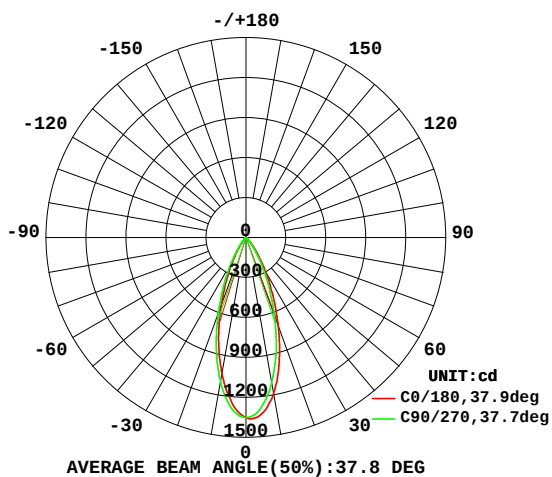


LUMINAIRE PHOTOMETRIC TEST REPORT

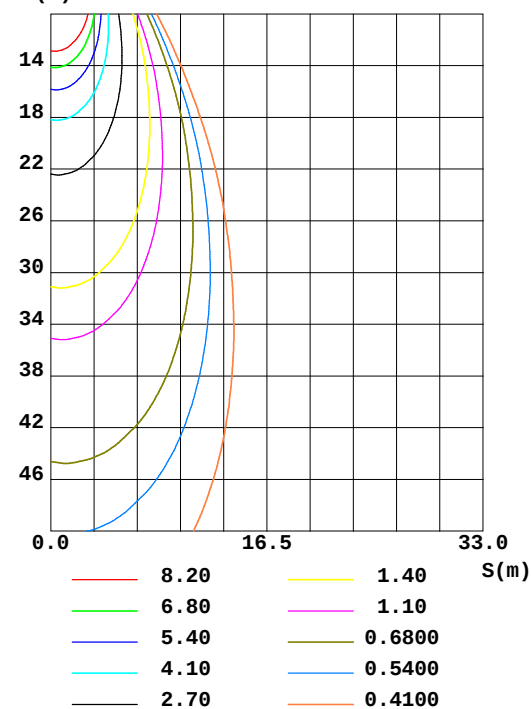
Test:U:230.4V I:0.0478A P:9.634W PF:0.8742 Lamp Flux:648.113x1 lm		
NAME: 5RS060-1-6000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:001
MFR.: Suzhou Radiant Lighting Technology Co.,Ltd	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 67.27 lm/W			
MODEL	5RS060-1-6000K	I _{max} (cd)	1361	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)	648.11	h UP, DN(C0-180)	0.0, 51.2
NOMINAL FLUX(lm)	648.113	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: MEDIUM
Temperature: 25.3DEG
Operators: 01
Test Date: 2017-10-07

g Range: 0 - 90DEG
Interval: 0.5DEG
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
5	1332	1322	1286	1251	1241	1249	1283	1317	0- 5	31.53	31.53	4.86, 4.86
10	1192	1177	1109	1054	1039	1054	1100	1166	5- 10	85.48	117.0	18.1, 18.1
15	967.0	953.6	881.0	811.9	797.5	814.8	862.8	940.2	10- 15	117.5	234.5	36.2, 36.2
20	711.9	701.7	629.5	561.2	545.7	564.1	612.8	683.4	15- 20	123.0	357.5	55.2, 55.2
25	478.6	469.7	409.9	355.0	339.2	353.3	395.0	450.1	20- 25	106.7	464.2	71.6, 71.6
30	294.4	286.1	241.4	198.2	185.5	197.0	227.4	277.0	25- 30	80.08	544.3	84, 84
35	155.5	149.1	121.7	97.06	92.38	98.32	115.4	146.6	30- 35	51.32	595.6	91.9, 91.9
40	73.57	68.09	53.88	41.68	40.09	43.27	53.30	68.86	35- 40	28.27	623.9	96.3, 96.3
45	28.13	24.25	18.61	15.14	14.69	16.14	19.80	26.43	40- 45	13.09	637.0	98.3, 98.3
50	10.26	9.351	7.624	6.463	6.295	6.800	8.182	10.11	45- 50	5.249	642.2	99.1, 99.1
55	5.105	4.678	4.127	3.667	3.570	3.802	4.417	5.076	50- 55	2.558	644.8	99.5, 99.5
60	3.064	2.796	2.422	2.140	2.069	2.244	2.610	3.040	55- 60	1.546	646.3	99.7, 99.7
65	1.813	1.606	1.348	1.188	1.152	1.252	1.494	1.767	60- 65	0.9494	647.3	99.9, 99.9
70	1.011	0.8514	0.6979	0.5504	0.5099	0.6456	0.8318	0.9756	65- 70	0.5500	647.8	100, 100
75	0.3885	0.2841	0.1547	0.0804	0.0924	0.0862	0.2277	0.3574	70- 75	0.2439	648.1	100, 100
80	0.0617	0.0192	0.0495	0.0309	0	0	0.0370	0.0369	75- 80	0.0497	648.1	100, 100
85	0.0246	0.0247	0.0185	0.0001	0	0	0	0	80- 85	0.0099	648.1	100, 100
90	0.0062	0	0	0	0	0	0	0.0062	85- 90	0.0033	648.1	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		

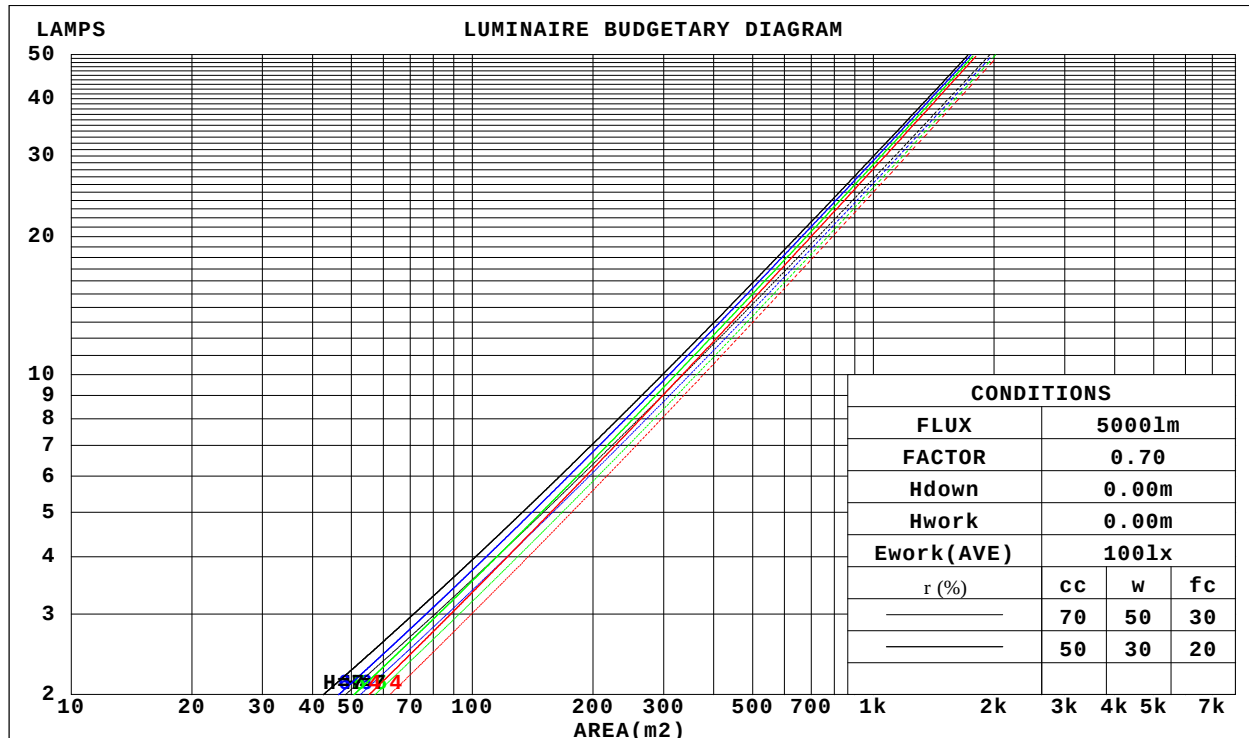
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: MEDIUM
 Temperature: 25.3DEG
 Operators: 01
 Test Date: 2017-10-07

g Range: 0 - 90DEG
 Interval: 0.5DEG
 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:0.0478A P:9.634W PF:0.8742 Lamp Flux:648.113x1 lm		
NAME: 5RS060-1-6000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:001
MFR.: Suzhou Radiant Lighting Technology Co.,Ltd	SUR.:	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	.97	.95	.97	.95	.93	.94	.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	.90	.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	.64	.61	.68	.64	.61	.68	.64	.61	.60	



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

g Range: 0 - 90DEG
 g Interval: 0.5DEG
 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:0.0478A P:9.634W PF:0.8742 Lamp Flux:648.113x1 lm														
NAME: 5RS060-1-6000K							TYPE:				WEIGHT:			
SPEC.:							DIM.:				SERIAL No.:001			
MFR.: Suzhou Radiant Lighting Technology Co.,Ltd							SUR.:				PROTECTION ANGLE:			

r c c	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 f c	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	.075	.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	.061	.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	.111	.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	.109	.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	.083	.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: MEDIUM
 Temperature:25.3DEG
 Operators:01
 Test Date:2017-10-07

g Range: 0 - 90DEG
 g Interval: 0.5DEG
 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:0.0478A P:9.634W PF:0.8742 Lamp Flux:648.113x1 lm											
NAME: 5RS060-1-6000K					TYPE:			WEIGHT:			
SPEC.:					DIM.:			SERIAL No.:001			
MFR.: Suzhou Radiant Lighting Technology Co., Ltd					SUR.:			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	19.7	20.5	19.9	20.7	20.8	18.7	19.5	18.9	19.6	19.8	
	3H	19.5	20.3	19.8	20.5	20.7	18.5	19.3	18.8	19.5	19.7
	4H	19.5	20.2	19.7	20.4	20.6	18.4	19.1	18.7	19.4	19.6
	6H	19.4	20.1	19.7	20.3	20.5	18.3	19.0	18.6	19.2	19.5
	8H	19.3	20.0	19.6	20.2	20.5	18.3	18.9	18.6	19.2	19.4
	12H	19.3	19.9	19.6	20.2	20.4	18.2	18.9	18.6	19.1	19.4
4H	2H	19.5	20.2	19.7	20.4	20.6	18.4	19.1	18.7	19.4	19.6
	3H	19.3	19.9	19.6	20.2	20.5	18.3	18.9	18.6	19.2	19.4
	4H	19.2	19.8	19.6	20.1	20.4	18.2	18.7	18.5	19.0	19.3
	6H	19.1	19.6	19.5	19.9	20.3	18.1	18.6	18.4	18.9	19.2
	8H	19.1	19.5	19.4	19.9	20.2	18.0	18.5	18.4	18.8	19.2
	12H	19.0	19.4	19.4	19.8	20.2	18.0	18.4	18.4	18.8	19.2
8H	4H	19.1	19.5	19.4	19.9	20.2	18.0	18.5	18.4	18.8	19.2
	6H	19.0	19.3	19.4	19.7	20.1	17.9	18.3	18.3	18.7	19.1
	8H	18.9	19.2	19.3	19.7	20.1	17.9	18.2	18.3	18.6	19.1
	12H	18.8	19.1	19.3	19.6	20.0	17.8	18.1	18.3	18.5	19.0
12H	4H	19.0	19.4	19.4	19.8	20.2	18.0	18.4	18.4	18.8	19.2
	6H	18.9	19.2	19.3	19.7	20.1	17.9	18.2	18.3	18.6	19.1
	8H	18.8	19.1	19.3	19.6	20.0	17.8	18.1	18.3	18.5	19.0
Variations with the observer position at spacings:											
S = 1.0H	+ 3.4 / -11.3					+ 2.8 / -11.3					
1.5H	+ 5.8 / - 9.6					+ 5.2 / - 8.9					
2.0H	+ 6.6 / - 5.9					+ 5.3 / - 5.3					

CIE Pub.117 Corrected 648.1 lm Total Lamp Luminous Flux.(8log(F/F0) = -1.5)

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

g Range: 0 - 90DEG
 g Interval: 0.5DEG
 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:0.0478A P:9.634W PF:0.8742 Lamp Flux:648.113x1 lm		
NAME: 5RS060-1-6000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:001
MFR.: Suzhou Radiant Lighting Technology Co.,Ltd	SUR.:	PROTECTION ANGLE:

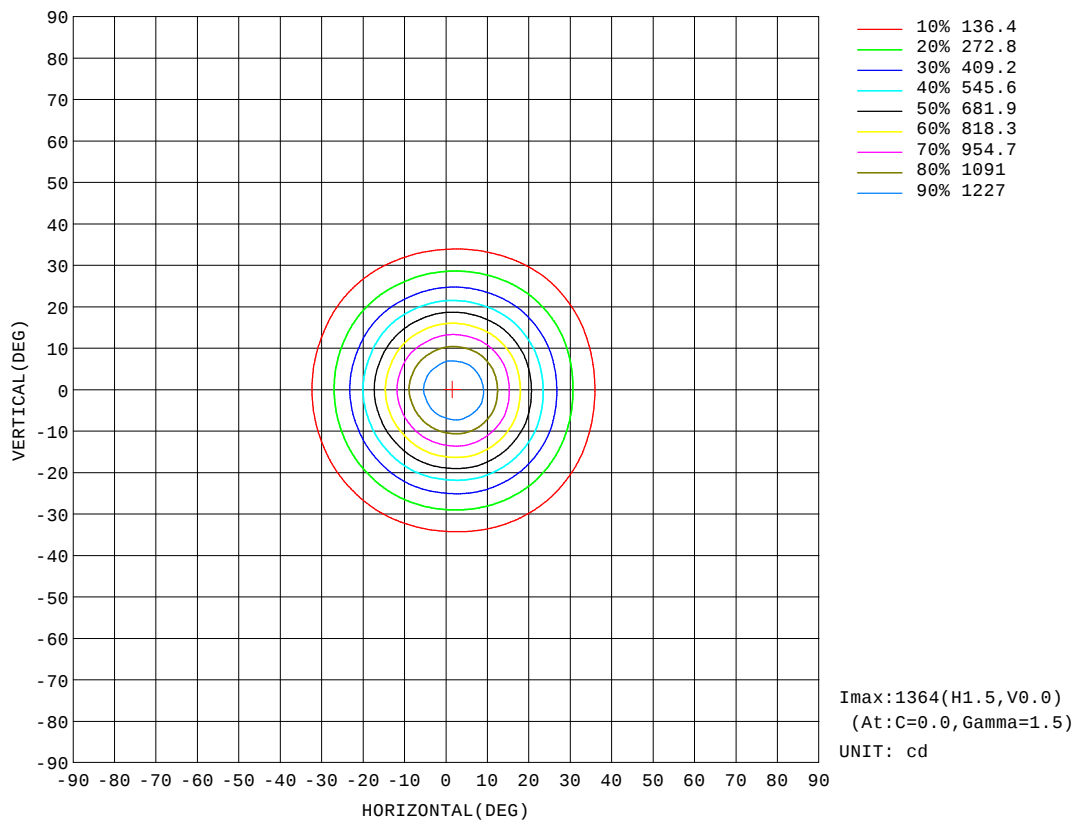
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	89	83	80	89	83	80	88	83	79	76
0.80	96	91	87	96	91	87	95	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: MEDIUM
 Temperature:25.3DEG
 Operators:01
 Test Date:2017-10-07

Range: 0 - 90DEG
 Interval: 0.5DEG
 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:0.0478A P:9.634W PF:0.8742 Lamp Flux:648.113x1 lm		
NAME: 5RS060-1-6000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:001
MFR.: Suzhou Radiant Lighting Technology Co.,Ltd	SUR.:	PROTECTION ANGLE:



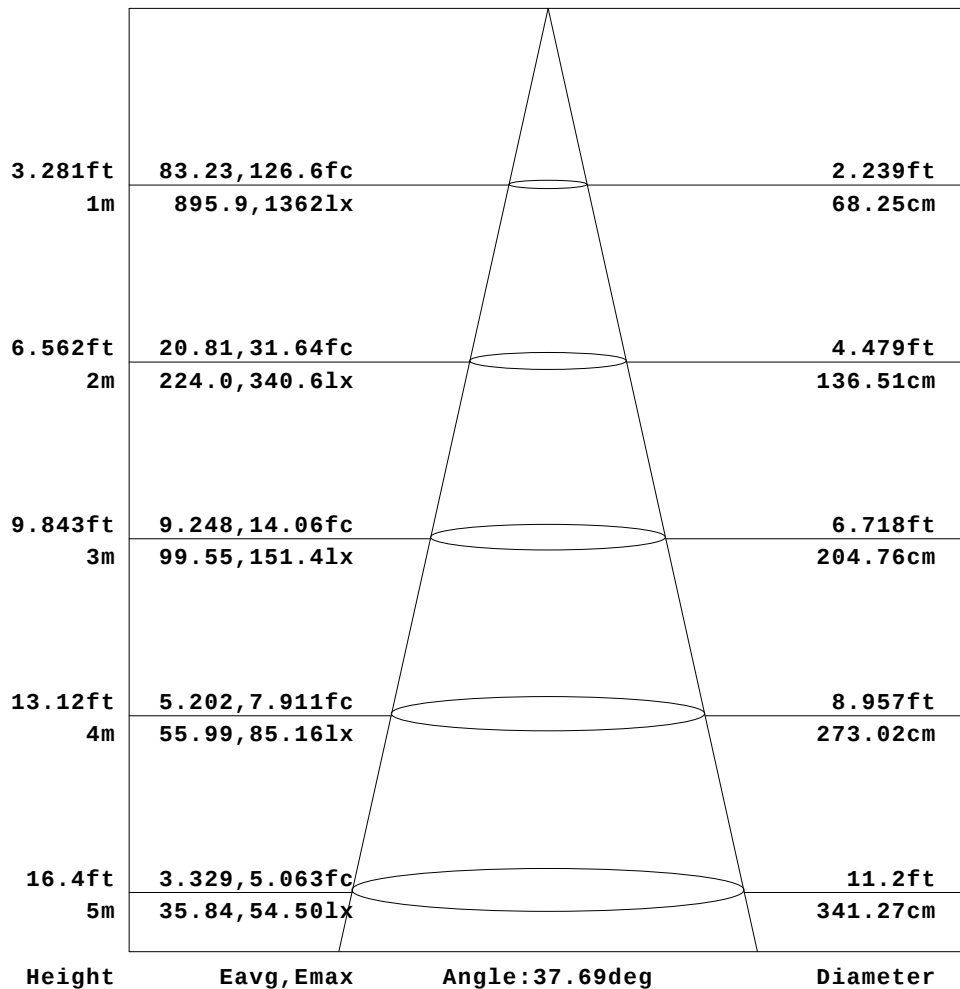
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:01
Test Date:2017-10-07

Range: 0 - 90DEG
Interval: 0.5DEG
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:0.0478A P:9.634W PF:0.8742 Lamp Flux:648.113x1 lm		
NAME: 5RS060-1-6000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:001
MFR.: Suzhou Radiant Lighting Technology Co.,Ltd	SUR.:	PROTECTION ANGLE:

Flux out:333.7 lm



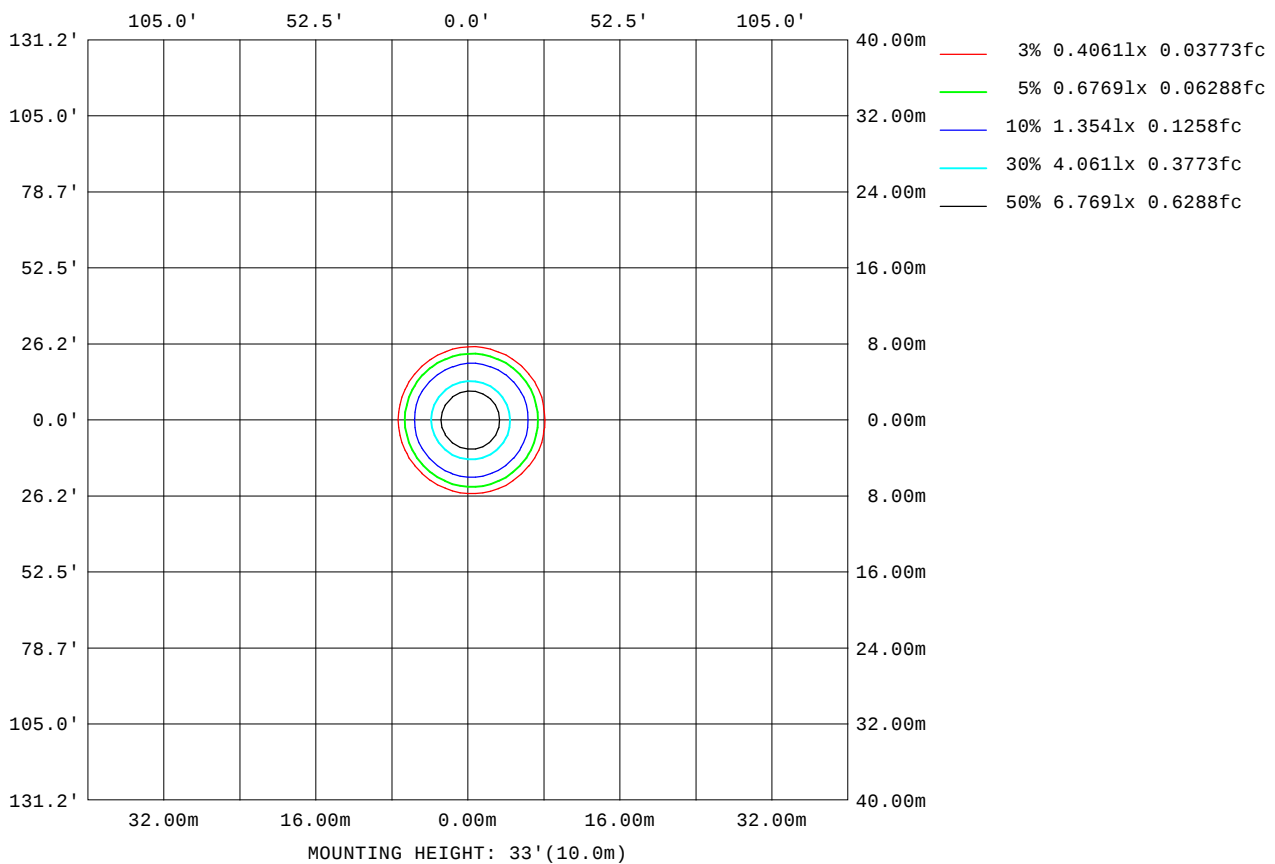
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.279
Humidity: 65.0%
Test Distance: 8.989m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

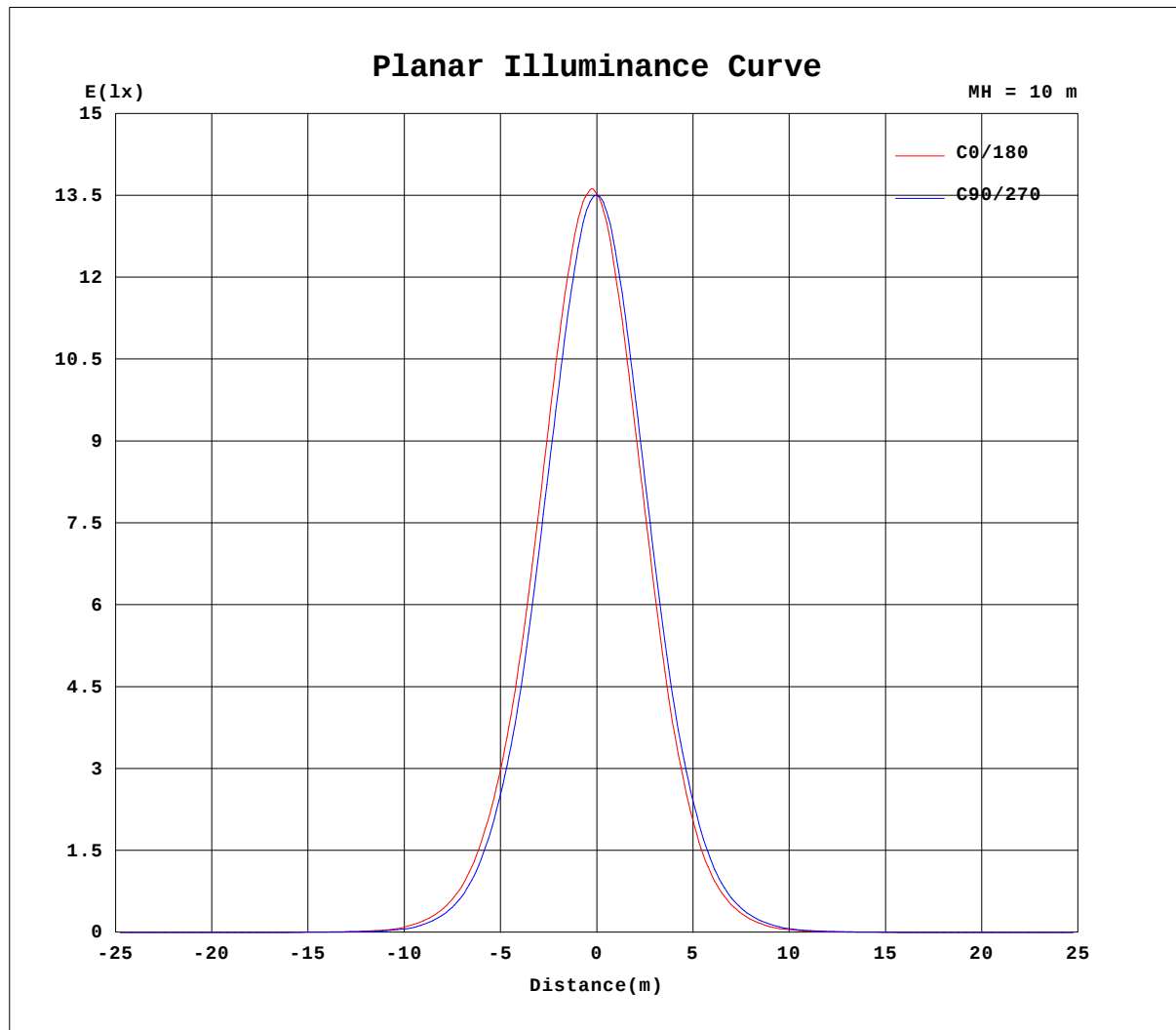
Test:U:230.4V I:0.0478A P:9.634W PF:0.8742 Lamp Flux:648.113x1 lm		
NAME: 5RS060-1-6000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:001
MFR.: Suzhou Radiant Lighting Technology Co.,Ltd	SUR.:	PROTECTION ANGLE:



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

g Range: 0 - 90DEG
g Interval: 0.5DEG
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: MEDIUM
Temperature: 25.3DEG
Operators: 01
Test Date: 2017-10-07

Range: 0 - 90DEG
Interval: 0.5DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.279
Humidity: 65.0%
Test Distance: 8.989m [K=1.0000]
Remarks:

