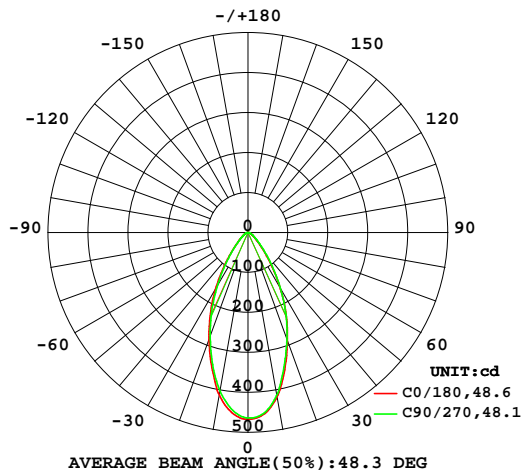


## LUMINAIRE PHOTOMETRIC TEST REPORT

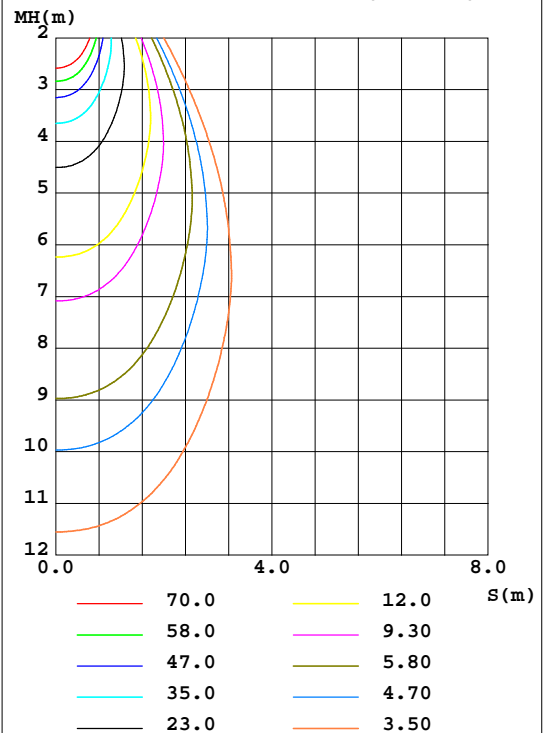
Test:U:228.69V I:0.0313A P:6.0577W PF:0.8461 Freq:49.99Hz Lamp Flux:369.914x1 lm		
NAME: 5RS230-2	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 61.06 lm/W			
MODEL	3000K	I <sub>max</sub> (cd)	467.0	S/MH(C0/180)	0.74
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	0.72
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	369.91	h UP,DN(C0-180)	0.0,51.0
NOMINAL FLUX(lm)	369.914	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.0,49.0
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	230V	h down(%)	100.0	CIBSE SHR MAX	0.80

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
 C Interval: 2.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: will  
 Test Date: 11 September 2023

g Range: 0 - 90DEG  
 Interval: 0.5DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.416  
 Humidity: 65.0%  
 Test Distance: 8.989m [K=1.0000]  
 Remarks:

## ZONAL FLUX DIAGRAM

### ZONAL FLUX DIAGRAM:

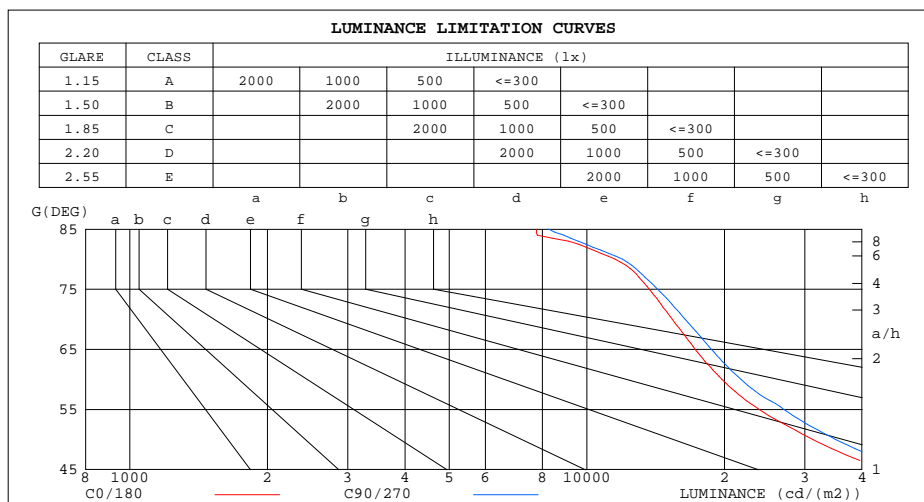
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
5	456.5	454.9	453.9	454.0	453.4	449.0	446.0	449.0	0- 5	10.97	10.97	2.96,2.96
10	418.1	415.5	413.9	413.9	413.2	406.9	402.7	407.2	5- 10	30.86	41.83	11.3,11.3
15	356.1	351.7	349.1	349.5	349.8	345.4	342.5	346.7	10- 15	44.95	86.78	23.5,23.5
20	289.2	287.1	285.9	286.1	285.6	280.5	276.9	280.4	15- 20	51.84	138.6	37.5,37.5
25	226.5	226.1	225.5	224.7	223.0	217.9	214.6	218.0	20- 25	52.79	191.4	51.7,51.7
30	162.8	164.0	164.3	164.0	162.3	156.8	152.8	155.4	25- 30	48.06	239.5	64.7,64.7
35	106.7	110.2	111.4	109.8	106.9	103.1	100.6	102.1	30- 35	38.78	278.3	75.2,75.2
40	65.03	69.50	71.10	68.94	65.66	63.72	62.75	63.24	35- 40	28.27	306.5	82.9,82.9
45	39.48	42.87	44.04	42.27	39.75	38.73	38.38	38.62	40- 45	19.28	325.8	88.1,88.1
50	25.24	27.51	28.32	27.19	25.53	24.76	24.44	24.60	45- 50	13.11	338.9	91.6,91.6
55	17.18	18.83	19.45	18.73	17.59	16.88	16.49	16.61	50- 55	9.329	348.2	94.1,94.1
60	12.41	13.34	13.66	13.20	12.50	12.08	11.87	11.99	55- 60	6.909	355.1	96,96
65	9.165	9.754	9.943	9.611	9.124	8.813	8.666	8.796	60- 65	5.271	360.4	97.4,97.4
70	6.608	6.968	7.054	6.775	6.398	6.152	6.057	6.221	65- 70	3.971	364.4	98.5,98.5
75	4.456	4.642	4.642	4.387	4.085	3.926	3.906	4.090	70- 75	2.805	367.2	99.3,99.3
80	2.515	2.646	2.609	2.334	2.032	1.898	1.912	2.123	75- 80	1.743	368.9	99.7,99.7
85	0.8520	0.9171	0.9025	0.7657	0.6342	0.6560	0.7269	0.7854	80- 85	0.7698	369.7	99.9,99.9
90	0.0458	0.0466	0.0458	0.0425	0.0392	0.0384	0.0392	0.0417	85- 90	0.2069	369.9	100,100
95									90- 95			
100									95-100			
105									100-105			
110									105-110			
115									110-115			
120									115-120			
125									120-125			
130									125-130			
135									130-135			
140									135-140			
145									140-145			
150									145-150			
155									150-155			
160									155-160			
165									160-165			
170									165-170			
175									170-175			
180									175-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG  
 C Interval: 2.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:will  
 Test Date:11 September 2023

g Range: 0 - 90DEG  
 g Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.416  
 Humidity:65.0%  
 Test Distance:8.989m [K=1.0000]  
 Remarks:

## LUMINANCE LIMITATION CURVES

Test:U:228.69V I:0.0313A P:6.0577W PF:0.8461 Freq:49.99Hz Lamp Flux:369.914x1 lm		
NAME: 5RS230-2	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	7783	8245
80	11532	11961
75	13708	14281
70	15382	16420
65	17266	18733
60	19769	21759
55	23846	27004
50	31263	35074
45	44449	49593

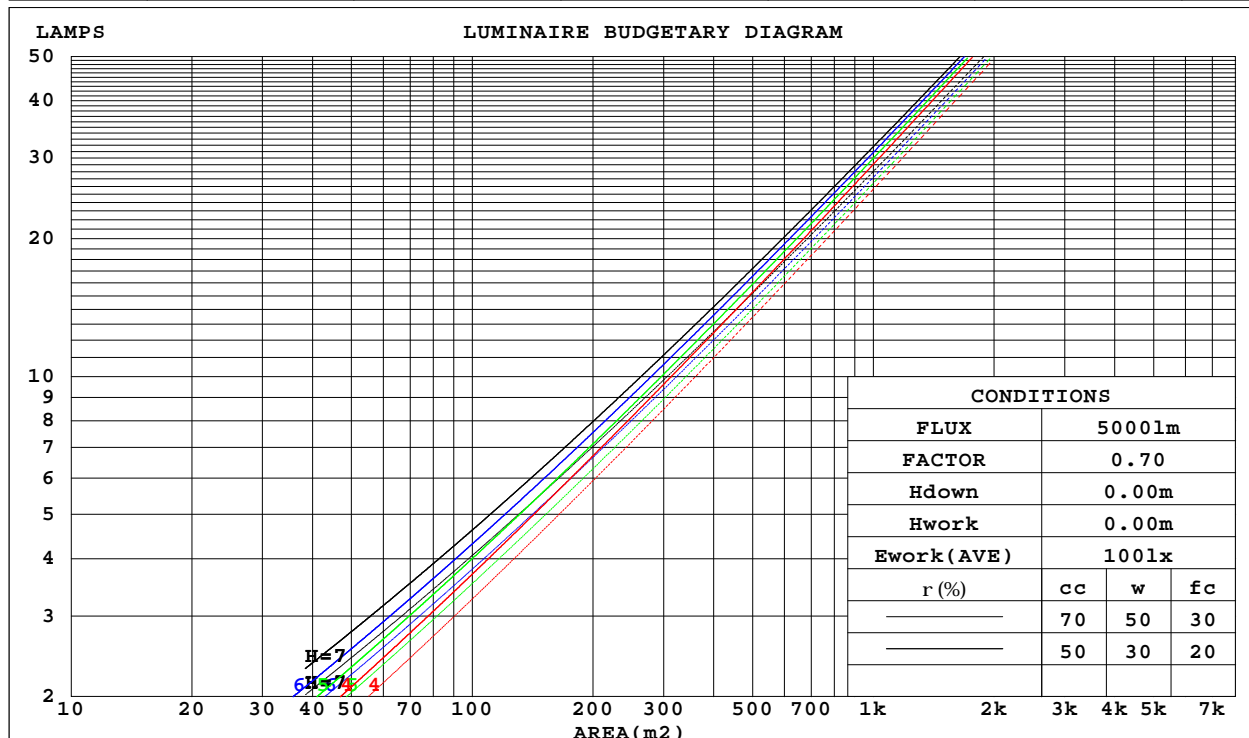
C Range: 0 - 360DEG  
C Interval: 2.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:will  
Test Date:11 September 2023

g Range: 0 - 90DEG  
g Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.416  
Humidity:65.0%  
Test Distance:8.989m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:228.69V I:0.0313A P:6.0577W PF:0.8461 Freq:49.99Hz Lamp Flux:369.914x1 lm		
NAME: 5RS230-2	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

r <sub>cc</sub>	80%			70%			50%			30%			10%			0
r <sub>w</sub>	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r <sub>fc</sub>	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															



C Range: 0 - 360DEG  
C Interval: 2.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:will  
Test Date:11 September 2023

g Range: 0 - 90DEG  
g Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.416  
Humidity:65.0%  
Test Distance:8.989m [K=1.0000]  
Remarks:

## WEC AND CCEC

Test:U:228.69V I:0.0313A P:6.0577W PF:0.8461 Freq:49.99Hz Lamp Flux:369.914x1 lm		
NAME: 5RS230-2	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Wall Exitance Coefficients(WEC)															
0.0																
1.0	.198	.113	.036	.191	.109	.035	.178	.102	.033	.167	.096	.031	.156	.090	.029	
2.0	.189	.104	.032	.183	.101	.031	.173	.096	.030	.163	.091	.029	.154	.087	.027	
3.0	.179	.095	.029	.174	.093	.028	.165	.089	.027	.156	.086	.026	.148	.082	.025	
4.0	.169	.088	.026	.165	.086	.026	.157	.083	.025	.150	.080	.024	.143	.077	.024	
5.0	.160	.082	.024	.156	.080	.023	.149	.078	.023	.143	.075	.022	.137	.073	.022	
6.0	.152	.076	.022	.148	.075	.022	.142	.073	.021	.136	.071	.021	.131	.069	.020	
7.0	.144	.071	.020	.141	.070	.020	.136	.069	.020	.131	.067	.019	.126	.065	.019	
8.0	.137	.067	.019	.134	.066	.019	.130	.065	.018	.125	.063	.018	.121	.062	.018	
9.0	.131	.063	.018	.128	.063	.018	.124	.061	.017	.120	.060	.017	.116	.059	.017	
10.0	.125	.060	.017	.123	.059	.017	.119	.058	.016	.115	.057	.016	.111	.056	.016	

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	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	.173	.157	.143	.148	.135	.123	.101	.093	.085	.058	.054	.050	.019	.017	.016	
2.0	.159	.132	.110	.136	.114	.095	.093	.079	.067	.054	.046	.039	.017	.015	.013	
3.0	.147	.114	.087	.126	.098	.076	.087	.068	.053	.050	.040	.031	.016	.013	.010	
4.0	.137	.099	.070	.118	.086	.061	.081	.060	.043	.047	.035	.025	.015	.011	.008	
5.0	.129	.088	.058	.111	.076	.050	.076	.053	.035	.044	.031	.021	.014	.010	.007	
6.0	.121	.079	.048	.104	.068	.042	.072	.048	.030	.042	.028	.018	.013	.009	.006	
7.0	.115	.071	.041	.099	.062	.035	.068	.043	.025	.040	.025	.015	.013	.008	.005	
8.0	.109	.065	.035	.094	.056	.030	.065	.040	.022	.038	.023	.013	.012	.008	.004	
9.0	.104	.060	.030	.089	.052	.026	.062	.037	.019	.036	.022	.011	.012	.007	.004	
10.0	.099	.055	.027	.085	.048	.023	.059	.034	.017	.034	.020	.010	.011	.007	.003	

C Range: 0 - 360DEG  
C Interval: 2.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:will  
Test Date:11 September 2023

g Range: 0 - 90DEG  
g Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.416  
Humidity:65.0%  
Test Distance:8.989m [K=1.0000]  
Remarks:

## UGR(Unified Glare Rating) Table

Test:U:228.69V I:0.0313A P:6.0577W PF:0.8461 Freq:49.99Hz Lamp Flux:369.914x1 lm											
NAME: 5RS230-2					TYPE:			WEIGHT:			
SPEC.:					DIM.:			SERIAL No.:			
MFR.: EVERFINE					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	21.9	23.0	22.2	23.2	23.3	22.2	23.3	22.5	23.5	23.6	
	3H	22.3	23.3	22.6	23.5	23.7	22.6	23.6	22.9	23.8	24.0
	4H	22.5	23.4	22.8	23.6	23.8	22.8	23.7	23.1	23.9	24.1
	6H	22.6	23.4	22.9	23.7	23.9	22.9	23.7	23.2	24.0	24.2
	8H	22.6	23.4	22.9	23.7	23.9	22.9	23.7	23.2	24.0	24.2
	12H	22.6	23.4	22.9	23.6	23.9	22.9	23.7	23.2	23.9	24.2
4H	2H	22.0	22.9	22.3	23.2	23.4	22.3	23.2	22.6	23.4	23.7
	3H	22.6	23.4	22.9	23.6	23.9	22.8	23.6	23.2	23.9	24.2
	4H	22.8	23.5	23.2	23.8	24.1	23.1	23.8	23.4	24.1	24.4
	6H	23.0	23.6	23.4	24.0	24.3	23.3	23.9	23.7	24.2	24.6
	8H	23.1	23.6	23.5	24.0	24.4	23.3	23.9	23.7	24.3	24.6
	12H	23.1	23.6	23.5	24.0	24.4	23.3	23.9	23.7	24.2	24.6
8H	4H	22.9	23.5	23.3	23.8	24.2	23.1	23.7	23.5	24.1	24.4
	6H	23.2	23.6	23.6	24.0	24.4	23.4	23.9	23.8	24.3	24.7
	8H	23.2	23.7	23.7	24.1	24.5	23.5	23.9	23.9	24.3	24.8
	12H	23.3	23.6	23.7	24.1	24.5	23.5	23.9	24.0	24.3	24.8
12H	4H	22.9	23.4	23.3	23.8	24.2	23.1	23.6	23.5	24.0	24.4
	6H	23.1	23.6	23.6	24.0	24.4	23.4	23.8	23.8	24.2	24.7
	8H	23.2	23.6	23.7	24.0	24.5	23.5	23.8	23.9	24.3	24.8
Variations with the observer position at spacings:											
S = 1.0H	+ 1.1 / - 1.5					+ 1.1 / - 1.5					
1.5H	+ 1.8 / - 1.2					+ 1.9 / - 1.1					
2.0H	+ 1.8 / - 1.1					+ 1.9 / - 1.1					

CIE Pub.117, 369.9 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -3.5)  
Area: 0.001256 m2

C Range: 0 - 360DEG  
C Interval: 2.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:will  
Test Date:11 September 2023

g Range: 0 - 90DEG  
g Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.416  
Humidity:65.0%  
Test Distance:8.989m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

Test:U:228.69V I:0.0313A P:6.0577W PF:0.8461 Freq:49.99Hz Lamp Flux:369.914x1 lm		
NAME: 5RS230-2	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

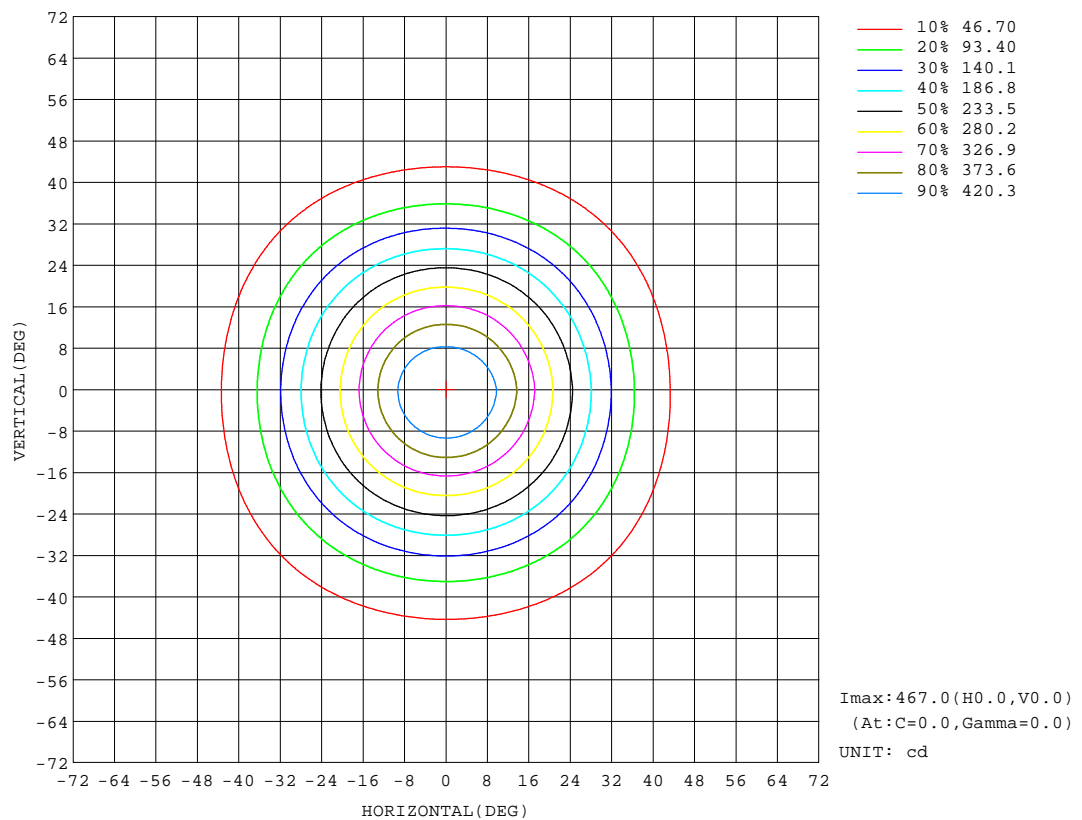
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	81	73	69	80	73	69	79	73	69	64
0.80	89	82	77	88	82	77	87	81	77	73
1.00	94	88	83	94	87	83	92	87	83	78
1.25	99	93	89	98	92	88	96	91	88	83
1.50	102	97	93	101	96	92	99	94	91	86
2.00	106	101	97	104	100	96	102	98	95	89
2.50	108	104	100	106	102	99	103	100	97	91
3.00	110	106	103	108	104	102	105	102	99	93
4.00	112	109	106	110	107	105	107	104	102	95
5.00	114	111	109	112	109	107	108	106	104	96
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG  
C Interval: 2.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:will  
Test Date:11 September 2023

g Range: 0 - 90DEG  
g Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.416  
Humidity:65.0%  
Test Distance:8.989m [K=1.0000]  
Remarks:

## ISOCANDELA DIAGRAM

Test:U:228.69V I:0.0313A P:6.0577W PF:0.8461 Freq:49.99Hz Lamp Flux:369.914x1 lm		
NAME: 5RS230-2	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 2.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: will  
Test Date: 11 September 2023

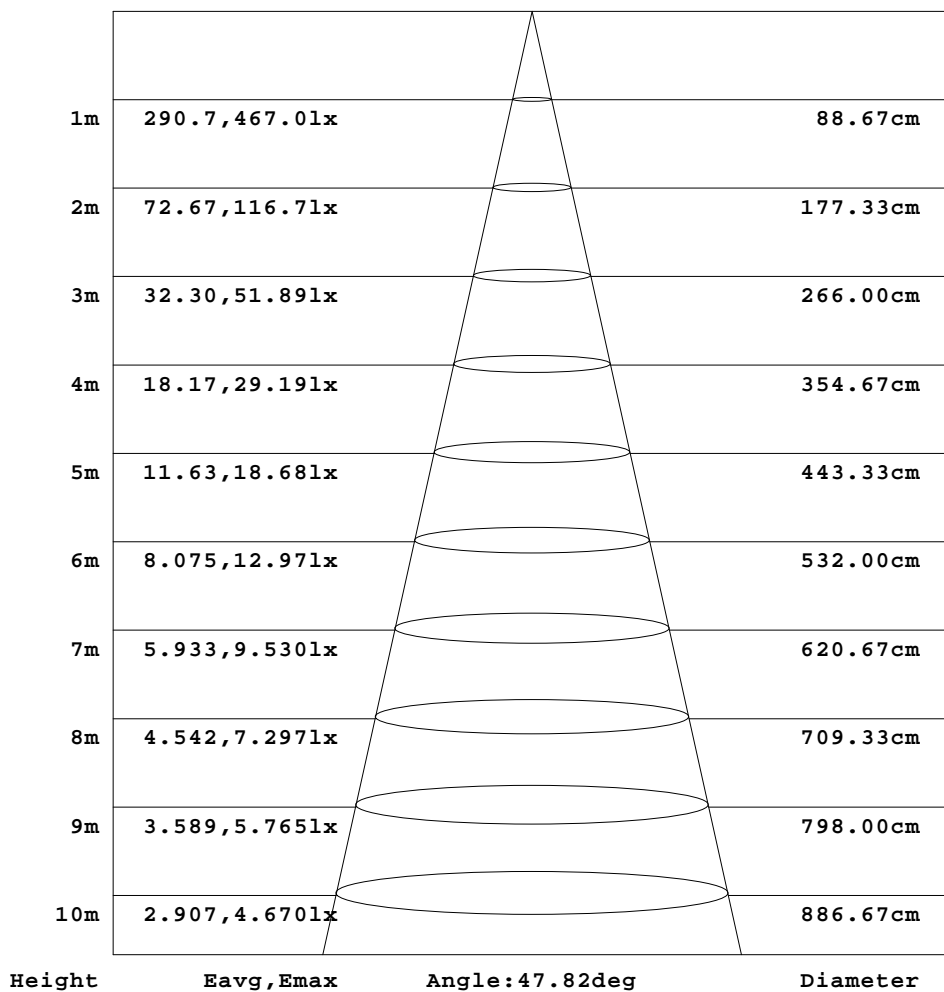
Range: 0 - 90DEG  
Interval: 0.5DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.416  
Humidity: 65.0%  
Test Distance: 8.989m [K=1.0000]  
Remarks:



### AAI Figure

Test:U:228.69V I:0.0313A P:6.0577W PF:0.8461 Freq:49.99Hz Lamp Flux:369.914x1 lm		
NAME: 5RS230-2	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

Flux out:181.0 lm



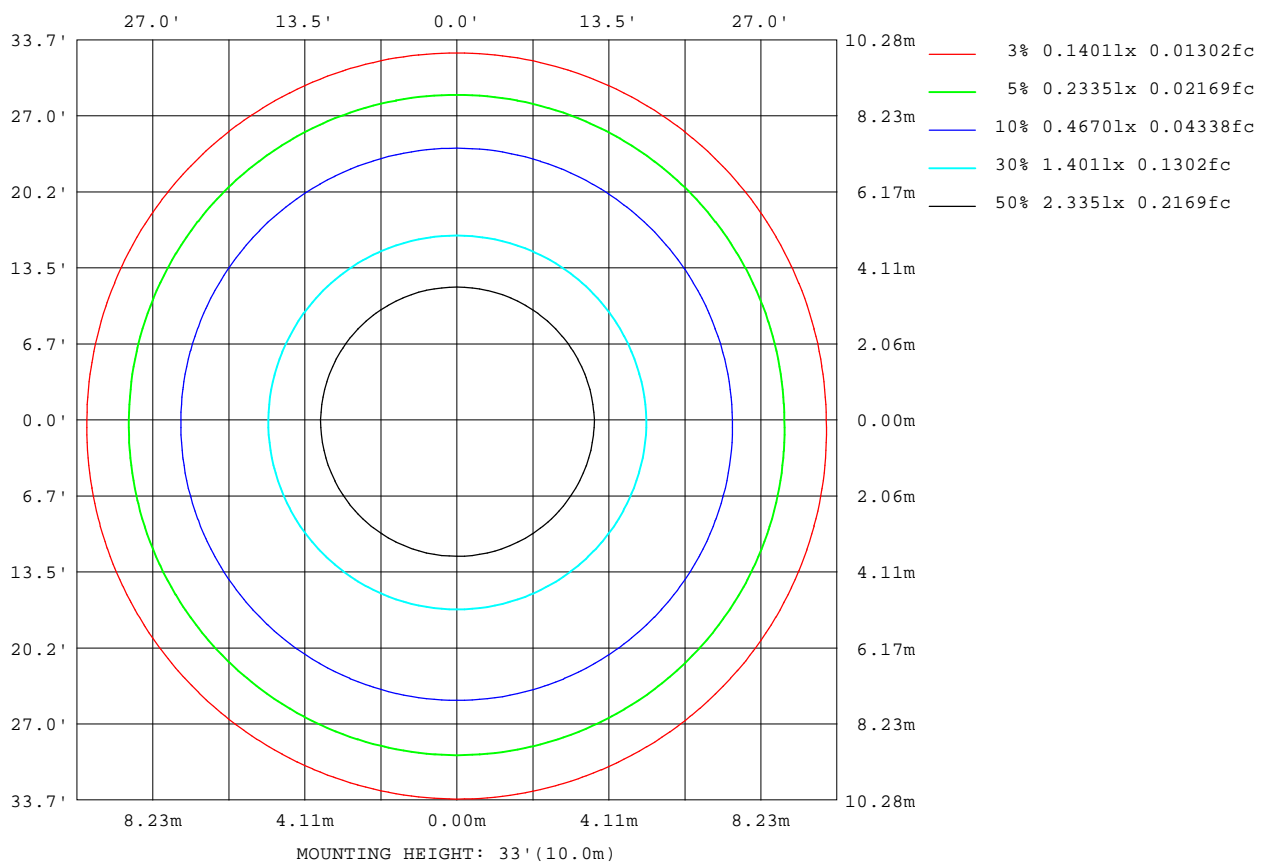
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 2.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:will  
Test Date:11 September 2023

g Range: 0 - 90DEG  
g Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.416  
Humidity:65.0%  
Test Distance:8.989m [K=1.0000]  
Remarks:

## ISOLUX DIAGRAM

Test:U:228.69V I:0.0313A P:6.0577W PF:0.8461 Freq:49.99Hz Lamp Flux:369.914x1 lm		
NAME: 5RS230-2	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 2.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: will  
 Test Date: 11 September 2023

g Range: 0 - 90DEG  
 g Interval: 0.5DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.416  
 Humidity: 65.0%  
 Test Distance: 8.989m [K=1.0000]  
 Remarks:

### LED Avg.L Report

Test:U:228.69V I:0.0313A P:6.0577W PF:0.8461 Freq:49.99Hz Lamp Flux:369.914x1 lm		
NAME: 5RS230-2	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

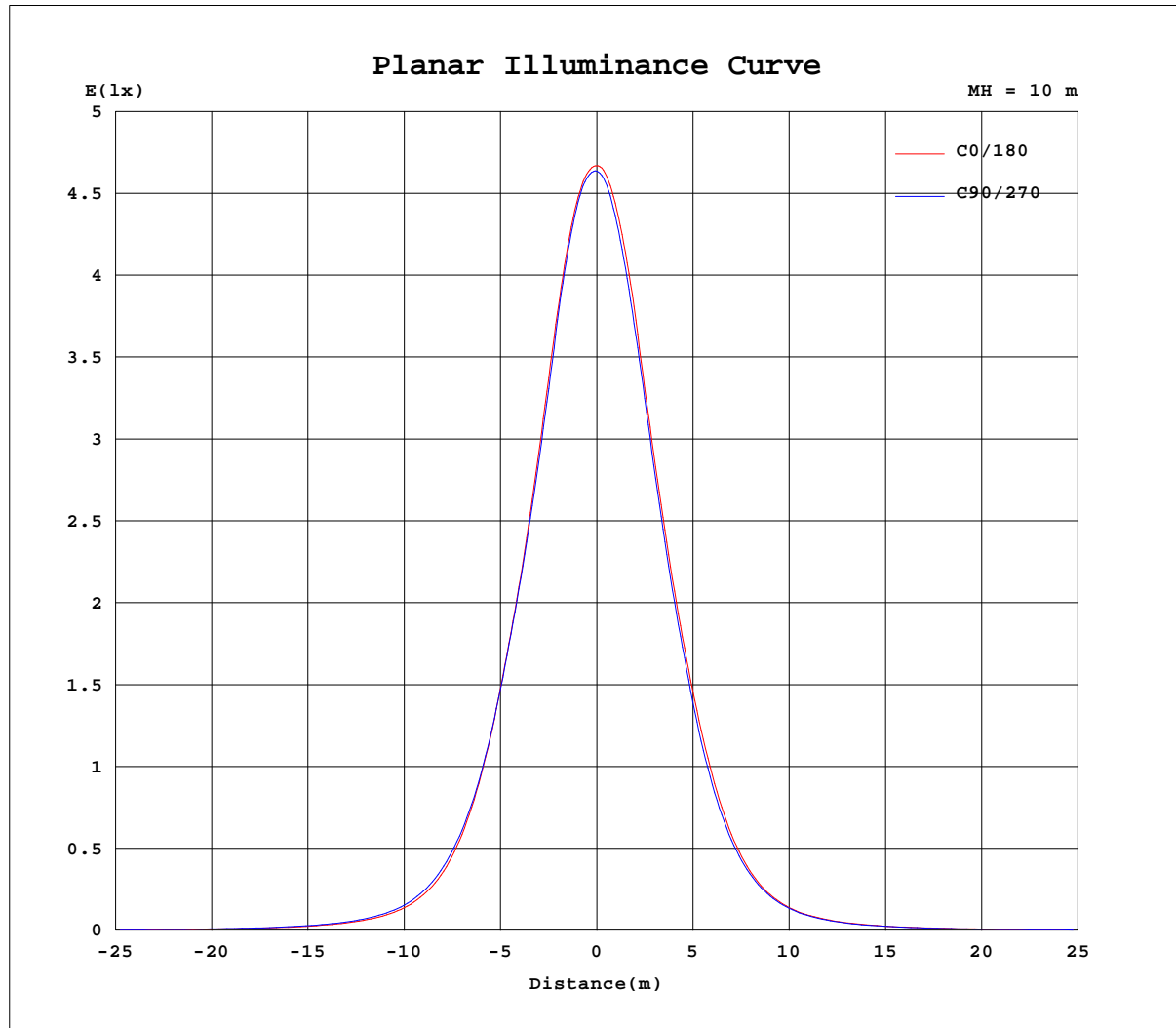
AvgL	cd/m2
L_0~180(65)av	17227
L_0~180(75)av	13138
L_0~180(85)av	6788
L_90~270(65)av	17529
L_90~270(75)av	13148
L_90~270(85)av	7443
L_45(65)av	17414
L_45(75)av	13108
L_45(85)av	7135

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 2.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:will  
Test Date:11 September 2023

g Range: 0 - 90DEG  
g Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.416  
Humidity:65.0%  
Test Distance:8.989m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 2.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: will  
Test Date: 11 September 2023

g Range: 0 - 90DEG  
g Interval: 0.5DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.416  
Humidity: 65.0%  
Test Distance: 8.989m [K=1.0000]  
Remarks:

















