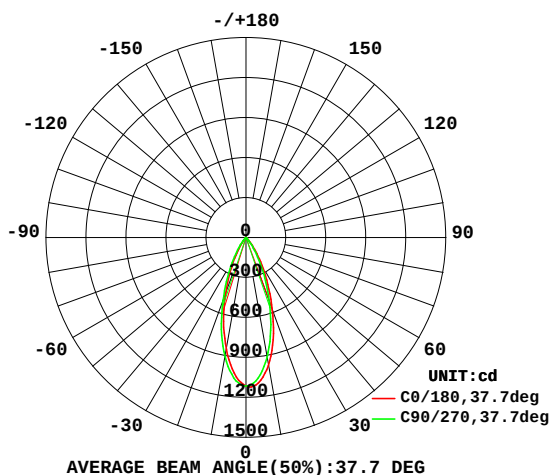


LUMINAIRE PHOTOMETRIC TEST REPORT

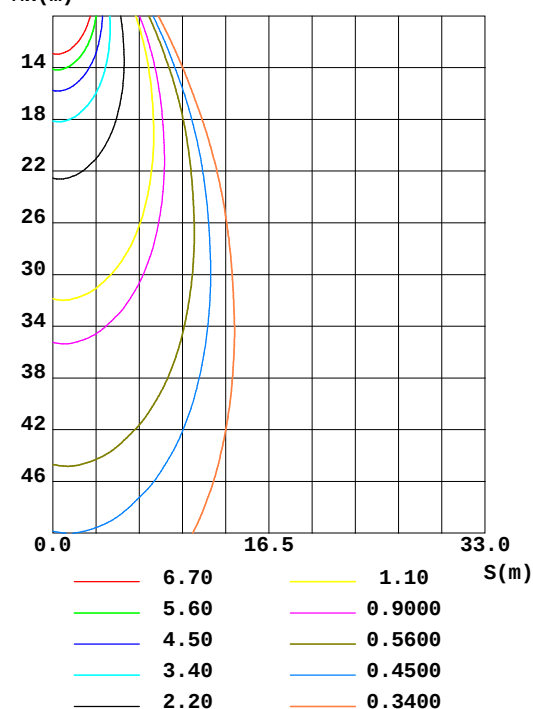
Test:U:230.4V I:0.0479A P:9.636W PF:0.8740 Lamp Flux:532.114x1 lm		
NAME: 5RS060-1-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:001
MFR.: Suzhou Radiant Lighting Technology Co., Ltd	SUR.:0.00138474	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 55.22 lm/W			
MODEL	5RS060-1-3000K	I _{max} (cd)	1123	S/MH(C0/180)	0.67
NOMINAL POWER(W)	10	LOR(%)	100.0	S/MH(C90/270)	0.62
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	532.11	h UP, DN(C0-180)	0.0, 51.2
NOMINAL FLUX(lm)	532.114	CIE CLASS	DIRECT	h UP, DN(C180-360)	0.0, 48.8
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	230.4	h down(%)	100.0	CIBSE SHR MAX	0.65

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT: lx)



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: 01
 Test Date: 2017-10-07

Range: 0 - 90DEG
 Interval: 1.0DEG
 Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.279
 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
10	975.0	963.0	913.4	865.9	850.7	865.8	908.5	959.8	0- 10	96.29	96.29	18.1, 18.1
20	582.0	573.0	516.2	462.8	446.9	463.5	507.6	562.8	10- 20	197.6	293.9	55.2, 55.2
30	241.3	230.0	196.2	165.0	153.6	161.0	190.5	226.2	20- 30	153.1	447.0	84, 84
40	59.91	55.84	44.51	33.84	32.55	35.41	44.69	55.66	30- 40	65.31	512.3	96.3, 96.3
50	8.267	7.562	6.174	5.220	5.128	5.556	6.679	8.273	40- 50	14.99	527.3	99.1, 99.1
60	2.458	2.253	1.965	1.728	1.692	1.831	2.123	2.462	50- 60	3.327	530.7	99.7, 99.7
70	0.8188	0.6848	0.5560	0.4458	0.4052	0.4984	0.6474	0.7848	60- 70	1.209	531.9	100, 100
80	0.0554	0.0494	0.0372	0.0248	0	0	0.0061	0.0062	70- 80	0.2321	532.1	100, 100
90	0	0	0	0	0	0	0	0	80- 90	0.0097	532.1	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		

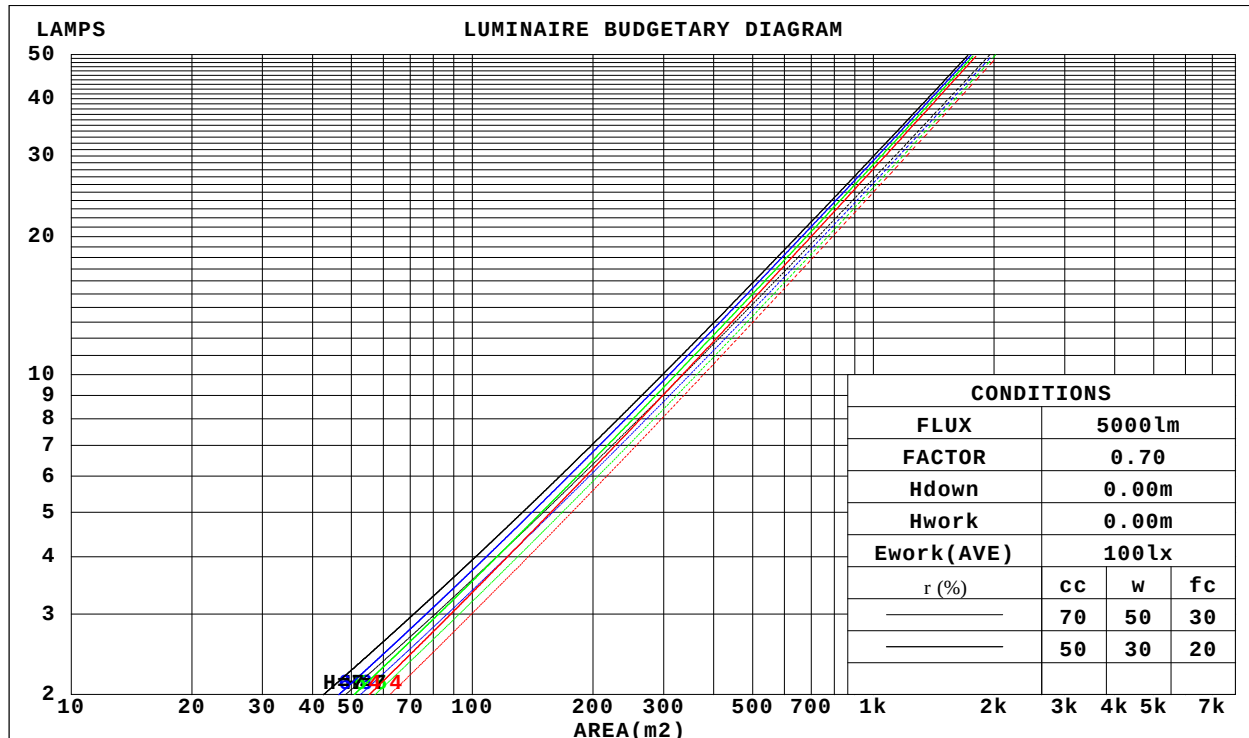
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: 01
 Test Date: 2017-10-07

g Range: 0 - 90DEG
 g Interval: 1.0DEG
 Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.279
 Humidity: 65.0%
 Test Distance: 8.989m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.4V I:0.0479A P:9.636W PF:0.8740 Lamp Flux:532.114x1 lm		
NAME: 5RS060-1-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:001
MFR.: Suzhou Radiant Lighting Technology Co., Ltd	SUR.:0.00138474	PROTECTION ANGLE:

r _{cc}	80%			70%			50%			30%			10%			0
r _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r _{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	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.12	1.09	1.07	1.10	1.08	1.06	1.06	1.04	1.02	1.02	1.01	.99	.98	.97	.97	.95
2.0	1.05	1.01	.98	1.03	1.00	.97	1.00	.98	.95	.97	.95	.93	.95	.93	.91	.90
3.0	.99	.95	.91	.98	.94	.90	.95	.92	.89	.93	.90	.88	.91	.88	.86	.85
4.0	.94	.89	.85	.93	.88	.85	.91	.87	.84	.89	.85	.83	.87	.84	.82	.80
5.0	.89	.84	.80	.88	.83	.80	.86	.82	.79	.85	.81	.78	.83	.80	.78	.76
6.0	.84	.79	.75	.84	.79	.75	.82	.78	.75	.81	.77	.74	.80	.76	.74	.72
7.0	.80	.75	.71	.80	.75	.71	.79	.74	.71	.77	.73	.71	.76	.73	.70	.69
8.0	.77	.71	.68	.76	.71	.68	.75	.71	.67	.74	.70	.67	.73	.70	.67	.66
9.0	.73	.68	.65	.73	.68	.65	.72	.67	.64	.71	.67	.64	.70	.67	.64	.63
10.0	.70	.65	.62	.70	.65	.62	.69	.65	.61	.68	.64	.61	.68	.64	.61	.60



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:01
Test Date:2017-10-07

g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.279
Humidity:65.0%
Test Distance:8.989m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:230.4V I:0.0479A P:9.636W PF:0.8740 Lamp Flux:532.114x1 lm														
NAME: 5RS060-1-3000K							TYPE:				WEIGHT:			
SPEC.:							DIM.:				SERIAL No.:001			
MFR.: Suzhou Radiant Lighting Technology Co.,Ltd							SUR.:0.00138474				PROTECTION ANGLE:			

r _{cc}	80%			70%			50%			30%			10%			0
r _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r _{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Wall Exitance Coefficients(WEC)															
0.0																
1.0	.160	.091	.029	.154	.088	.028	.141	.081	.026	.130	.075	.024	.119	.069	.022	
2.0	.152	.083	.026	.146	.081	.025	.136	.076	.023	.126	.071	.022	.117	.066	.021	
3.0	.144	.077	.023	.139	.074	.022	.130	.071	.021	.122	.067	.021	.115	.063	.020	
4.0	.136	.071	.021	.132	.069	.020	.125	.066	.020	.118	.063	.019	.111	.060	.018	
5.0	.130	.066	.019	.126	.065	.019	.120	.062	.018	.114	.060	.018	.108	.058	.017	
6.0	.124	.062	.018	.121	.061	.018	.115	.059	.017	.110	.057	.017	.105	.055	.016	
7.0	.118	.058	.017	.116	.058	.016	.110	.056	.016	.106	.054	.016	.101	.053	.015	
8.0	.113	.055	.016	.111	.055	.015	.106	.053	.015	.102	.052	.015	.098	.050	.015	
9.0	.108	.052	.015	.106	.052	.015	.102	.051	.014	.099	.049	.014	.095	.048	.014	
10.0	.104	.050	.014	.102	.049	.014	.099	.048	.014	.095	.047	.013	.092	.046	.013	

r _{cc}	80%			70%			50%			30%			10%			0
r _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r _{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	.170	.157	.146	.145	.135	.126	.099	.093	.087	.057	.054	.051	.018	.017	.016	
2.0	.154	.133	.115	.132	.114	.099	.090	.079	.069	.052	.046	.041	.017	.015	.013	
3.0	.140	.113	.092	.120	.098	.080	.082	.068	.056	.048	.040	.033	.015	.013	.011	
4.0	.129	.098	.075	.111	.085	.065	.076	.059	.046	.044	.035	.027	.014	.011	.009	
5.0	.120	.087	.062	.103	.075	.054	.071	.052	.038	.041	.031	.023	.013	.010	.007	
6.0	.112	.077	.052	.096	.067	.045	.066	.047	.032	.038	.027	.019	.012	.009	.006	
7.0	.105	.069	.044	.090	.060	.039	.062	.042	.027	.036	.025	.016	.012	.008	.005	
8.0	.099	.063	.038	.085	.054	.033	.059	.038	.023	.034	.023	.014	.011	.007	.005	
9.0	.094	.057	.033	.081	.050	.029	.056	.035	.020	.033	.021	.012	.011	.007	.004	
10.0	.089	.053	.029	.077	.046	.025	.053	.032	.018	.031	.019	.011	.010	.006	.004	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:01
 Test Date:2017-10-07

g Range: 0 - 90DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.279
 Humidity:65.0%
 Test Distance:8.989m [K=1.0000]
 Remarks:

Uncorrected UGR Table

Test:U:230.4V I:0.0479A P:9.636W PF:0.8740 Lamp Flux:532.114x1 lm												
NAME: 5RS060-1-3000K					TYPE:			WEIGHT:				
SPEC.:					DIM.:			SERIAL No.:001				
MFR.: Suzhou Radiant Lighting Technology Co., Ltd					SUR.:0.00138474			PROTECTION 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	2H	19.0	19.8	19.2	20.0	20.1	17.9	18.7	18.1	18.8	19.0	
	3H	18.8	19.6	19.1	19.8	20.0	17.7	18.5	18.0	18.7	18.9	
	4H	18.8	19.5	19.0	19.7	19.9	17.6	18.4	17.9	18.6	18.8	
	6H	18.7	19.4	19.0	19.6	19.8	17.5	18.2	17.8	18.5	18.7	
	8H	18.6	19.3	18.9	19.5	19.8	17.5	18.1	17.8	18.4	18.7	
	12H	18.6	19.2	18.9	19.5	19.8	17.5	18.1	17.8	18.3	18.6	
	4H	2H	18.8	19.5	19.0	19.7	19.9	17.6	18.4	17.9	18.6	18.8
		3H	18.6	19.2	18.9	19.5	19.8	17.5	18.1	17.8	18.4	18.6
		4H	18.5	19.1	18.9	19.4	19.7	17.4	17.9	17.7	18.2	18.5
		6H	18.4	18.9	18.8	19.2	19.6	17.3	17.8	17.7	18.1	18.5
		8H	18.4	18.8	18.8	19.2	19.5	17.2	17.7	17.6	18.0	18.4
		12H	18.3	18.7	18.7	19.1	19.5	17.2	17.6	17.6	18.0	18.4
8H	4H	18.4	18.8	18.8	19.2	19.5	17.2	17.7	17.6	18.0	18.4	
	6H	18.3	18.6	18.7	19.0	19.4	17.1	17.5	17.6	17.9	18.3	
	8H	18.2	18.5	18.6	19.0	19.4	17.1	17.4	17.5	17.8	18.3	
	12H	18.1	18.4	18.6	18.9	19.3	17.0	17.3	17.5	17.7	18.2	
12H	4H	18.3	18.7	18.7	19.1	19.5	17.2	17.6	17.6	18.0	18.4	
	6H	18.2	18.5	18.6	19.0	19.4	17.1	17.4	17.5	17.8	18.3	
	8H	18.1	18.4	18.6	18.9	19.3	17.0	17.3	17.5	17.7	18.2	
Variations with the observer position at spacings:												
S = 1.0H	+ 3.4 / -11.4					+ 3.0 / -11.4						
1.5H	+ 5.8 / - 9.7					+ 5.3 / - 9.0						
2.0H	+ 6.6 / - 5.9					+ 5.4 / - 5.3						

CIE Pub.117 Corrected 532.1 lm Total Lamp Luminous Flux.(8log(F/F0) = -2.2)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:01
Test Date:2017-10-07

g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.279
Humidity:65.0%
Test Distance:8.989m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:230.4V I:0.0479A P:9.636W PF:0.8740 Lamp Flux:532.114x1 lm		
NAME: 5RS060-1-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:001
MFR.: Suzhou Radiant Lighting Technology Co., Ltd	SUR.:0.00138474	PROTECTION ANGLE:

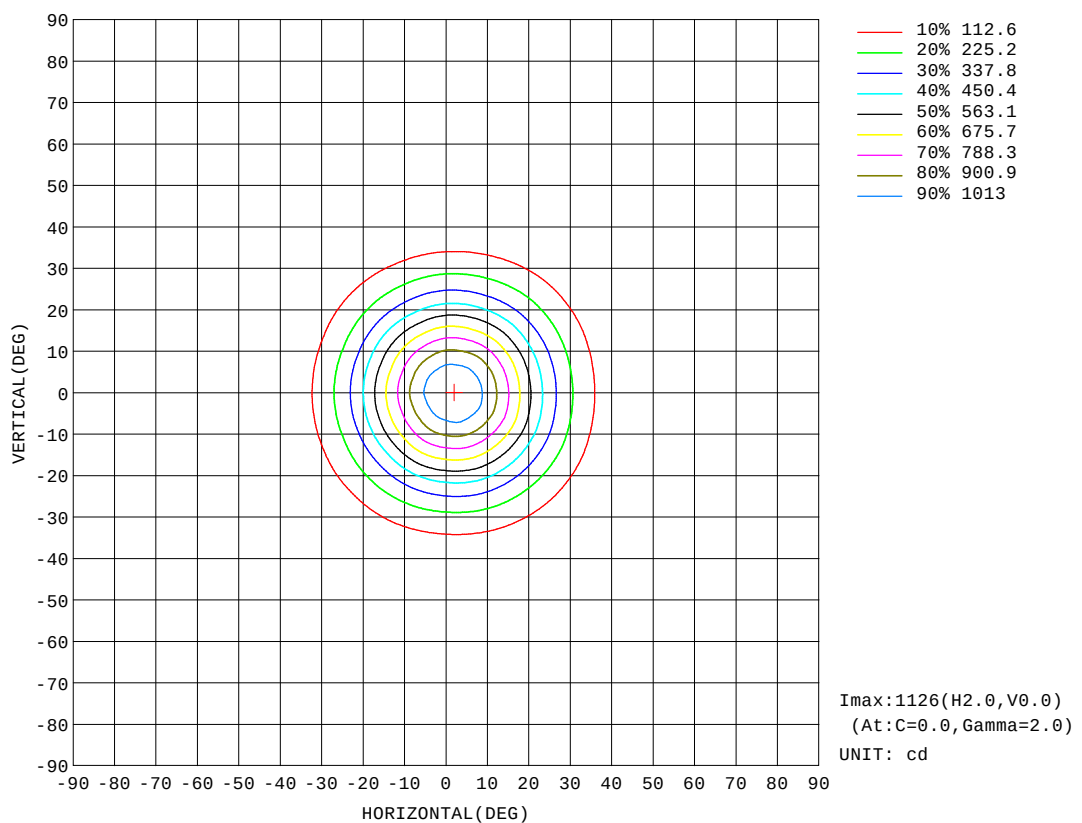
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	89	83	80	89	83	80	88	83	79	76
0.80	96	91	87	96	91	87	95	90	87	83
1.00	101	95	92	100	95	92	98	95	91	87
1.25	104	99	96	103	99	96	101	98	95	91
1.50	107	102	99	106	102	99	104	100	98	93
2.00	109	105	102	108	104	102	105	102	100	95
2.50	111	107	104	109	106	104	106	104	102	96
3.00	112	109	107	111	108	105	107	105	103	97
4.00	114	112	110	112	110	108	109	107	105	98
5.00	115	113	112	113	111	110	109	108	107	99
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: 25.3DEG
Operators: 01
Test Date: 2017-10-07

Range: 0 - 90DEG
Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.279
Humidity: 65.0%
Test Distance: 8.989m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:230.4V I:0.0479A P:9.636W PF:0.8740 Lamp Flux:532.114x1 lm		
NAME: 5RS060-1-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:001
MFR.: Suzhou Radiant Lighting Technology Co.,Ltd	SUR.:0.00138474	PROTECTION ANGLE:



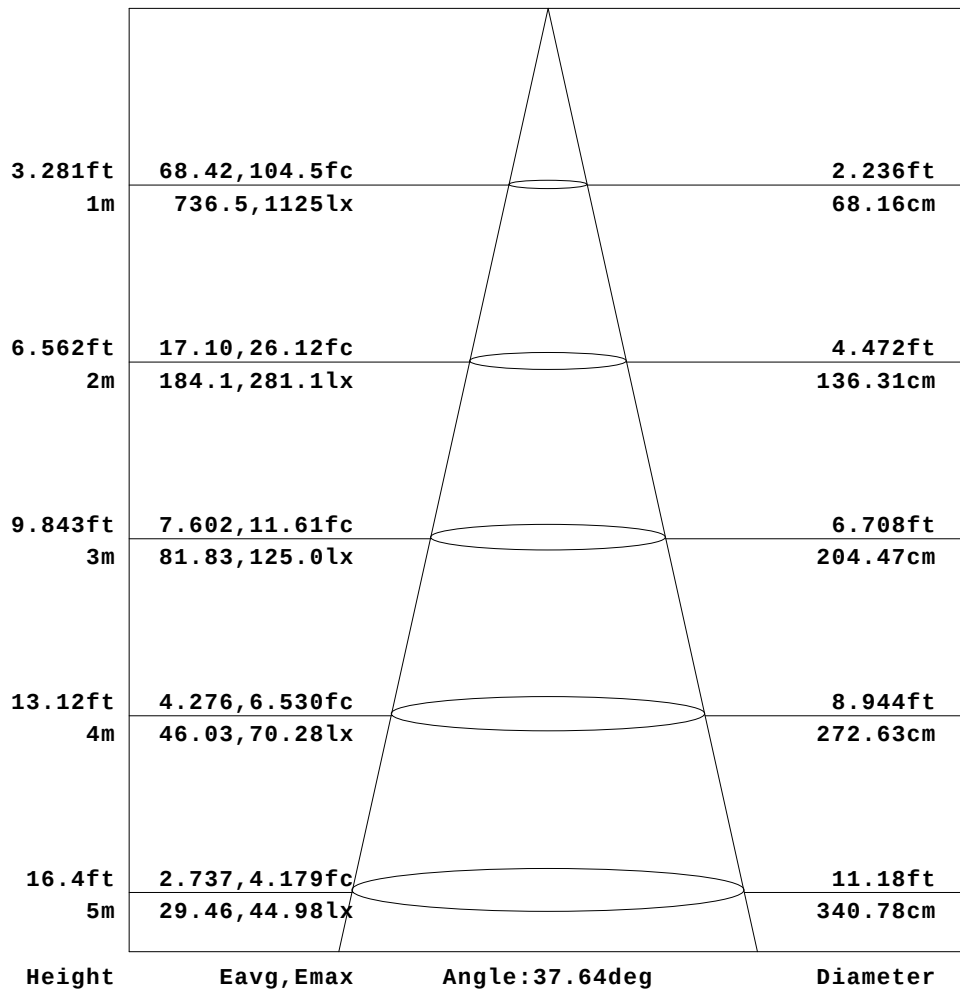
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:01
Test Date:2017-10-07

Range: 0 - 90DEG
Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.279
Humidity:65.0%
Test Distance:8.989m [K=1.0000]
Remarks:

AAI Figure

Test:U:230.4V I:0.0479A P:9.636W PF:0.8740 Lamp Flux:532.114x1 lm		
NAME: 5RS060-1-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:001
MFR.: Suzhou Radiant Lighting Technology Co., Ltd	SUR.:0.00138474	PROTECTION ANGLE:

Flux out:274.3 lm



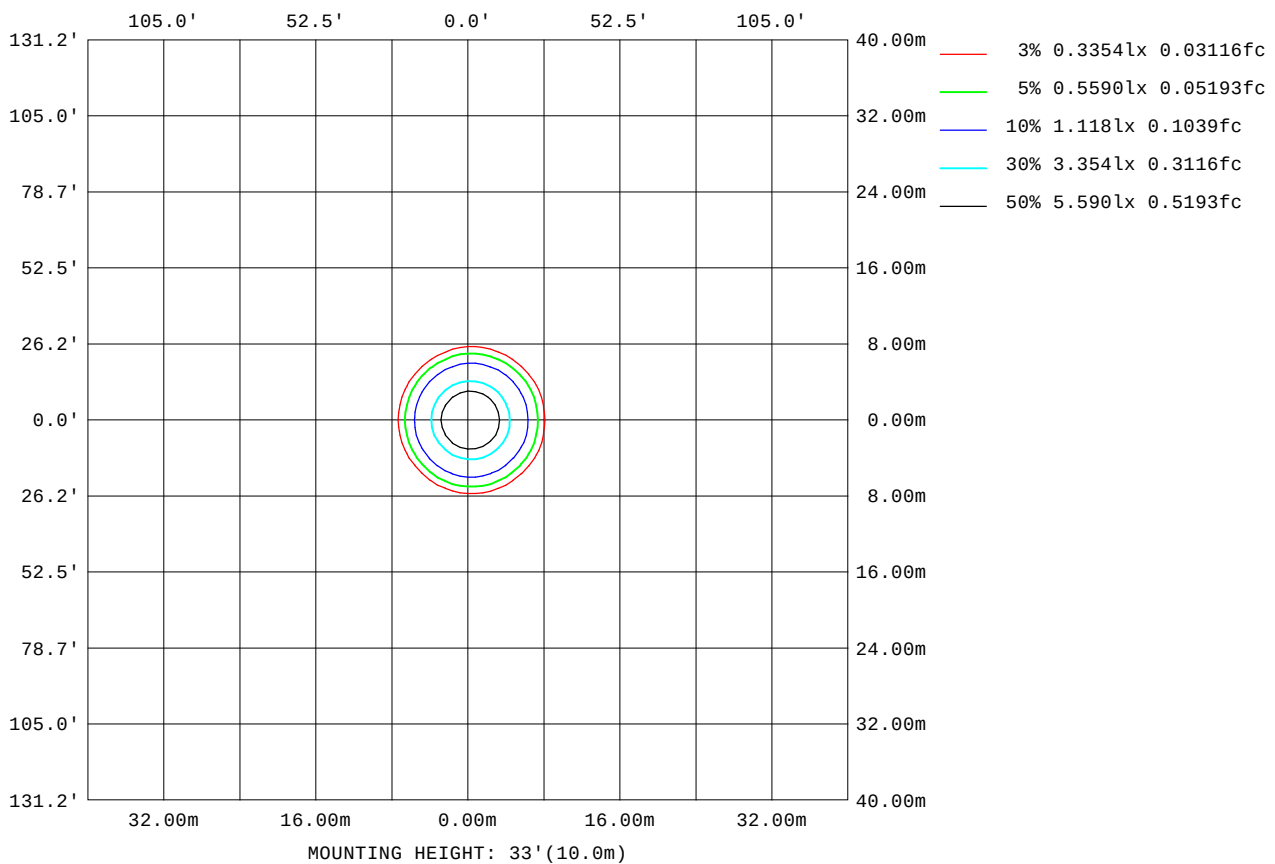
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 01
Test Date: 2017-10-07

g Range: 0 - 90DEG
Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.279
Humidity: 65.0%
Test Distance: 8.989m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

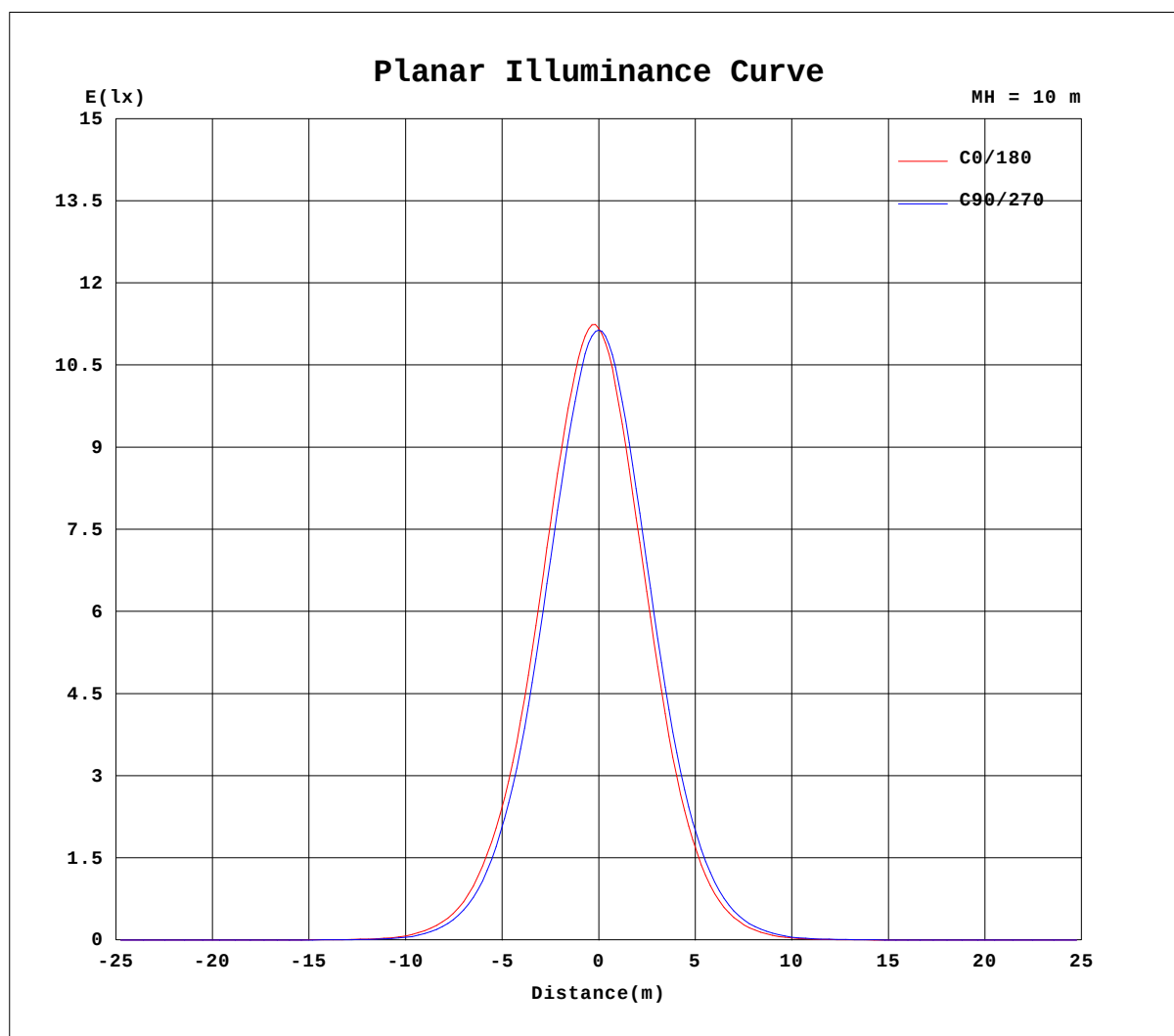
Test:U:230.4V I:0.0479A P:9.636W PF:0.8740 Lamp Flux:532.114x1 lm		
NAME: 5RS060-1-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:001
MFR.: Suzhou Radiant Lighting Technology Co.,Ltd	SUR.:0.00138474	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:01
Test Date:2017-10-07

g g Range: 0 - 90DEG
Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.279
Humidity:65.0%
Test Distance:8.989m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 01
Test Date: 2017-10-07

Range: 0 - 90DEG
Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.279
Humidity: 65.0%
Test Distance: 8.989m [K=1.0000]
Remarks:

