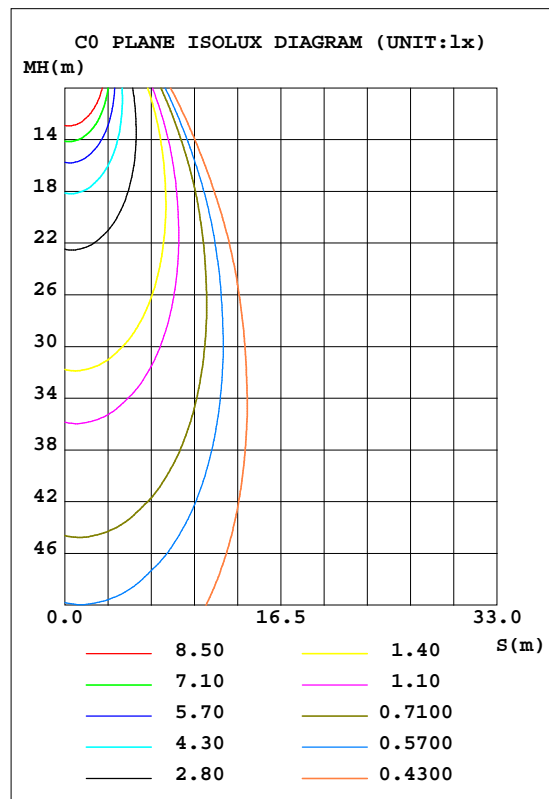
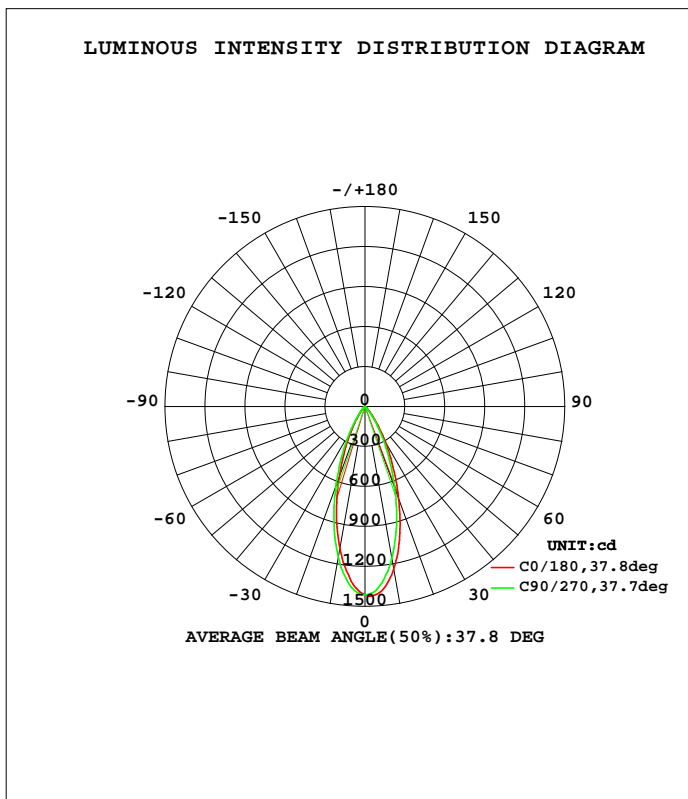


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.4V I:0.0472A P:9.455W PF:0.8688 Lamp Flux:676.422x1 lm		
NAME: 5RS060-1-4000K	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: 71.54 lm/W
MODEL	5RS060-1-4000K	I _{max} (cd)	1424	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)	676.42	h UP, DN(C0-180)	0.0, 51.2	
NOMINAL FLUX(lm)	676.422	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	



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

deg Range: 0 - 90DEG
 Interval: 0.5DEG
 Test System:EVERFINE GO-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	1393	1381	1344	1306	1296	1306	1342	1378	0- 5	32.96	32.96	4.87,4.87
10	1244	1227	1160	1100	1083	1099	1152	1218	5- 10	89.29	122.3	18.1,18.1
15	1010	993.4	919.4	850.3	830.4	848.8	903.6	980.6	10- 15	122.7	244.9	36.2,36.2
20	743.0	730.9	657.2	586.8	568.0	587.8	641.7	713.5	15- 20	128.4	373.3	55.2,55.2
25	499.0	488.4	428.5	371.4	354.1	369.2	414.6	469.7	20- 25	111.3	484.6	71.6,71.6
30	307.9	296.2	251.1	208.5	194.1	204.9	239.7	288.7	25- 30	83.54	568.1	84,84
35	162.8	154.7	127.2	101.2	95.85	101.9	121.8	151.9	30- 35	53.56	621.7	91.9,91.9
40	76.79	71.13	56.45	43.37	41.54	45.03	56.10	71.33	35- 40	29.49	651.2	96.3,96.3
45	29.13	25.15	19.40	15.70	15.28	16.78	20.57	27.48	40- 45	13.64	664.8	98.3,98.3
50	10.66	9.713	7.927	6.707	6.558	7.076	8.504	10.51	45- 50	5.455	670.3	99.1,99.1
55	5.292	4.863	4.288	3.795	3.712	3.956	4.603	5.290	50- 55	2.657	672.9	99.5,99.5
60	3.180	2.888	2.515	2.213	2.159	2.318	2.722	3.168	55- 60	1.605	674.5	99.7,99.7
65	1.879	1.661	1.398	1.225	1.191	1.319	1.556	1.841	60- 65	0.9847	675.5	99.9,99.9
70	1.049	0.8882	0.7104	0.5748	0.5352	0.6521	0.8566	1.018	65- 70	0.5703	676.1	100,100
75	0.4015	0.2963	0.1670	0.0865	0.0740	0.0923	0.2216	0.3696	70- 75	0.2527	676.4	100,100
80	0.0740	0.0618	0.0433	0.0309	0	0	0.0185	0.0430	75- 80	0.0514	676.4	100,100
85	0.0309	0.0308	0.0123	0.0184	0	0	0	0	80- 85	0.0110	676.4	100,100
90	0.0062	0	0	0	0	0	0	0	85- 90	0.0037	676.4	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		

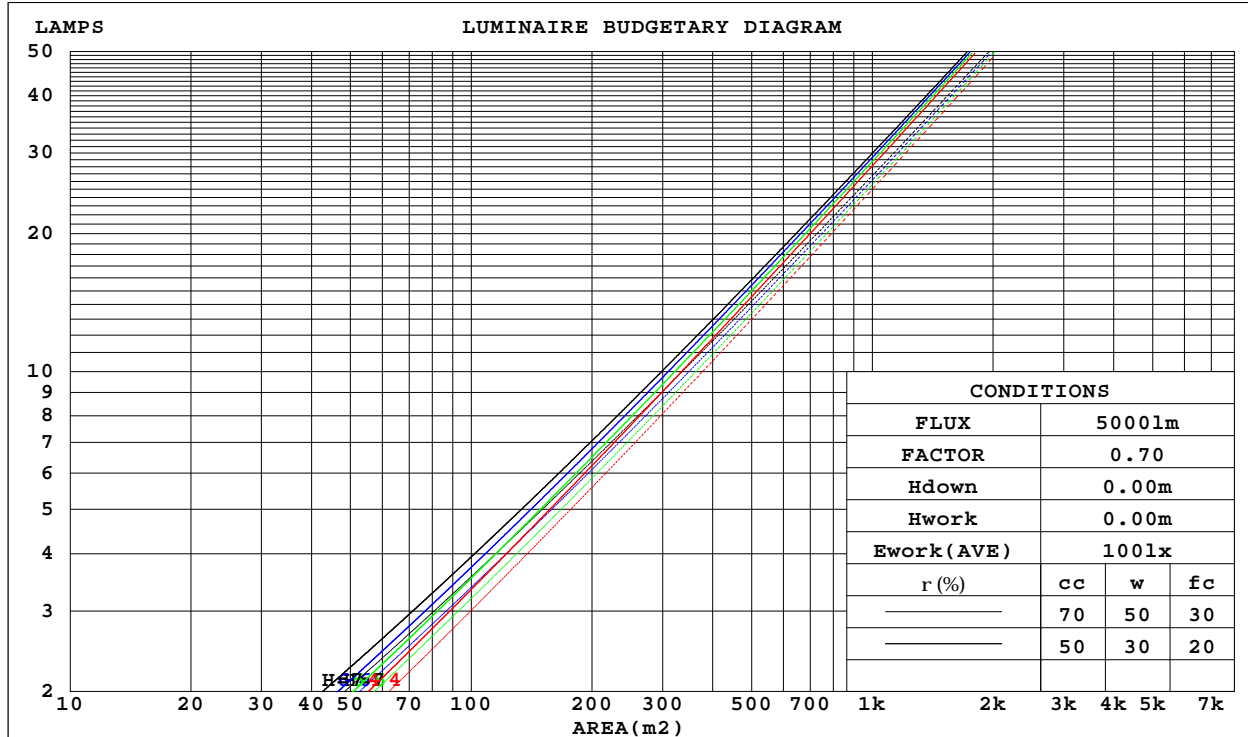
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:01
 Test Date:2017-10-07

g Range: 0 - 90DEG
 Interval: 0.5DEG
 Test System:EVERFINE GO-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:0.0472A P:9.455W PF:0.8688 Lamp Flux:676.422x1 lm		
NAME: 5RS060-1-4000K	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	.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	.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: MEDIUM
 Temperature:25.3DEG
 Operators:01
 Test Date:2017-10-07

g Range: 0 - 90DEG
 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:0.0472A P:9.455W PF:0.8688 Lamp Flux:676.422x1 lm		
NAME: 5RS060-1-4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:001
MFR.: Suzhou Radiant Lighting Technology Co.,Ltd	SUR.:0.00138474	PROTECTION ANGLE:

rcc	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	.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	.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	

rcc	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
 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:0.0472A P:9.455W PF:0.8688 Lamp Flux:676.422x1 lm										
NAME: 5RS060-1-4000K					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	19.9	20.7	20.1	20.8	21.0	18.8	19.6	19.0	19.8	19.9
3H	19.7	20.5	20.0	20.7	20.9	18.6	19.4	18.9	19.6	19.8
4H	19.6	20.3	19.9	20.6	20.8	18.5	19.3	18.8	19.5	19.7
6H	19.5	20.2	19.8	20.5	20.7	18.5	19.1	18.8	19.4	19.6
8H	19.5	20.1	19.8	20.4	20.7	18.4	19.1	18.7	19.3	19.6
12H	19.5	20.1	19.8	20.3	20.6	18.4	19.0	18.7	19.3	19.5
4H 2H	19.6	20.3	19.9	20.6	20.8	18.6	19.3	18.8	19.5	19.7
3H	19.5	20.1	19.8	20.4	20.6	18.4	19.0	18.7	19.3	19.6
4H	19.4	19.9	19.7	20.2	20.5	18.3	18.9	18.6	19.2	19.5
6H	19.3	19.8	19.6	20.1	20.5	18.2	18.7	18.6	19.0	19.4
8H	19.2	19.7	19.6	20.0	20.4	18.1	18.6	18.5	19.0	19.3
12H	19.2	19.6	19.6	20.0	20.4	18.1	18.5	18.5	18.9	19.3
8H 4H	19.2	19.7	19.6	20.0	20.4	18.2	18.6	18.5	19.0	19.3
6H	19.1	19.5	19.5	19.9	20.3	18.0	18.4	18.5	18.8	19.2
8H	19.1	19.4	19.5	19.8	20.3	18.0	18.3	18.4	18.7	19.2
12H	19.0	19.3	19.5	19.7	20.2	17.9	18.2	18.4	18.7	19.1
12H 4H	19.2	19.6	19.6	20.0	20.4	18.1	18.5	18.5	18.9	19.3
6H	19.1	19.4	19.5	19.8	20.3	18.0	18.3	18.4	18.7	19.2
8H	19.0	19.3	19.5	19.7	20.2	17.9	18.2	18.4	18.7	19.1
Variations with the observer position at spacings:										
S = 1.0H	+ 3.4 / -11.4					+ 2.9 / -11.4				
1.5H	+ 5.8 / - 9.6					+ 5.2 / - 9.0				
2.0H	+ 6.6 / - 5.9					+ 5.3 / - 5.3				

CIE Pub.117 Corrected 676.4 lm Total Lamp Luminous Flux.(8log(F/F0) = -1.4)

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 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:0.0472A P:9.455W PF:0.8688 Lamp Flux:676.422x1 lm		
NAME: 5RS060-1-4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:001
MFR.: Suzhou Radiant Lighting Technology Co.,Ltd	SUR.:0.00138474	PROTECTION ANGLE:

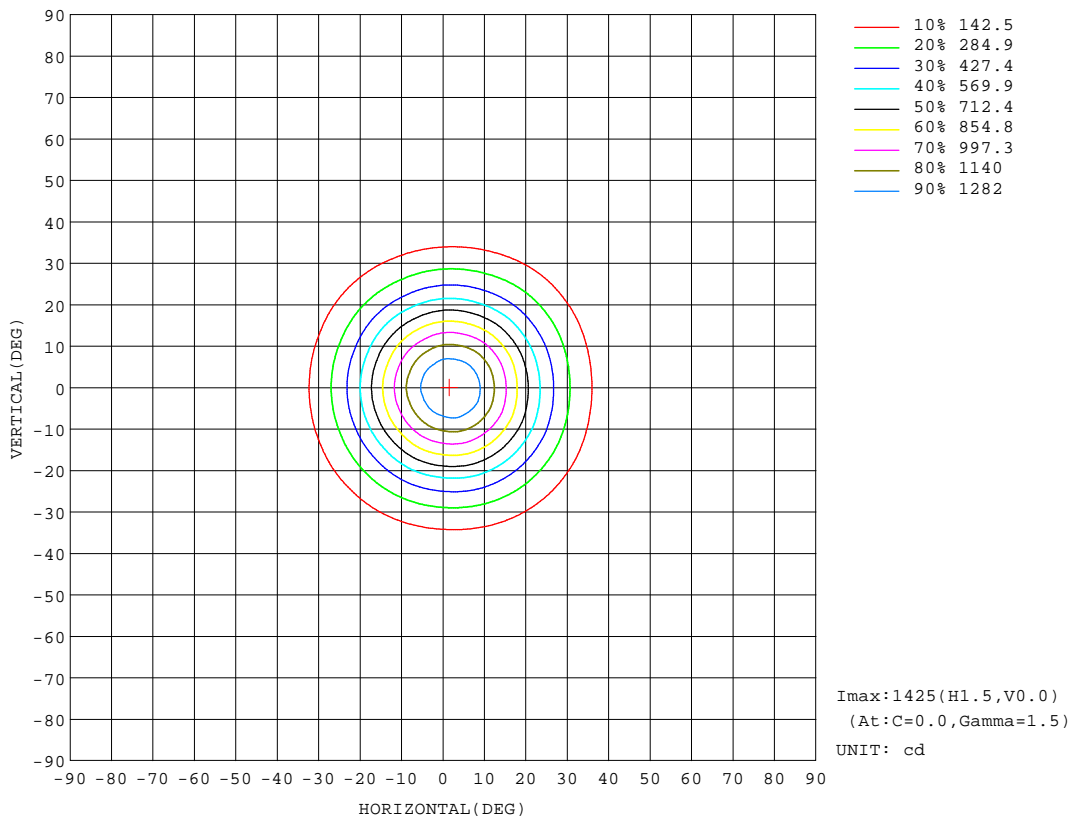
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	89	83	80	89	83	80	88	83	79	76
0.80	96	91	87	96	91	87	95	90	87	83
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

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

ISOCANDELA DIAGRAM

Test:U:230.4V I:0.0472A P:9.455W PF:0.8688 Lamp Flux:676.422x1 lm		
NAME: 5RS060-1-4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:001
MFR.: Suzhou Radiant Lighting Technology Co.,Ltd	SUR.:0.00138474	PROTECTION ANGLE:



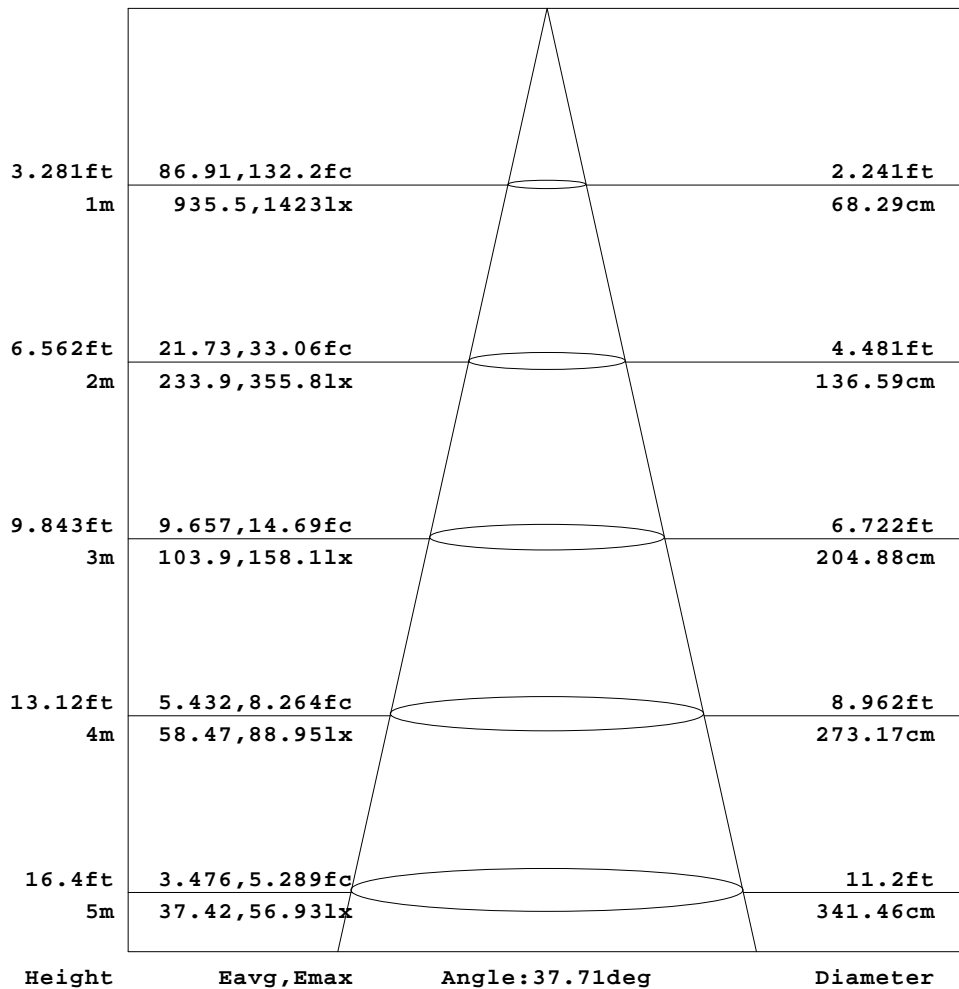
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:01
 Test Date:2017-10-07

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

AAI Figure

Test:U:230.4V I:0.0472A P:9.455W PF:0.8688 Lamp Flux:676.422x1 lm		
NAME: 5RS060-1-4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:001
MFR.: Suzhou Radiant Lighting Technology Co.,Ltd	SUR.:0.00138474	PROTECTION ANGLE:

Flux out:348.5 lm



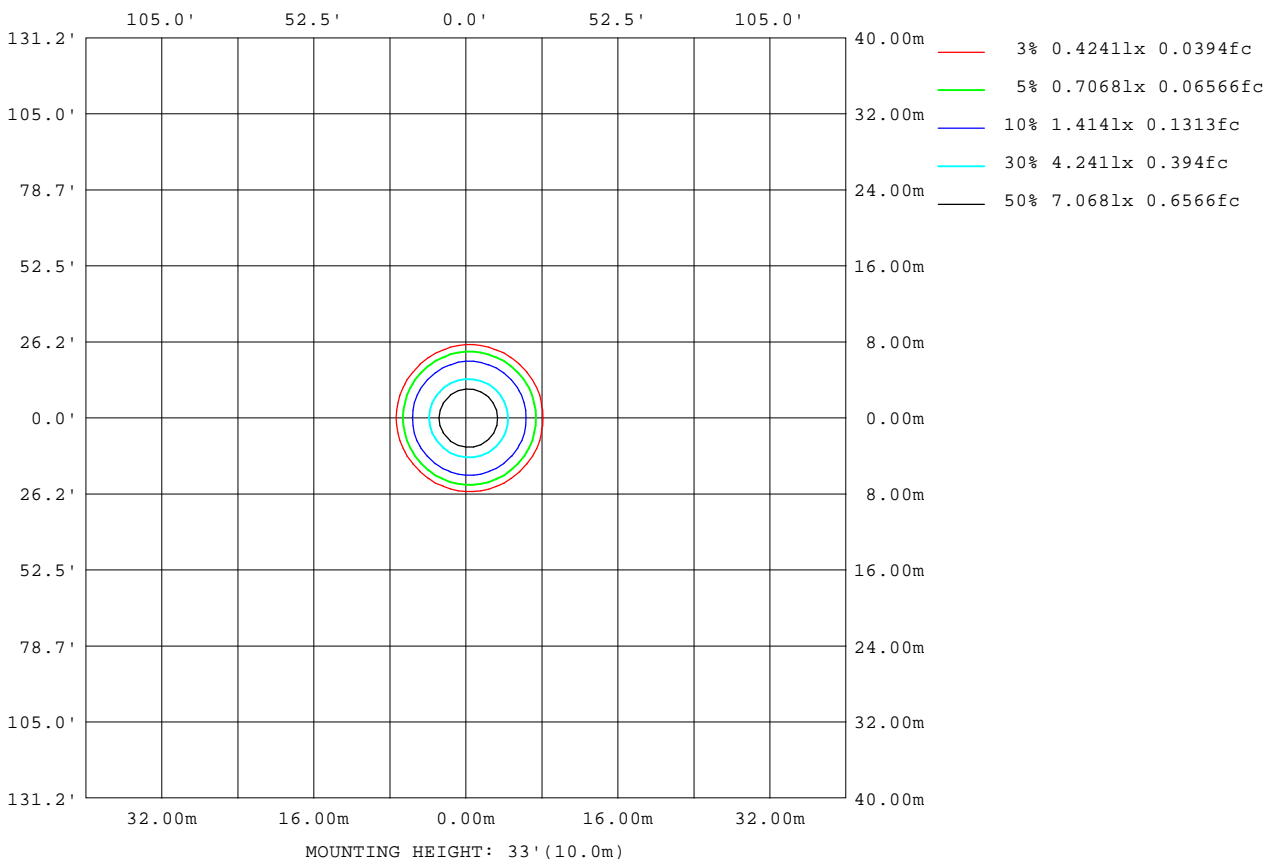
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

ISOLUX DIAGRAM

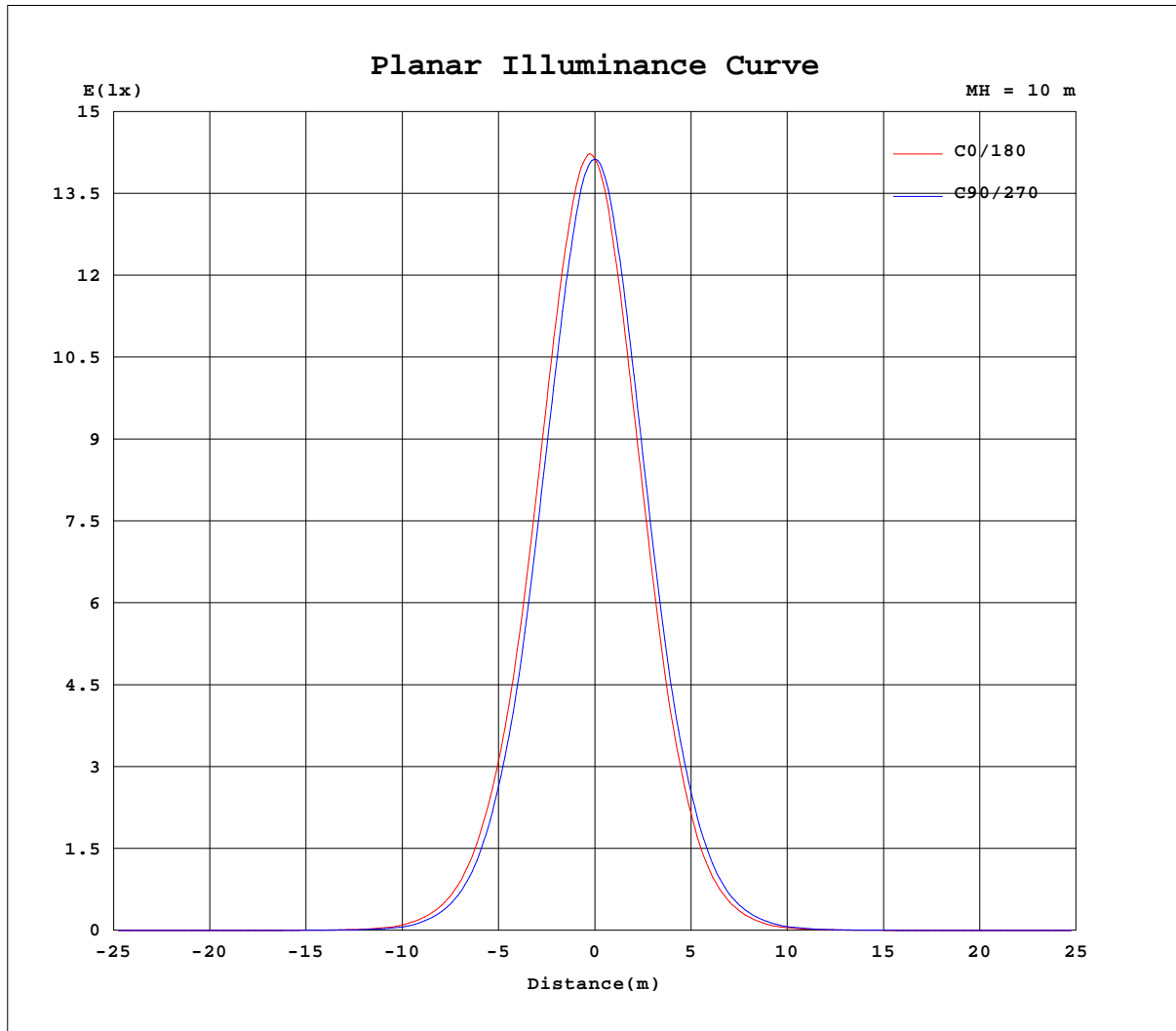
Test:U:230.4V I:0.0472A P:9.455W PF:0.8688 Lamp Flux:676.422x1 lm		
NAME: 5RS060-1-4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:001
MFR.: Suzhou Radiant Lighting Technology Co.,Ltd	SUR.:0.00138474	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: MEDIUM
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g Range: 0 - 90DEG
 Interval: 0.5DEG
 Test System:EVERFINE GO-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

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

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.4V I:0.0472A P:9.455W PF:0.8688 Lamp Flux:676.422x1 lm		
NAME: 5RS060-1-4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:001
MFR.: Suzhou Radiant Lighting Technology Co.,Ltd	SUR.:0.00138474	PROTECTION ANGLE:

Table--1

UNIT: cd

C(DEG) g (DEG)	0	23	45	68	90	113	135	158	180	203	225	248	270	293	315	338			
0	1413	1413	1413	1413	1413	1413	1413	1413	1413	1413	1413	1413	1413	1413	1413	1413			
5	1393	1394	1381	1368	1344	1326	1306	1295	1296	1295	1306	1318	1342	1357	1378	1388			
10	1244	1248	1227	1200	1160	1129	1100	1083	1083	1083	1099	1119	1152	1180	1218	1237			
15	1010	1019	993	964	919	886	850	835	830	827	849	868	904	936	981	1004			
20	743	752	731	703	657	625	587	570	568	566	588	607	642	672	714	736			
25	499	507	488	465	428	402	371	354	354	355	369	384	415	439	470	491			
30	308	309	296	276	251	230	209	197	194	194	205	217	240	262	289	305			
35	163	163	155	143	127	114	101	96.1	95.8	95.5	102	109	122	135	152	161			
40	76.8	76.5	71.1	64.9	56.4	49.8	43.4	41.1	41.5	41.8	45.0	49.0	56.1	63.0	71.3	76.2			
45	29.1	28.6	25.1	22.1	19.4	17.5	15.7	14.9	15.3	15.5	16.8	18.2	20.6	23.4	27.5	29.6			
50	10.7	10.5	9.71	8.85	7.93	7.31	6.71	6.45	6.56	6.60	7.08	7.59	8.50	9.32	10.5	10.9			
55	5.29	5.19	4.86	4.58	4.29	4.01	3.80	3.67	3.71	3.78	3.96	4.18	4.60	4.93	5.29	5.41			
60	3.18	3.07	2.89	2.69	2.52	2.32	2.21	2.13	2.16	2.22	2.32	2.48	2.72	2.96	3.17	3.24			
65	1.88	1.78	1.66	1.50	1.40	1.24	1.22	1.16	1.19	1.26	1.32	1.43	1.56	1.72	1.84	1.92			
70	1.05	0.96	0.89	0.76	0.71	0.60	0.57	0.54	0.54	0.60	0.65	0.79	0.86	0.96	1.02	1.09			
75	0.40	0.33	0.30	0.18	0.17	0.08	0.09	0.07	0.07	0.10	0.09	0.19	0.22	0.33	0.37	0.44			
80	0.07	0.05	0.06	0.06	0.04	0.01	0.03	0.00	0.00	0.04	0.00	0.05	0.02	0.06	0.04	0.07			
85	0.03	0.01	0.03	0.00	0.01	0.00	0.02	0.00	0.00	0.02	0.00	0.02	0.00	0.03	0.00	0.02			
90	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01			

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 GO-2000B_V1 SYSTEM V2.0.279
 Humidity:65.0%
 Test Distance:8.989m [K=1.0000]
 Remarks: