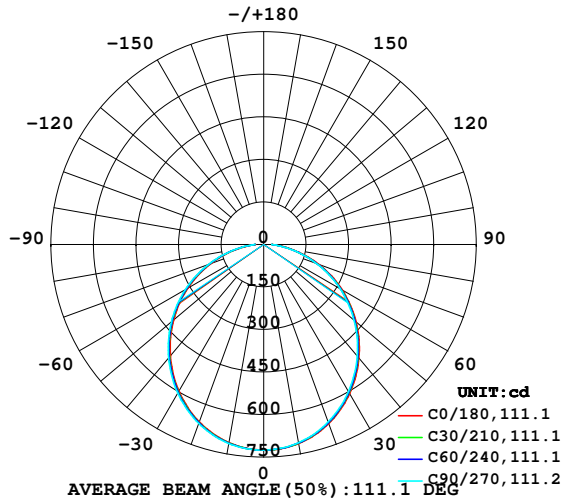


LUMINAIRE PHOTOMETRIC TEST REPORT

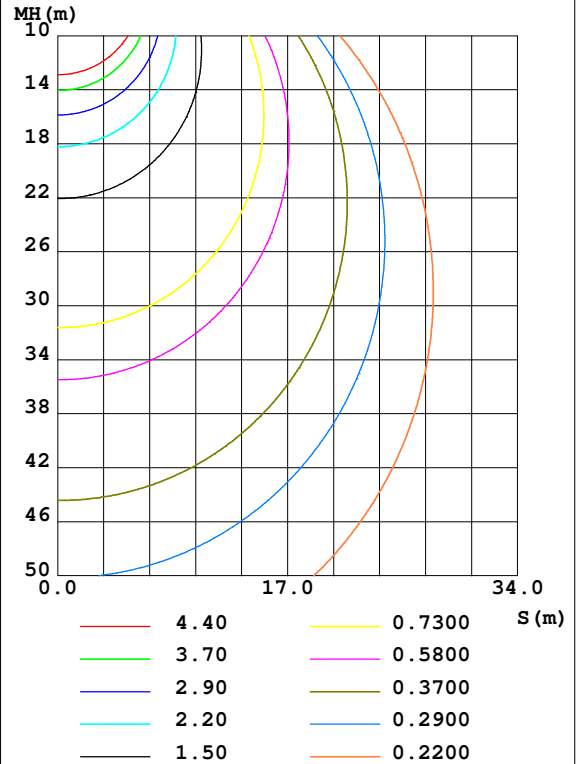
Test:U:220.50V I:0.1192A P:24.232W PF:0.9223 Freq:50.01Hz Lamp Flux:2078.02x1 lm		
NAME: SCP	TYPE: INDOOR	WEIGHT: 2kg
SPEC.: 24W	DIM.: Ø330-H70mm	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 85.75 lm/W			
MODEL	SCP	I _{max} (cd)	725.2	S/MH (C0/180)	1.23
NOMINAL POWER (W)	24	LOR (%)	100.0	S/MH (C90/270)	1.24
RATED VOLTAGE (V)	230.0	TOTAL FLUX (lm)	2078.0	η UP, DN (C0-180)	0.0, 49.7
NOMINAL FLUX (lm)	2078.02	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 50.3
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	230	η down (%)	100.0	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT: lx)



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: LITPA
 Test Date: 21 January 2019

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.400
 Humidity: 65.0%
 Test Distance: 5.680m [K=1.0000]
 Remarks: SCP-24W

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	712.7	711.7	709.6	709.3	709.4	710.5	712.5	712.9	0- 10	68.55	68.55	3.3,3.3
20	672.1	670.0	666.1	665.3	665.5	667.6	671.5	672.4	10- 20	195.6	264.1	12.7,12.7
30	606.8	603.9	598.6	597.7	597.6	600.9	605.9	607.3	20- 30	294.0	558.1	26.9,26.9
40	522.8	519.5	513.6	512.6	512.3	516.2	522.1	523.5	30- 40	351.5	909.7	43.8,43.8
50	425.9	422.3	416.4	415.6	415.1	419.3	425.4	426.6	40- 50	363.0	1273	61.2,61.2
60	319.4	315.5	310.2	309.9	309.4	313.4	319.4	320.0	50- 60	329.5	1602	77.1,77.1
70	207.3	203.8	199.2	199.7	198.9	202.9	207.9	208.0	60- 70	256.7	1859	89.5,89.5
80	99.41	96.47	93.51	94.43	93.50	96.56	100.3	99.68	70- 80	157.2	2016	97,97
90	29.70	28.97	28.97	29.06	29.14	29.71	30.73	30.85	80- 90	61.96	2078	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		

Conical surface Flux(90deg): 1092.7 lm

%lum = 52.6%

%lamp = 52.6%

Conical surface Flux(120deg): 1602.2 lm

%lum = 77.1%

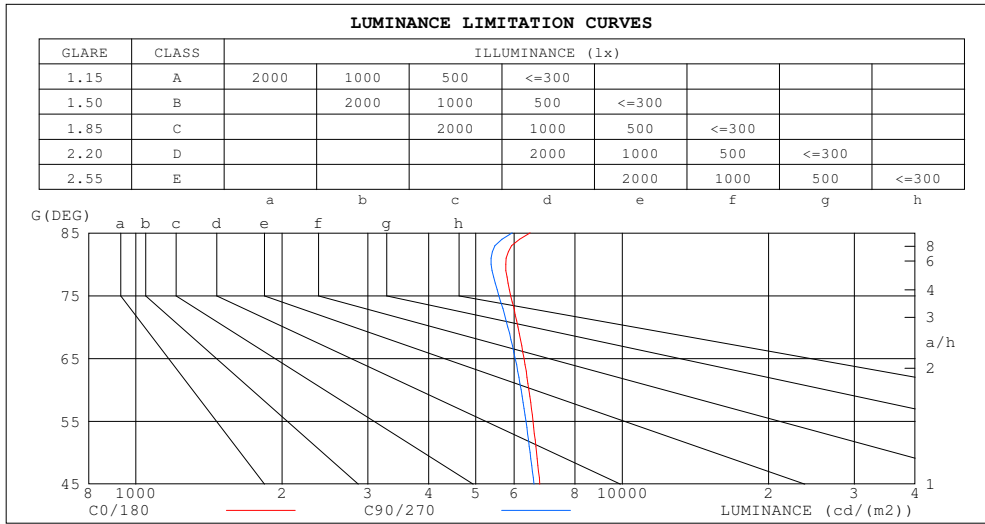
%lamp = 77.1%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:LITPA
 Test Date:21 January 2019

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
 Humidity:65.0%
 Test Distance:5.680m [K=1.0000]
 Remarks: SCP-24W

LUMINANCE LIMITATION CURVES

Test:U:220.50V I:0.1192A P:24.232W PF:0.9223 Freq:50.01Hz Lamp Flux:2078.02x1 lm		
NAME: SCP	TYPE: INDOOR	WEIGHT: 2kg
SPEC.: 24W	DIM.: Ø330-H70mm	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	6469	5945
80	5764	5379
75	5901	5576
70	6103	5818
65	6287	6028
60	6432	6198
55	6558	6344
50	6671	6471
45	6774	6587

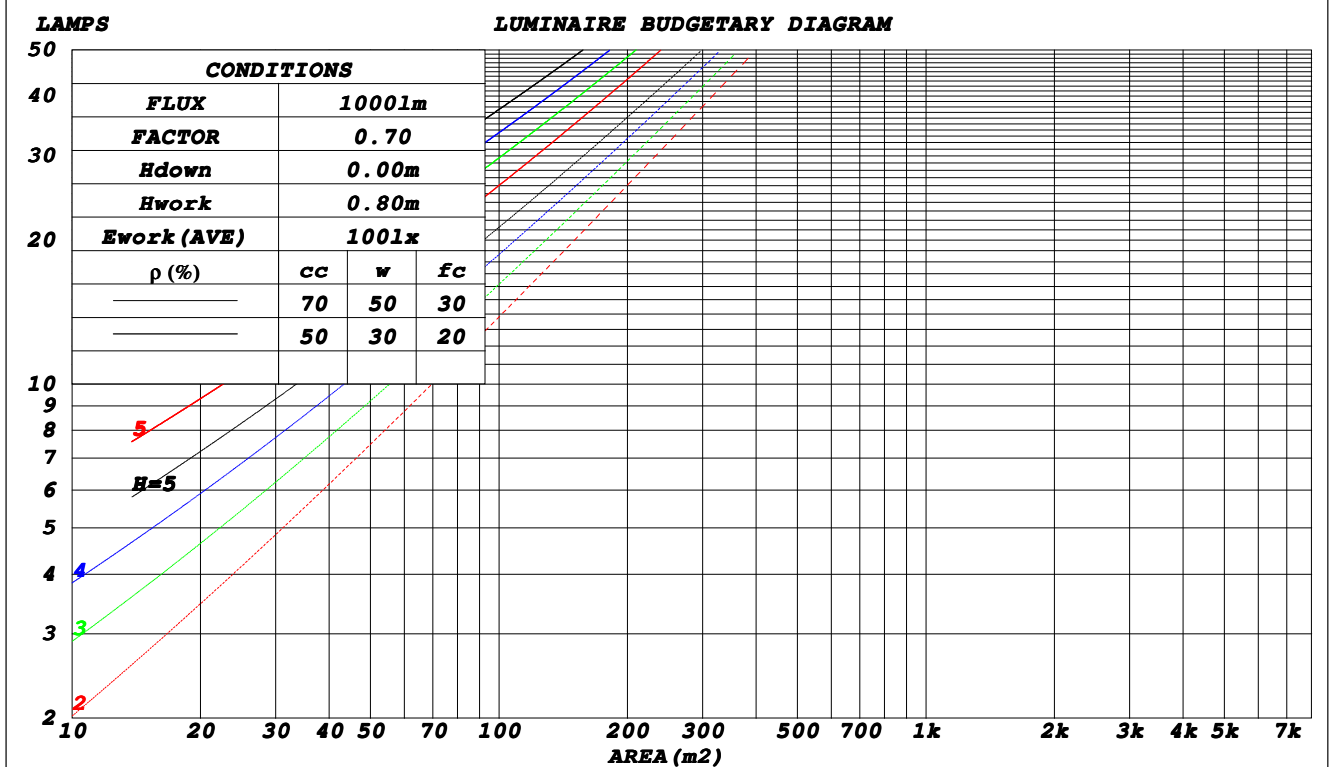
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: LITPA
Test Date: 21 January 2019

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity: 65.0%
Test Distance: 5.680m [K=1.0000]
Remarks: SCP-24W

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.50V I:0.1192A P:24.232W PF:0.9223 Freq:50.01Hz Lamp Flux:2078.02x1 lm		
NAME: SCP	TYPE: INDOOR	WEIGHT: 2kg
SPEC.: 24W	DIM.: Ø330-H70mm	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: LITPA
Test Date: 21 January 2019

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity: 65.0%
Test Distance: 5.680m [K=1.0000]
Remarks: SCP-24W

WEC AND CCEC

Test:U:220.50V I:0.1192A P:24.232W PF:0.9223 Freq:50.01Hz Lamp Flux:2078.02x1 lm		
NAME: SCP	TYPE:INDOOR	WEIGHT:2kg
SPEC.:24W	DIM.: Ø330-H70mm	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0	
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
ρ_{fc}	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.324	.184	.058	.317	.181	.057	.303	.174	.056	.291	.168	.054	.280	.162	.052		
2.0	.300	.164	.050	.293	.162	.050	.282	.157	.049	.271	.152	.048	.261	.147	.046		
3.0	.275	.146	.044	.270	.144	.043	.259	.140	.043	.249	.137	.042	.241	.133	.041		
4.0	.253	.131	.039	.248	.130	.038	.239	.127	.038	.230	.124	.037	.222	.121	.037		
5.0	.233	.119	.034	.229	.117	.034	.220	.115	.034	.213	.112	.033	.206	.110	.033		
6.0	.216	.108	.031	.212	.107	.031	.204	.105	.030	.198	.103	.030	.191	.101	.030		
7.0	.200	.099	.028	.197	.098	.028	.190	.096	.028	.184	.094	.027	.179	.093	.027		
8.0	.187	.091	.026	.184	.090	.026	.178	.089	.025	.172	.087	.025	.167	.086	.025		
9.0	.175	.085	.024	.172	.084	.024	.167	.083	.023	.162	.081	.023	.157	.080	.023		
10.0	.164	.079	.022	.162	.078	.022	.157	.077	.022	.153	.076	.022	.149	.075	.021		

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	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	.181	.156	.133	.155	.134	.115	.106	.092	.079	.061	.053	.046	.020	.017	.015	
2.0	.173	.132	.097	.148	.114	.084	.102	.079	.059	.059	.046	.034	.019	.015	.011	
3.0	.165	.114	.074	.142	.099	.064	.097	.069	.045	.056	.040	.026	.018	.013	.009	
4.0	.158	.101	.058	.135	.087	.050	.093	.061	.035	.054	.036	.021	.017	.012	.007	
5.0	.150	.091	.047	.129	.078	.041	.089	.055	.029	.051	.032	.017	.017	.011	.006	
6.0	.143	.082	.039	.123	.071	.034	.085	.050	.024	.049	.029	.014	.016	.010	.005	
7.0	.136	.075	.033	.117	.065	.029	.081	.046	.020	.047	.027	.012	.015	.009	.004	
8.0	.129	.070	.029	.111	.060	.025	.077	.042	.018	.045	.025	.011	.015	.008	.003	
9.0	.123	.065	.025	.106	.056	.022	.074	.039	.016	.043	.023	.009	.014	.008	.003	
10.0	.118	.060	.022	.101	.052	.019	.070	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: LITPA
Test Date: 21 January 2019

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity: 65.0%
Test Distance: 5.680m [K=1.0000]
Remarks: SCP-24W

UGR(Unified Glare Rating) Table

Test:U:220.50V I:0.1192A P:24.232W PF:0.9223 Freq:50.01Hz Lamp Flux:2078.02x1 lm											
NAME: SCP					TYPE: INDOOR			WEIGHT: 2kg			
SPEC.: 24W					DIM.: Ø330-H70mm			SERIAL No.:			
MFR.: LITPA AYDINLATMA					SUR.:			Shielding Angle:			
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	3H	19.4	20.9	19.6	21.1	21.3	19.2	20.8	19.5	21.0	21.2
	4H	21.0	22.4	21.3	22.6	22.9	20.8	22.3	21.1	22.5	22.7
	6H	21.7	23.0	22.0	23.3	23.5	21.5	22.9	21.8	23.1	23.4
	8H	22.2	23.5	22.6	23.8	24.1	22.0	23.3	22.4	23.6	23.9
	12H	22.4	23.7	22.8	24.0	24.3	22.2	23.5	22.6	23.7	24.0
		22.6	23.8	23.0	24.1	24.4	22.4	23.6	22.7	23.9	24.2
4H	2H	20.0	21.3	20.3	21.6	21.9	19.9	21.3	20.2	21.5	21.8
	3H	21.8	23.0	22.1	23.3	23.6	21.7	22.9	22.0	23.2	23.5
	4H	22.6	23.7	23.0	24.0	24.4	22.5	23.6	22.8	23.9	24.2
	6H	23.3	24.3	23.7	24.6	25.0	23.1	24.1	23.5	24.5	24.8
	8H	23.6	24.5	24.0	24.9	25.3	23.4	24.3	23.8	24.7	25.1
	12H	23.9	24.7	24.3	25.1	25.5	23.6	24.5	24.1	24.9	25.3
8H	4H	22.9	23.8	23.3	24.2	24.6	22.8	23.7	23.2	24.1	24.4
	6H	23.8	24.5	24.2	24.9	25.4	23.6	24.4	24.1	24.8	25.2
	8H	24.2	24.8	24.6	25.3	25.7	24.0	24.7	24.5	25.1	25.6
	12H	24.5	25.1	25.0	25.6	26.1	24.4	24.9	24.8	25.4	25.9
12H	4H	22.9	23.8	23.4	24.2	24.6	22.8	23.6	23.2	24.0	24.4
	6H	23.9	24.5	24.3	25.0	25.4	23.7	24.4	24.2	24.8	25.3
	8H	24.3	24.9	24.8	25.3	25.8	24.1	24.7	24.6	25.2	25.7
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2					
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					
2.0H	+ 0.1 / - 0.3					+ 0.1 / - 0.3					

CIE Pub.117, 2078 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 2.5$)

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: LITPA
 Test Date: 21 January 2019

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.400
 Humidity: 65.0%
 Test Distance: 5.680m [K=1.0000]
 Remarks: SCP-24W

UTILIZATION FACTORS TABLE

Test:U:220.50V I:0.1192A P:24.232W PF:0.9223 Freq:50.01Hz Lamp Flux:2078.02x1 lm		
NAME: SCP	TYPE: INDOOR	WEIGHT: 2kg
SPEC.: 24W	DIM.: Ø330-H70mm	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:

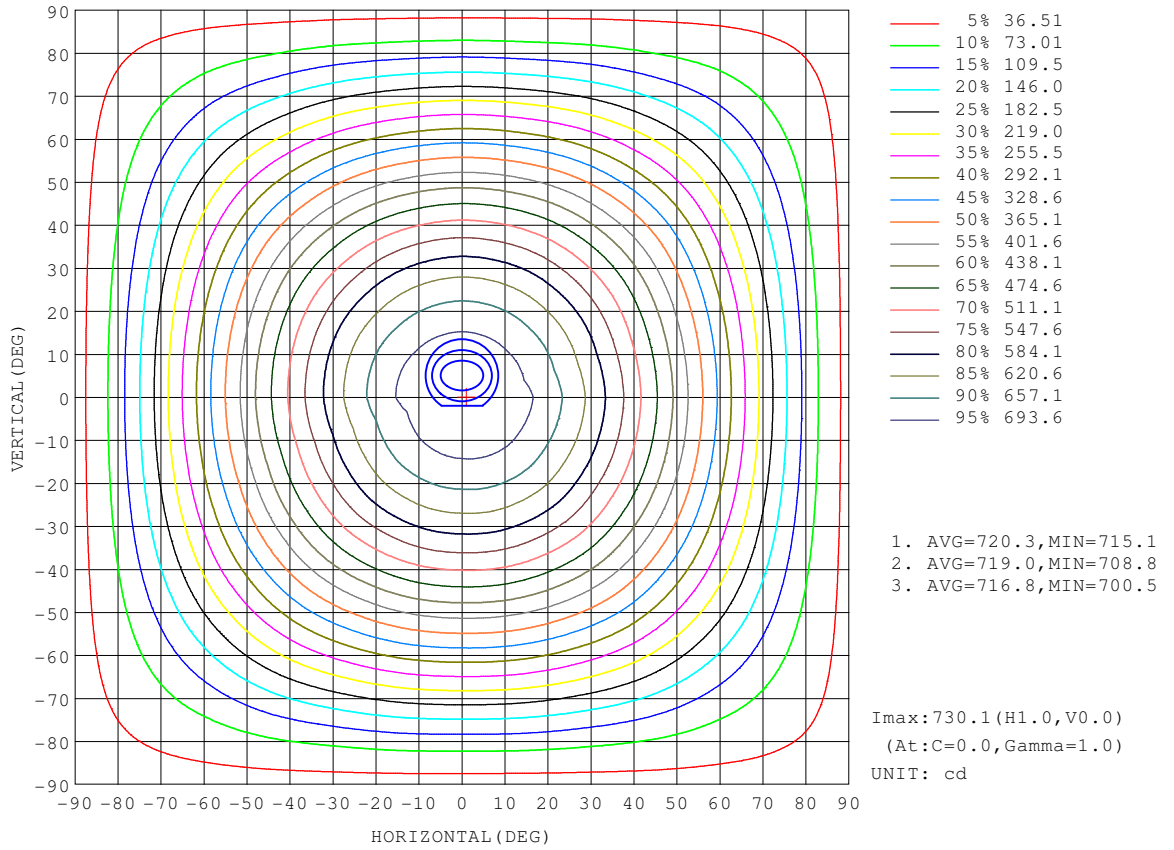
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	45	38	56	45	38	55	45	38	32
0.80	67	55	48	66	55	48	64	54	47	40
1.00	75	64	57	74	63	56	72	65	56	49
1.25	82	72	64	81	71	64	78	70	63	56
1.50	87	77	70	86	76	70	83	75	69	61
2.00	94	85	79	92	84	78	89	82	77	69
2.50	98	90	84	96	89	83	92	86	81	73
3.00	102	94	89	99	93	88	95	90	85	77
4.00	106	100	95	103	98	93	99	95	91	82
5.00	108	103	99	106	101	97	101	97	94	85
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: LITPA
 Test Date: 21 January 2019

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.400
 Humidity: 65.0%
 Test Distance: 5.680m [K=1.0000]
 Remarks: SCP-24W

ISOCANDELA DIAGRAM

Test:U:220.50V I:0.1192A P:24.232W PF:0.9223 Freq:50.01Hz Lamp Flux:2078.02x1 lm		
NAME: SCP	TYPE: INDOOR	WEIGHT: 2kg
SPEC.: 24W	DIM.: Ø330-H70mm	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:

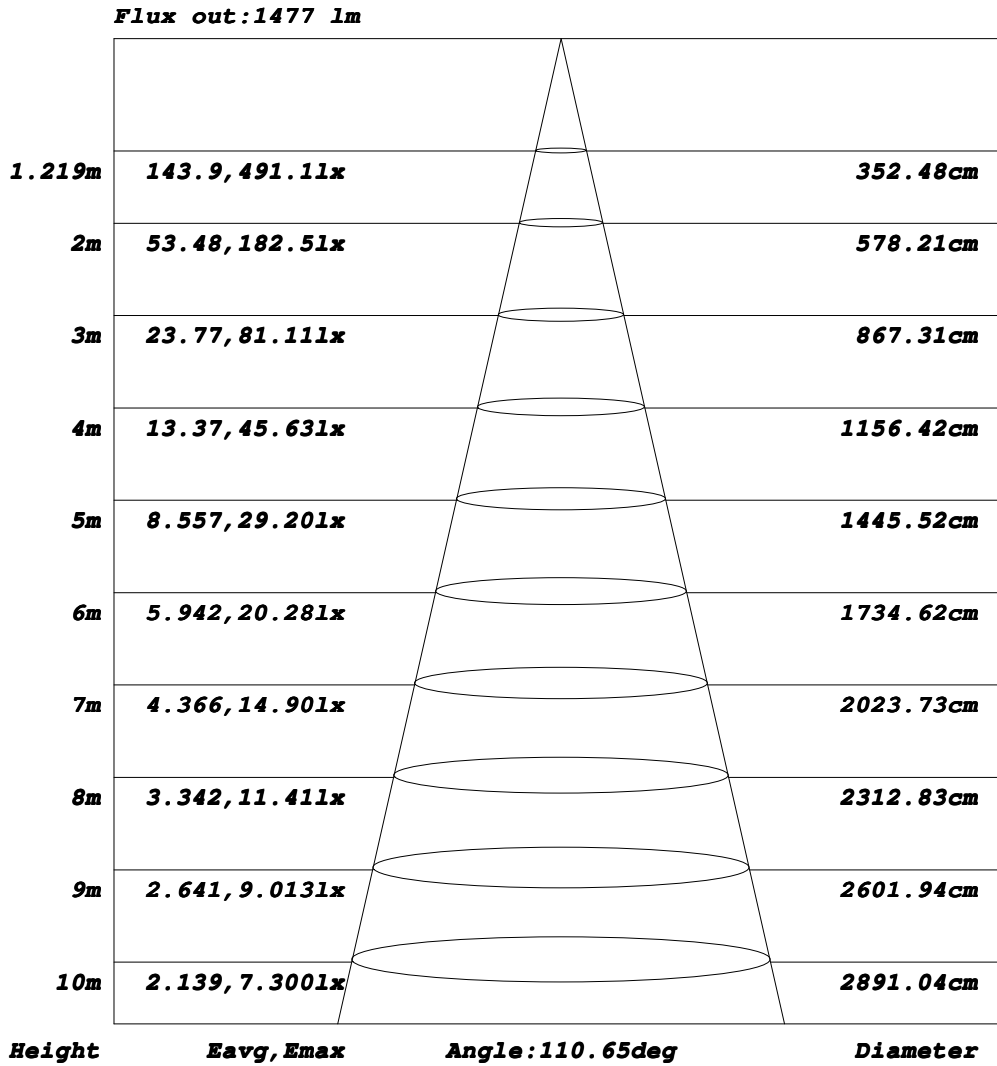


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: LITPA
 Test Date: 21 January 2019

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.400
 Humidity: 65.0%
 Test Distance: 5.680m [K=1.0000]
 Remarks: SCP-24W

AAI Figure

Test:U:220.50V I:0.1192A P:24.232W PF:0.9223 Freq:50.01Hz Lamp Flux:2078.02x1 lm		
NAME: SCP	TYPE: INDOOR	WEIGHT: 2kg
SPEC.: 24W	DIM.: Ø330-H70mm	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:



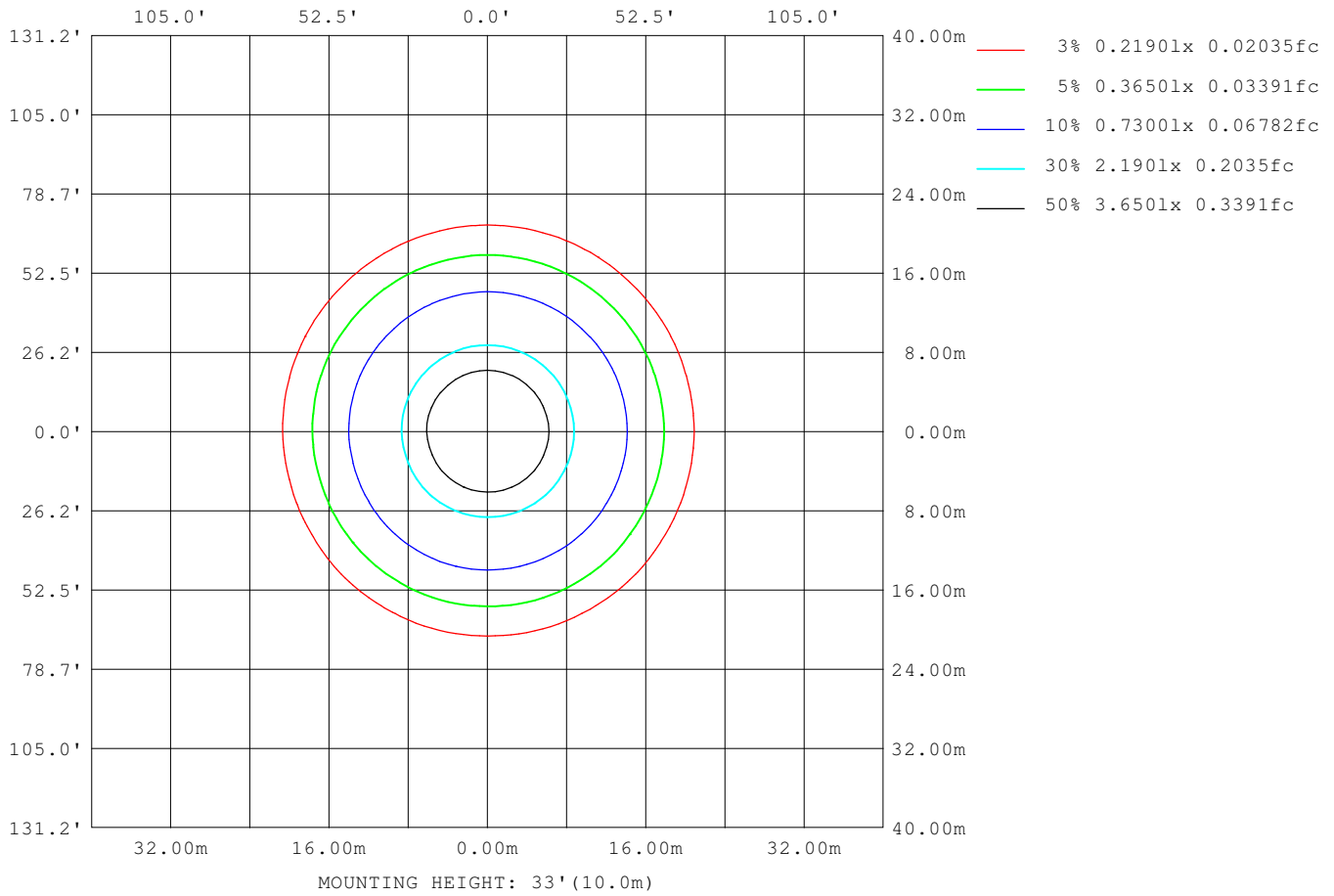
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: LITPA
 Test Date: 21 January 2019

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.400
 Humidity: 65.0%
 Test Distance: 5.680m [K=1.0000]
 Remarks: SCP-24W

ISOLUX DIAGRAM

Test:U:220.50V I:0.1192A P:24.232W PF:0.9223 Freq:50.01Hz Lamp Flux:2078.02x1 lm		
NAME: SCP	TYPE: INDOOR	WEIGHT: 2kg
SPEC.: 24W	DIM.: Ø330-H70mm	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: LITPA
Test Date: 21 January 2019

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity: 65.0%
Test Distance: 5.680m [K=1.0000]
Remarks: SCP-24W

LED Avg.L Report

Test:U:220.50V I:0.1192A P:24.232W PF:0.9223 Freq:50.01Hz Lamp Flux:2078.02x1 lm		
NAME: SCP	TYPE: INDOOR	WEIGHT: 2kg
SPEC.: 24W	DIM.: Ø330-H70mm	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:

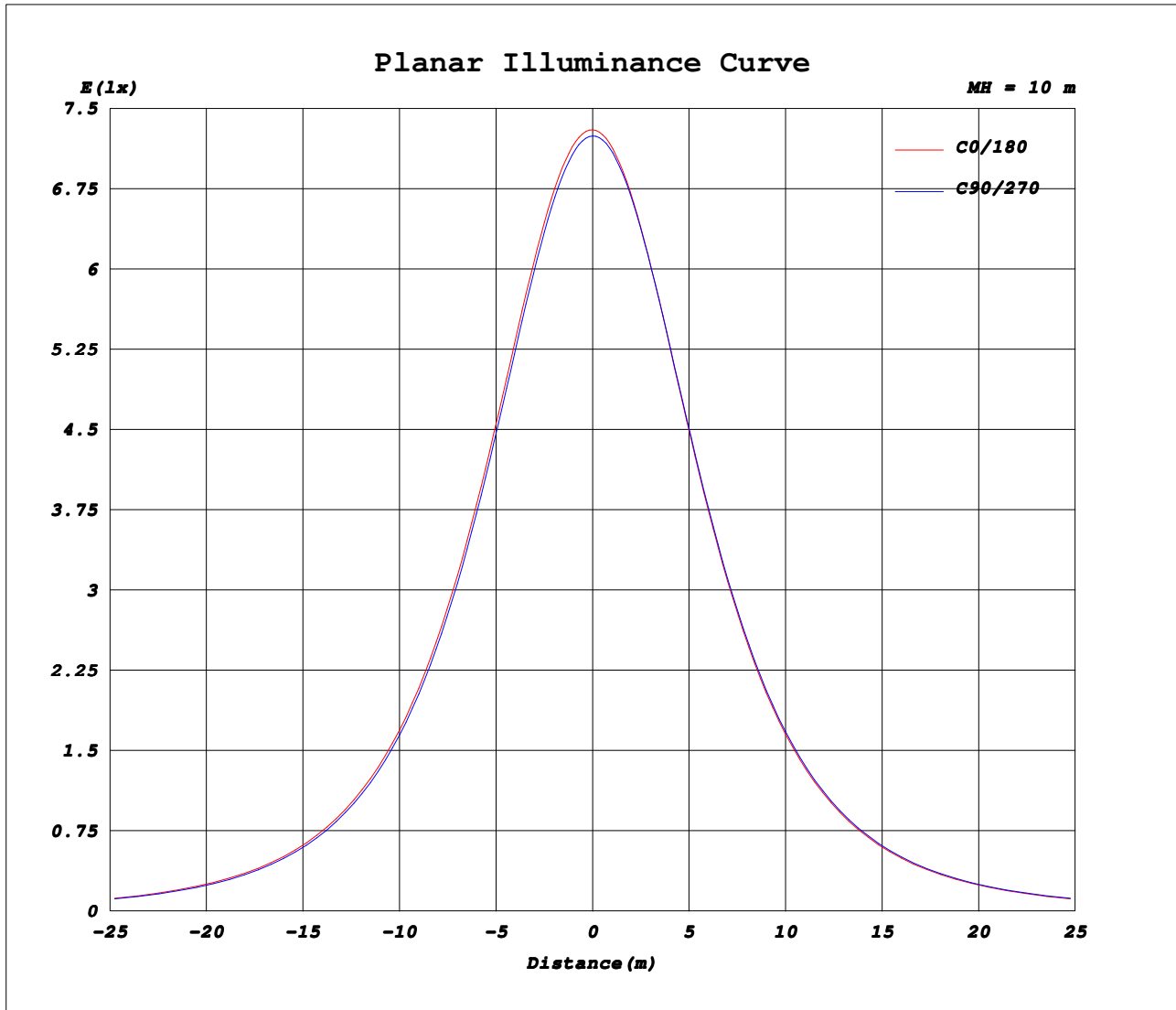
AvgL	cd/m2
L_0~180 (65) av	6134
L_0~180 (75) av	5717
L_0~180 (85) av	6168
L_90~270 (65) av	6144
L_90~270 (75) av	5732
L_90~270 (85) av	6226
L_45 (65) av	6141
L_45 (75) av	5736
L_45 (85) av	6195

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: LITPA
Test Date: 21 January 2019

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity: 65.0%
Test Distance: 5.680m [K=1.0000]
Remarks: SCP-24W

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: LITPA
Test Date: 21 January 2019

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity: 65.0%
Test Distance: 5.680m [K=1.0000]
Remarks: SCP-24W

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.50V I:0.1192A P:24.232W PF:0.9223 Freq:50.01Hz Lamp Flux:2078.02x1 lm		
NAME: SCP	TYPE:INDOOR	WEIGHT:2kg
SPEC.:24W	DIM.: Ø330-H70mm	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:

Table--1

UNIT: cd

[illegible]

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: LITPA
Test Date: 21 January 2019

```

Range: 0 - 90DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:5.680m [K=1.0000]
Remarks: SCP-24W

```

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.50V I:0.1192A P:24.232W PF:0.9223 Freq:50.01Hz Lamp Flux:2078.02x1 lm		
NAME: SCP	TYPE:INDOOR	WEIGHT:2kg
SPEC.:24W	DIM.: Ø330-H70mm	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:

Table--2

UNIT: cd

[illegible]

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: LITPA
Test Date: 21 January 2019

```

Range: 0 - 90DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:5.680m [K=1.0000]
Remarks: SCP-24W

```