: LI
 Test Date: 2025-06-17

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.485
 Humidity: 65.0%
 Test Distance: 8.300m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25°C
Operators: LI
Test Date: 2025-06-17

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.485
Humidity: 65.0%
Test Distance: 8.300m [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:8.300m [K=1.0000]
Remarks:

```