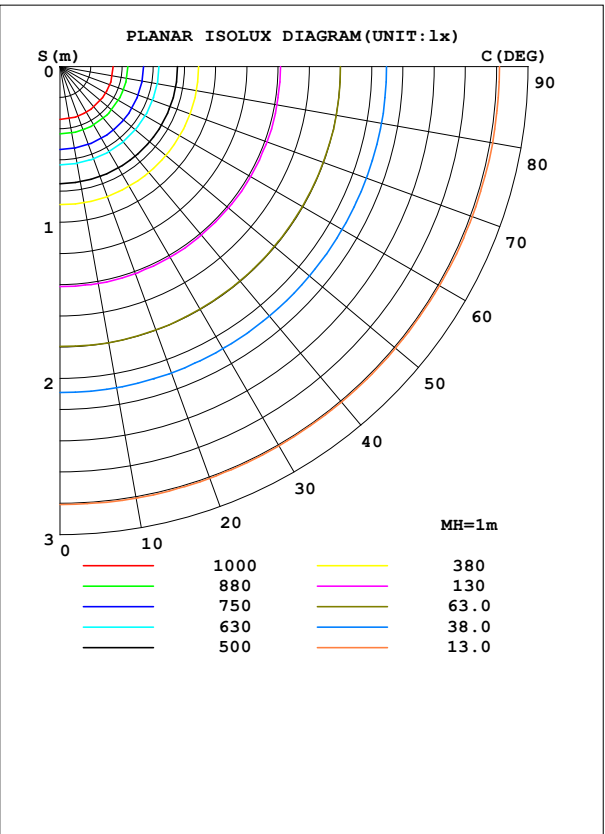
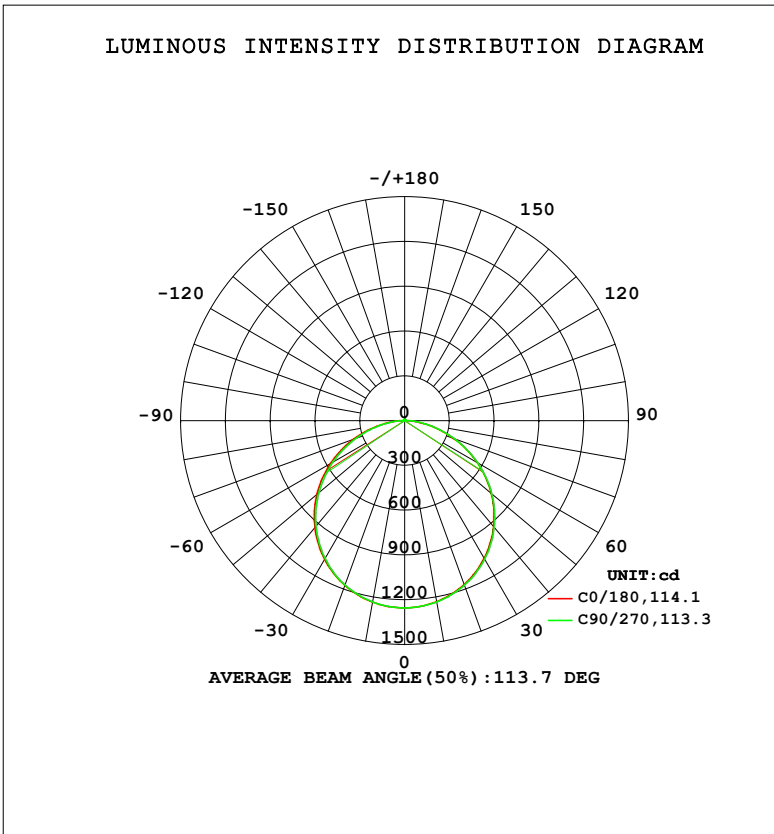


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.29V I:0.1594A P:35.502W PF:0.9671 Freq:0Hz Lamp Flux:3682.57x1 lm		
NAME:	TYPE: -	WEIGHT:
SPEC.: 230V 36W	DIM.:	SERIAL No.: 2023121301
MFR.:	SUR.: 0.555*0.555	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	S18701	Imax (cd)	1254	S/MH (C0/180)	1.27
NOMINAL POWER (W)	36	LOR (%)	100.0	S/MH (C90/270)	1.26
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	3682.6	<input type="checkbox"/> UP, DN (C0-180)	0.5,49.7
NOMINAL FLUX (lm)	3682.57	CIE CLASS	DIRECT	<input type="checkbox"/> UP, DN (C180-360)	0.6,49.2
LAMPS INSIDE	1	<input type="checkbox"/> up (%)	1.1	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	230	<input type="checkbox"/> down (%)	98.9	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: CJS
 Test Date: 2023-12-14

Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.459
 Humidity: 65.0%
 Test Distance: 26.000m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum,lamp
10	1232	1233	1234	1234	1235	1233	1233	1232	0- 10	118.7	118.7	3.22,3.22
20	1168	1171	1174	1174	1174	1171	1171	1168	10- 20	340.8	459.5	12.5,12.5
30	1065	1068	1073	1073	1073	1068	1065	1065	20- 30	518.5	978.0	26.6,26.6
40	926.9	931.2	934.3	936.9	935.7	928.7	922.8	924.0	30- 40	627.9	1606	43.6,43.6
50	757.7	760.4	763.5	767.1	766.6	756.3	748.7	750.9	40- 50	654.1	2260	61.4,61.4
60	562.9	563.3	566.9	571.0	572.4	560.2	552.1	553.8	50- 60	593.1	2853	77.5,77.5
70	351.2	351.6	356.2	359.3	363.0	350.1	343.4	343.7	60- 70	453.4	3306	89.8,89.8
80	146.4	150.4	155.4	154.1	153.8	147.6	144.8	143.7	70- 80	262.5	3569	96.9,96.9
90	6.021	6.181	6.188	6.183	6.070	6.002	5.887	6.003	80- 90	73.04	3642	98.9,98.9
100	5.766	5.759	5.705	5.820	6.494	6.546	6.494	6.608	90-100	6.562	3649	99.1,99.1
110	5.705	5.758	5.705	5.699	7.042	7.152	6.859	7.033	100-110	6.560	3655	99.3,99.3
120	5.705	5.758	5.705	5.638	7.527	7.213	6.919	7.215	110-120	6.366	3662	99.4,99.4
130	5.764	5.758	5.766	5.638	8.012	7.213	7.405	7.215	120-130	5.827	3667	99.6,99.6
140	5.827	5.758	6.070	5.638	8.133	7.213	7.405	7.215	130-140	5.194	3673	99.7,99.7
150	5.827	5.758	6.191	5.638	8.133	7.213	7.708	7.517	140-150	4.228	3677	99.8,99.8
160	6.249	6.122	6.252	6.123	8.073	7.213	7.162	7.637	150-160	3.153	3680	99.9,99.9
170	7.101	6.122	7.162	6.123	8.073	7.213	7.162	7.093	160-170	1.972	3682	100,100
180	7.101	6.243	7.162	6.184	7.951	7.213	7.101	7.093	170-180	0.6697	3683	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1935.2 lm

%lum = 52.5%

%lamp = 52.5%

Conical surface Flux(130deg): 3101.3 lm

%lum = 84.2%

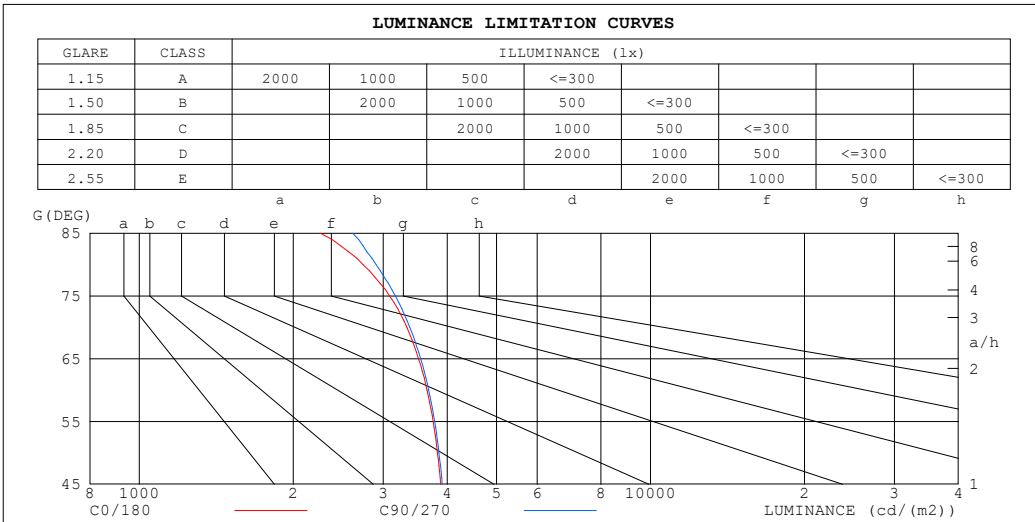
%lamp = 84.2%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:CJS
 Test Date:2023-12-14

□ Range: 0 - 180DEG
 □ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
 Humidity:65.0%
 Test Distance:26.000m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:230.29V I:0.1594A P:35.502W PF:0.9671 Freq:0Hz		
Lamp Flux:3682.57x1 lm		
NAME:	TYPE: -	WEIGHT:
SPEC.: 230V 36W	DIM.:	SERIAL No.: 2023121301
MFR.:	SUR.: 0.555*0.555	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2261	2615
80	2738	2905
75	3087	3166
70	3335	3380
65	3517	3550
60	3657	3680
55	3757	3781
50	3828	3856
45	3885	3914

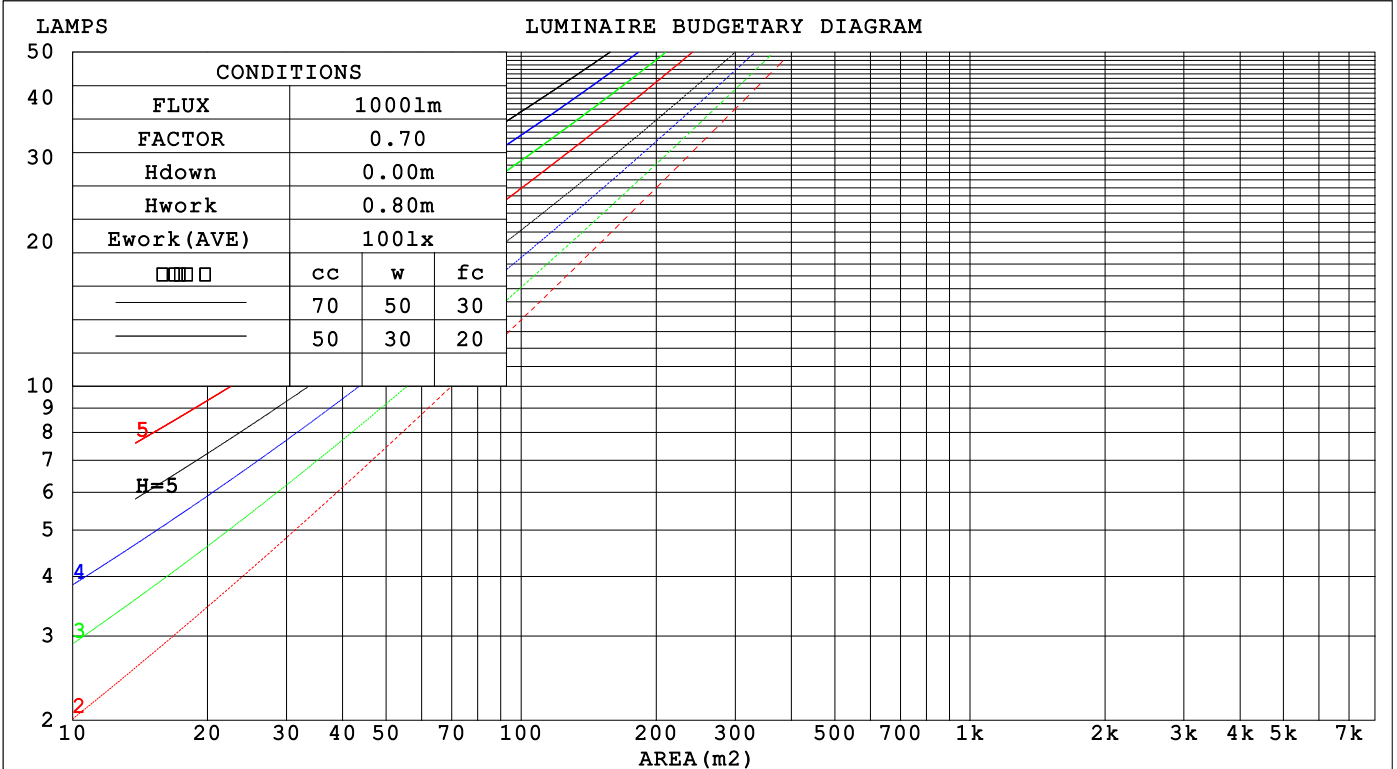
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:CJS
 Test Date:2023-12-14

Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
 Humidity:65.0%
 Test Distance:26.000m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.29V I:0.1594A P:35.502W PF:0.9671 Freq:0Hz Lamp Flux:3682.57x1 lm		
NAME:	TYPE: -	WEIGHT:
SPEC.: 230V 36W	DIM.:	SERIAL No.: 2023121301
MFR.:	SUR.: 0.555*0.555	Shielding Angle:

□cc	80%			70%			50%			30%			10%			0
□w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
□fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.10	1.10	1.10	1.06	1.06	1.06	1.01	1.01	1.01	.99
1.0	1.03	.99	.95	1.01	.97	.94	.97	.93	.90	.93	.90	.87	.89	.87	.85	.82
2.0	.90	.83	.77	.88	.82	.76	.84	.79	.74	.81	.76	.72	.78	.74	.71	.68
3.0	.79	.71	.64	.77	.70	.63	.74	.68	.62	.71	.66	.61	.68	.64	.60	.57
4.0	.70	.61	.54	.68	.60	.54	.66	.59	.53	.63	.57	.52	.61	.56	.51	.49
5.0	.62	.53	.47	.61	.53	.46	.59	.51	.46	.57	.50	.45	.55	.49	.44	.42
6.0	.56	.47	.41	.55	.47	.40	.53	.46	.40	.51	.45	.39	.50	.44	.39	.37
7.0	.51	.42	.36	.50	.42	.36	.48	.41	.35	.47	.40	.35	.45	.39	.35	.33
8.0	.46	.38	.32	.46	.37	.32	.44	.37	.31	.43	.36	.31	.42	.35	.31	.29
9.0	.42	.34	.29	.42	.34	.29	.41	.33	.28	.39	.33	.28	.38	.32	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.38	.30	.26	.37	.30	.25	.36	.30	.25	.24



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:CJS
 Test Date:2023-12-14

□ Range: 0 - 180DEG
 □ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
 Humidity:65.0%
 Test Distance:26.000m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:230.29V I:0.1594A P:35.502W PF:0.9671 Freq:0Hz		
Lamp Flux:3682.57x1 lm		
NAME:	TYPE: -	WEIGHT:
SPEC.: 230V 36W	DIM.:	SERIAL No.: 2023121301
MFR.:	SUR.: 0.555*0.555	Shielding Angle:

<input type="checkbox"/> cc	80%			70%			50%			30%			10%			0
<input type="checkbox"/> w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
<input type="checkbox"/> fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.312	.177	.056	.305	.174	.055	.291	.167	.053	.278	.160	.051	.266	.154	.050	
2.0	.293	.161	.049	.287	.158	.049	.274	.153	.047	.263	.148	.046	.253	.143	.045	
3.0	.271	.144	.043	.265	.142	.043	.254	.138	.042	.244	.134	.041	.235	.130	.040	
4.0	.250	.130	.038	.245	.128	.038	.235	.125	.037	.226	.121	.037	.218	.118	.036	
5.0	.231	.118	.034	.226	.116	.034	.218	.113	.033	.210	.111	.033	.202	.108	.032	
6.0	.214	.107	.031	.210	.106	.031	.202	.104	.030	.195	.101	.030	.188	.099	.029	
7.0	.199	.098	.028	.196	.097	.028	.189	.095	.027	.182	.093	.027	.176	.092	.027	
8.0	.186	.091	.026	.183	.090	.025	.177	.088	.025	.171	.086	.025	.165	.085	.025	
9.0	.174	.084	.024	.171	.084	.023	.166	.082	.023	.161	.080	.023	.156	.079	.023	
10.0	.164	.079	.022	.161	.078	.022	.156	.076	.022	.151	.075	.021	.147	.074	.021	

<input type="checkbox"/> cc	80%			70%			50%			30%			10%			0
<input type="checkbox"/> w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
<input type="checkbox"/> fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.199	.199	.199	.170	.170	.170	.116	.116	.116	.067	.067	.067	.021	.021	.021	
1.0	.189	.165	.143	.162	.141	.123	.111	.097	.085	.064	.056	.049	.020	.018	.016	
2.0	.181	.140	.106	.155	.121	.092	.106	.084	.064	.061	.049	.038	.020	.016	.012	
3.0	.173	.123	.083	.149	.106	.072	.102	.074	.050	.059	.043	.030	.019	.014	.010	
4.0	.166	.110	.067	.142	.095	.058	.098	.066	.041	.057	.039	.024	.018	.013	.008	
5.0	.158	.099	.056	.136	.086	.048	.094	.060	.034	.054	.035	.020	.017	.011	.007	
6.0	.151	.091	.048	.130	.079	.042	.090	.055	.029	.052	.032	.017	.017	.011	.006	
7.0	.144	.084	.042	.124	.073	.036	.086	.051	.026	.050	.030	.015	.016	.010	.005	
8.0	.138	.078	.037	.119	.068	.033	.082	.048	.023	.048	.028	.014	.015	.009	.005	
9.0	.132	.073	.034	.113	.064	.030	.079	.045	.021	.046	.026	.013	.015	.009	.004	
10.0	.126	.069	.031	.109	.060	.027	.075	.042	.019	.044	.025	.012	.014	.008	.004	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:CJS
 Test Date:2023-12-14

Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
 Humidity:65.0%
 Test Distance:26.000m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:230.29V I:0.1594A P:35.502W PF:0.9671 Freq:0Hz Lamp Flux:3682.57x1 lm		
NAME:	TYPE: -	WEIGHT:
SPEC.: 230V 36W	DIM.:	SERIAL No.: 2023121301
MFR.:	SUR.: 0.555*0.555	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	17.4	19.0	17.7	19.2	19.4	17.5	19.0	17.7	19.2	19.4
3H	19.0	20.4	19.3	20.6	20.9	19.0	20.4	19.3	20.6	20.9
4H	19.6	20.9	19.9	21.2	21.4	19.6	20.9	19.9	21.2	21.5
6H	20.0	21.2	20.3	21.5	21.8	20.1	21.3	20.4	21.6	21.9
8H	20.1	21.3	20.5	21.6	21.9	20.2	21.4	20.6	21.7	22.0
12H	20.2	21.3	20.6	21.7	22.0	20.3	21.5	20.7	21.8	22.1
4H 2H	18.0	19.4	18.4	19.6	19.9	18.1	19.4	18.4	19.7	19.9
3H	19.8	20.9	20.1	21.2	21.6	19.8	20.9	20.1	21.3	21.6
4H	20.5	21.5	20.9	21.9	22.2	20.5	21.6	20.9	21.9	22.3
6H	21.0	22.0	21.4	22.3	22.7	21.1	22.1	21.5	22.4	22.8
8H	21.2	22.1	21.6	22.5	22.9	21.3	22.2	21.7	22.6	23.0
12H	21.3	22.1	21.8	22.5	23.0	21.5	22.3	21.9	22.7	23.1
8H 4H	20.7	21.6	21.2	22.0	22.4	20.8	21.7	21.2	22.1	22.5
6H	21.4	22.2	21.9	22.6	23.0	21.5	22.3	22.0	22.7	23.1
8H	21.7	22.3	22.2	22.8	23.3	21.8	22.5	22.3	22.9	23.4
12H	21.9	22.4	22.4	22.9	23.4	22.1	22.6	22.6	23.1	23.6
12H 4H	20.8	21.6	21.2	22.0	22.4	20.8	21.6	21.2	22.0	22.4
6H	21.5	22.1	22.0	22.6	23.1	21.6	22.2	22.1	22.7	23.2
8H	21.8	22.4	22.3	22.8	23.3	21.9	22.5	22.4	22.9	23.4
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.2 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117, 3683 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 4.5)
Area: 0.308 m2

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:CJS
Test Date:2023-12-14

Range: 0 - 180DEG
 Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:65.0%
Test Distance:26.000m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:230.29V I:0.1594A P:35.502W PF:0.9671 Freq:0Hz Lamp Flux:3682.57x1 lm		
NAME:	TYPE: -	WEIGHT:
SPEC.: 230V 36W	DIM.:	SERIAL No.: 2023121301
MFR.:	SUR.: 0.555*0.555	Shielding Angle:

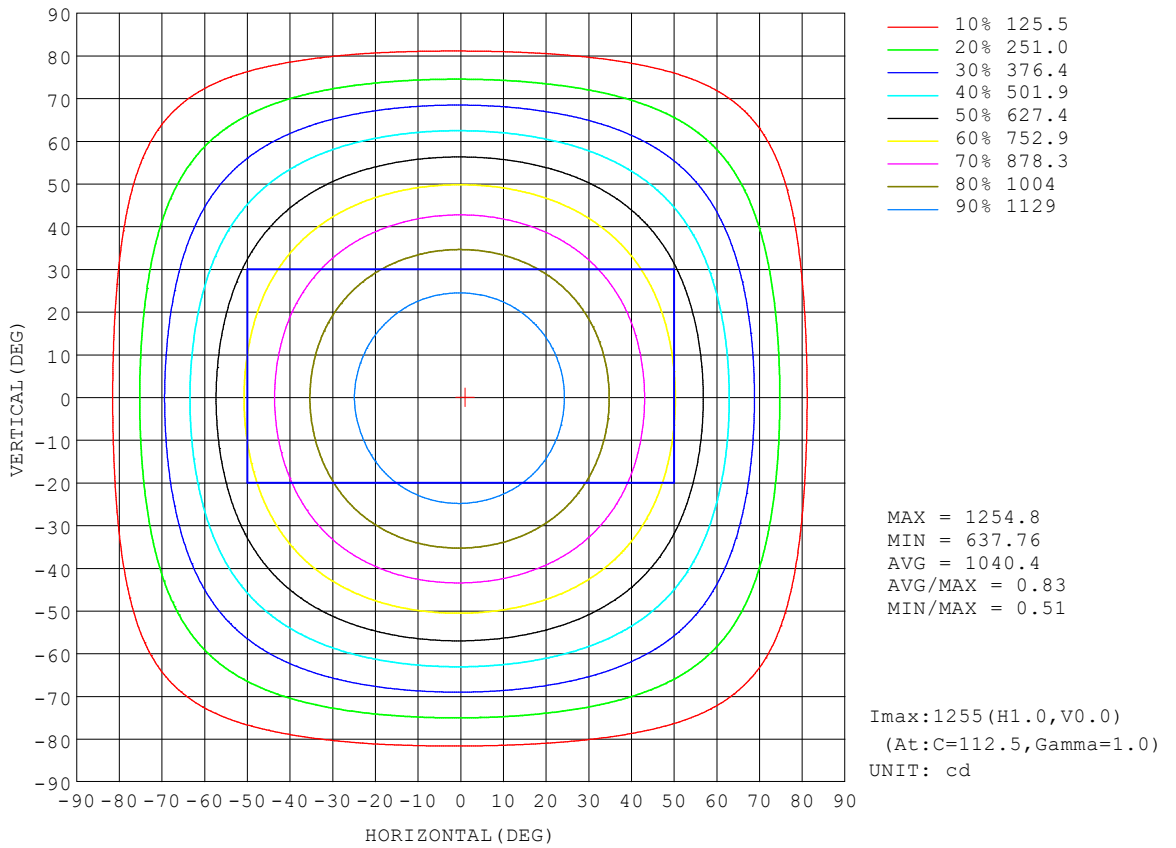
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	57	45	38	56	45	38	55	44	38	31
0.80	67	55	48	66	55	48	64	54	47	40
1.00	75	64	57	74	63	56	72	65	56	49
1.25	82	72	65	81	71	64	78	70	63	56
1.50	87	77	70	86	77	70	83	75	69	61
2.00	94	86	79	92	84	78	89	82	77	69
2.50	98	90	84	96	89	83	92	86	81	73
3.00	102	95	89	99	93	88	95	90	86	77
4.00	106	100	95	103	98	94	99	95	91	82
5.00	108	103	99	106	101	98	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: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:CJS
 Test Date:2023-12-14

Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
 Humidity:65.0%
 Test Distance:26.000m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:230.29V I:0.1594A P:35.502W PF:0.9671 Freq:0Hz		
Lamp Flux:3682.57x1 lm		
NAME:	TYPE: -	WEIGHT:
SPEC.: 230V 36W	DIM.:	SERIAL No.: 2023121301
MFR.:	SUR.: 0.555*0.555	Shielding Angle:

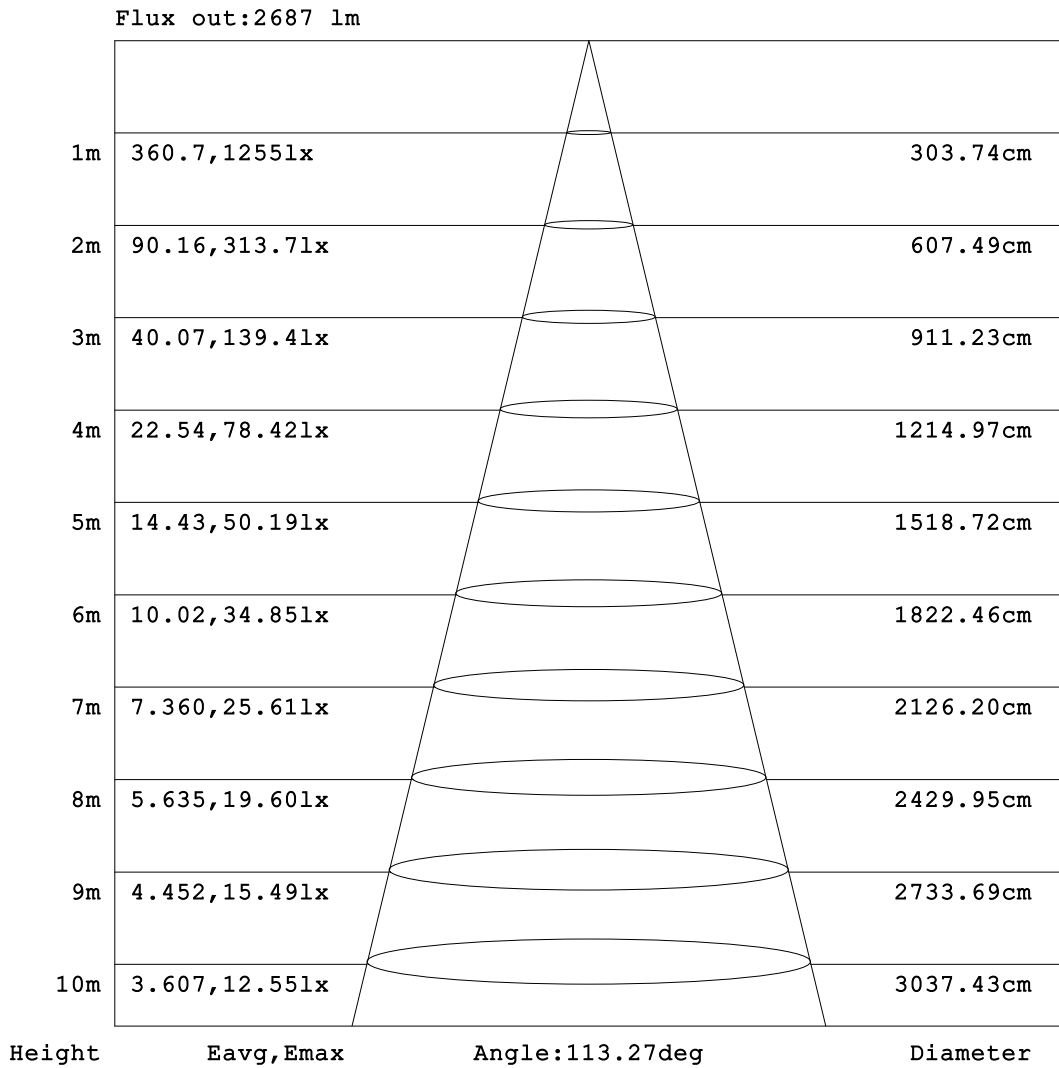


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:CJS
 Test Date:2023-12-14

Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
 Humidity:65.0%
 Test Distance:26.000m [K=1.0000]
 Remarks:

AAI Figure

Test:U:230.29V I:0.1594A P:35.502W PF:0.9671 Freq:0Hz Lamp Flux:3682.57x1 lm		
NAME:	TYPE: -	WEIGHT:
SPEC.: 230V 36W	DIM.:	SERIAL No.: 2023121301
MFR.:	SUR.: 0.555*0.555	Shielding Angle:



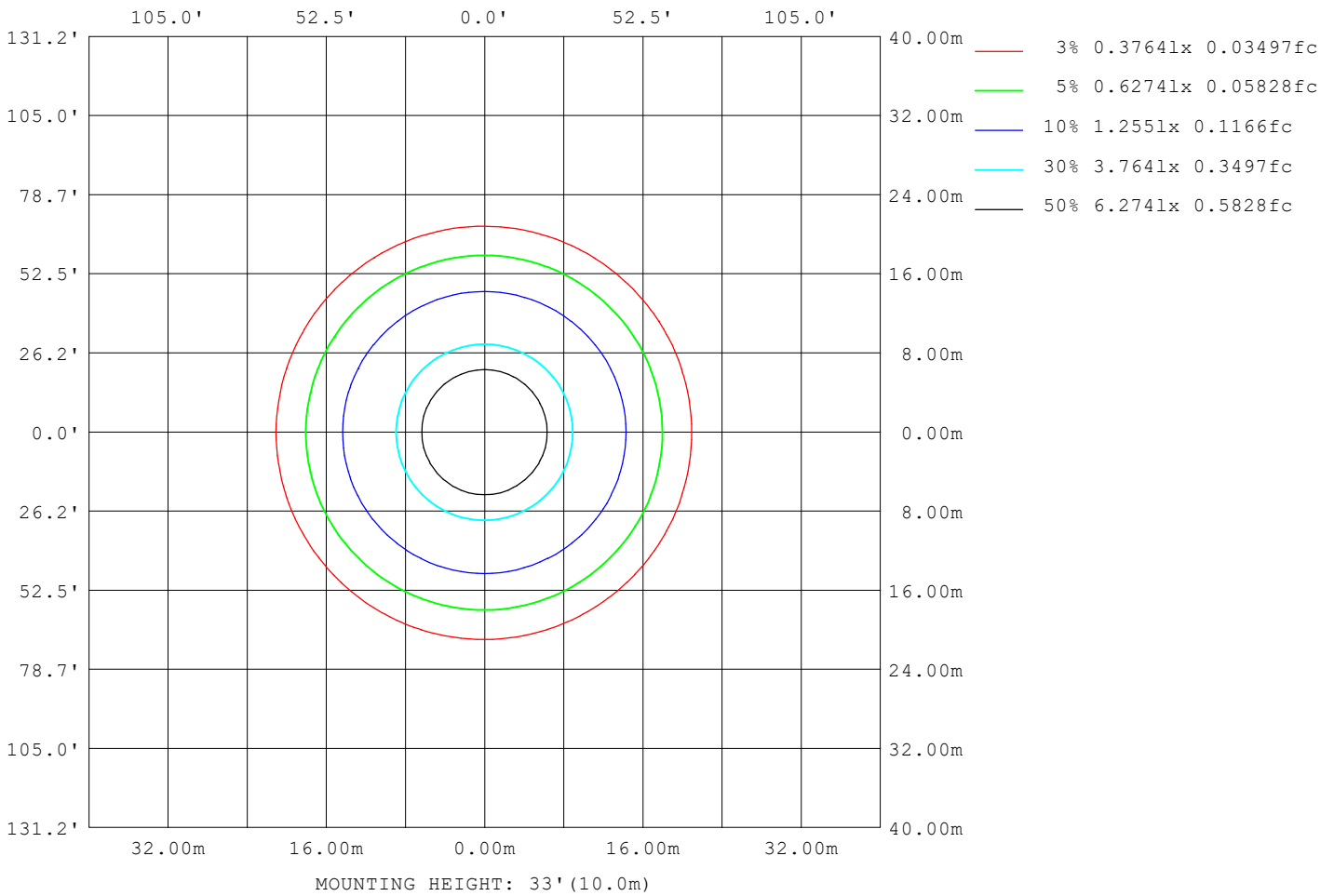
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:CJS
 Test Date:2023-12-14

Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
 Humidity:65.0%
 Test Distance:26.000m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:230.29V I:0.1594A P:35.502W PF:0.9671 Freq:0Hz Lamp Flux:3682.57x1 lm		
NAME:	TYPE: -	WEIGHT:
SPEC.: 230V 36W	DIM.:	SERIAL No.: 2023121301
MFR.:	SUR.: 0.555*0.555	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:CJS
 Test Date:2023-12-14

Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
 Humidity:65.0%
 Test Distance:26.000m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:230.29V I:0.1594A P:35.502W PF:0.9671 Freq:0Hz Lamp Flux:3682.57x1 lm		
NAME:	TYPE: -	WEIGHT:
SPEC.: 230V 36W	DIM.:	SERIAL No.: 2023121301
MFR.:	SUR.: 0.555*0.555	Shielding Angle:

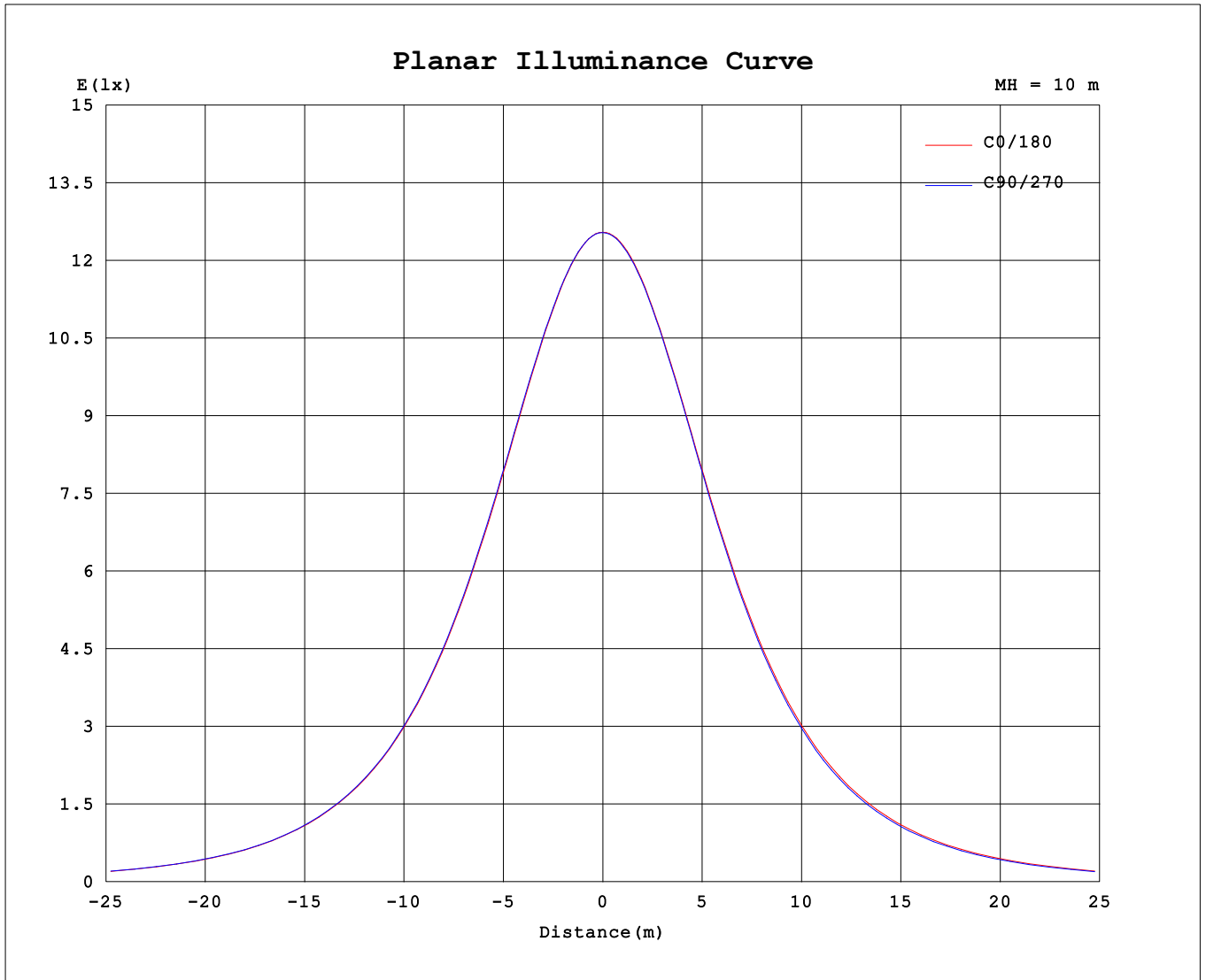
AvgL	cd/m2
L_0~180 (65) av	3560
L_0~180 (75) av	3146
L_0~180 (85) av	2376
L_90~270 (65) av	3498
L_90~270 (75) av	3092
L_90~270 (85) av	2434
L_45 (65) av	3514
L_45 (75) av	3103
L_45 (85) av	2303

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:CJS
 Test Date:2023-12-14

Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
 Humidity:65.0%
 Test Distance:26.000m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: CJS
Test Date: 2023-12-14

Range: 0 - 180DEG
 Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity: 65.0%
Test Distance: 26.000m [K=1.0000]
Remarks: