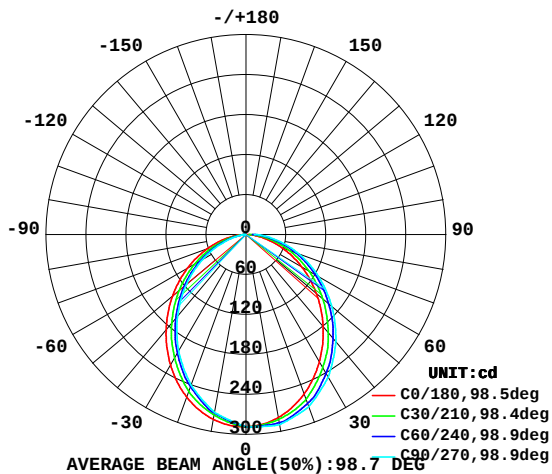


LUMINAIRE PHOTOMETRIC TEST REPORT

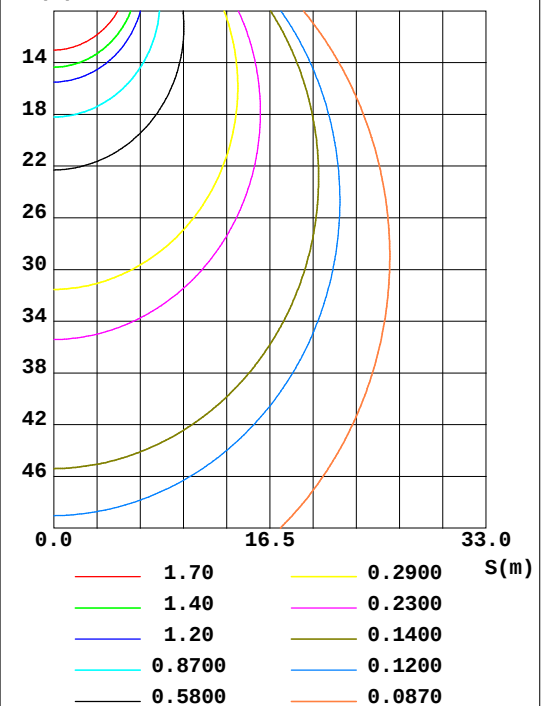
Test:U:230.3V I:0.0379A P:7.885W PF:0.9034 Lamp Flux:711.636x1 lm		
NAME: 5RS024-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:001
MFR.: Su Zhou Radiant Lighting Technology Co.,	LDSUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 90.25 lm/W			
MODEL	5RS024-3000K	I _{max} (cd)	290.0	S/MH(C0/180)	1.15
NOMINAL POWER(W)	8	LOR(%)	100.0	S/MH(C90/270)	1.26
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	711.64	h UP, DN(C0-180)	0.0, 55.8
NOMINAL FLUX(lm)	711.636	CIE CLASS	DIRECT	h UP, DN(C180-360)	0.0, 44.2
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	230.4	h down(%)	100.0	CIBSE SHR MAX	1.30

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 01
Test Date: 2016-12-16

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:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum, lamp
5	285.9	287.5	289.2	288.6	287.2	281.9	279.9	280.9	0- 5	6.846	6.846	0.96, 0.96
10	279.0	284.3	290.0	286.6	281.8	273.4	271.2	271.4	5- 10	20.18	27.03	3.8, 3.8
15	268.6	278.1	282.6	281.4	272.5	262.2	256.1	259.3	10- 15	32.56	59.59	8.37, 8.37
20	254.9	266.1	275.3	270.2	259.9	246.0	240.9	242.7	15- 20	43.35	102.9	14.5, 14.5
25	238.7	252.9	261.1	257.5	244.3	228.9	221.6	225.4	20- 25	52.21	155.2	21.8, 21.8
30	220.4	236.5	247.0	241.4	226.5	209.7	202.3	205.9	25- 30	58.74	213.9	30.1, 30.1
35	200.9	217.7	228.4	223.1	207.1	189.2	181.2	185.2	30- 35	62.92	276.8	38.9, 38.9
40	180.3	198.7	209.9	204.3	186.5	168.7	160.0	164.5	35- 40	64.65	341.5	48, 48
45	159.4	177.6	189.1	182.9	165.4	146.9	138.4	142.9	40- 45	64.11	405.6	57, 57
50	138.3	157.4	168.3	162.2	144.1	125.7	116.9	122.1	45- 50	61.46	467.0	65.6, 65.6
55	117.1	135.8	146.9	140.6	122.7	104.4	95.92	100.7	50- 55	56.93	524.0	73.6, 73.6
60	96.32	114.9	125.5	119.6	101.6	83.82	74.99	80.10	55- 60	50.79	574.8	80.8, 80.8
65	76.02	94.20	104.6	98.27	80.87	63.68	55.87	60.33	60- 65	43.38	618.1	86.9, 86.9
70	56.40	74.14	83.60	77.80	60.86	44.88	36.75	41.89	65- 70	35.06	653.2	91.8, 91.8
75	38.18	54.61	64.08	58.09	42.18	27.47	21.82	24.85	70- 75	26.30	679.5	95.5, 95.5
80	22.04	36.94	44.56	39.86	25.28	13.26	6.901	11.21	75- 80	17.71	697.2	98, 98
85	8.495	21.17	28.67	23.48	10.96	3.776	3.497	2.578	80- 85	10.04	707.2	99.4, 99.4
90	0.0556	7.335	12.78	9.054	0.0603	0.0865	0.0926	0.0864	85- 90	4.392	711.6	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		

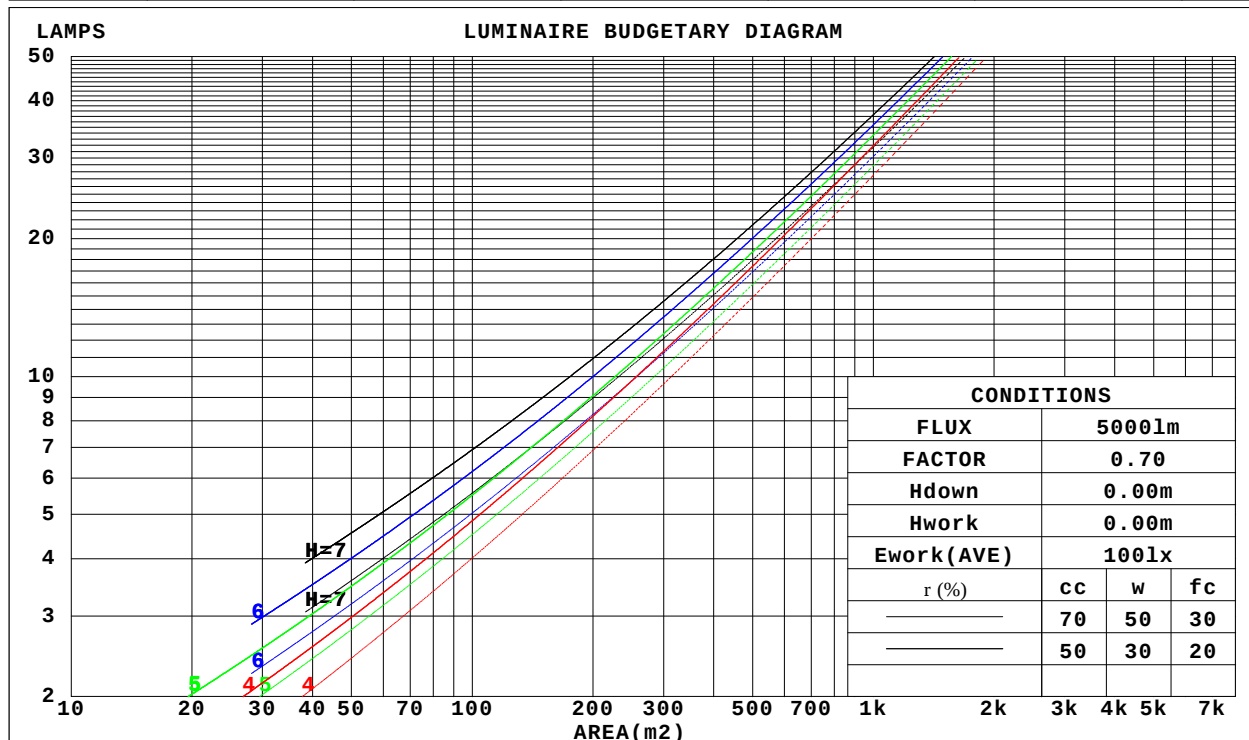
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: 01
 Test Date: 2016-12-16

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:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.3V I:0.0379A P:7.885W PF:0.9034 Lamp Flux:711.636x1 lm		
NAME: 5RS024-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:001
MFR.: Su Zhou Radiant Lighting Technology Co.,	LDSUR.:	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	1.04	1.00	.96	1.02	.98	.95	.98	.95	.92	.94	.91	.89	.90	.88	.86	.84
2.0	.91	.85	.79	.90	.83	.78	.86	.81	.76	.83	.78	.75	.80	.76	.73	.71
3.0	.81	.73	.66	.79	.72	.66	.76	.70	.65	.73	.68	.63	.71	.66	.62	.60
4.0	.72	.63	.57	.70	.62	.56	.68	.61	.55	.66	.60	.55	.63	.58	.54	.52
5.0	.64	.55	.49	.63	.55	.49	.61	.54	.48	.59	.53	.48	.57	.52	.47	.45
6.0	.58	.49	.43	.57	.49	.43	.55	.48	.42	.54	.47	.42	.52	.46	.42	.40
7.0	.53	.44	.38	.52	.44	.38	.50	.43	.38	.49	.42	.37	.48	.42	.37	.35
8.0	.48	.40	.34	.48	.40	.34	.46	.39	.34	.45	.38	.34	.44	.38	.33	.32
9.0	.44	.36	.31	.44	.36	.31	.43	.36	.31	.42	.35	.30	.41	.35	.30	.29
10.0	.41	.33	.28	.41	.33	.28	.40	.33	.28	.39	.32	.28	.38	.32	.28	.26



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: 01
 Test Date: 2016-12-16

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:230.3V I:0.0379A P:7.885W PF:0.9034 Lamp Flux:711.636x1 lm														
NAME: 5RS024-3000K					TYPE:					WEIGHT:				
SPEC.:					DIM.:					SERIAL No.:001				
MFR.: Su Zhou Radiant Lighting Technology Co.,					LDSUR.:					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	.301	.171	.054	.294	.168	.053	.281	.161	.051	.269	.155	.050	.257	.149	.048	
2.0	.283	.155	.048	.277	.152	.047	.265	.147	.046	.254	.143	.045	.244	.138	.044	
3.0	.262	.139	.042	.256	.137	.041	.246	.133	.041	.237	.130	.040	.228	.126	.039	
4.0	.242	.126	.037	.237	.124	.037	.228	.121	.036	.220	.118	.036	.212	.115	.035	
5.0	.224	.114	.033	.220	.113	.033	.212	.110	.032	.205	.108	.032	.198	.106	.032	
6.0	.208	.104	.030	.205	.103	.030	.197	.101	.029	.191	.099	.029	.185	.097	.029	
7.0	.194	.096	.027	.191	.095	.027	.185	.093	.027	.179	.092	.027	.173	.090	.026	
8.0	.182	.089	.025	.179	.088	.025	.173	.086	.025	.168	.085	.024	.163	.083	.024	
9.0	.171	.083	.023	.168	.082	.023	.163	.080	.023	.158	.079	.023	.153	.078	.023	
10.0	.161	.077	.021	.158	.076	.021	.154	.075	.021	.149	.074	.021	.145	.073	.021	

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 Ceiling Cavity Exitance Coefficients(CCEC)															
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.180	.156	.135	.154	.134	.116	.105	.092	.080	.061	.053	.047	.019	.017	.015	
2.0	.171	.132	.099	.146	.114	.086	.100	.079	.060	.058	.046	.035	.019	.015	.011	
3.0	.163	.114	.075	.140	.099	.065	.096	.068	.046	.055	.040	.027	.018	.013	.009	
4.0	.155	.101	.059	.133	.087	.052	.092	.061	.036	.053	.036	.021	.017	.012	.007	
5.0	.148	.090	.048	.127	.078	.042	.087	.055	.030	.051	.032	.018	.016	.010	.006	
6.0	.140	.082	.040	.121	.071	.035	.083	.050	.025	.048	.029	.015	.016	.010	.005	
7.0	.134	.075	.034	.115	.065	.029	.079	.046	.021	.046	.027	.012	.015	.009	.004	
8.0	.127	.069	.029	.110	.060	.025	.076	.042	.018	.044	.025	.011	.014	.008	.004	
9.0	.121	.064	.026	.105	.056	.022	.072	.039	.016	.042	.023	.009	.014	.008	.003	
10.0	.116	.060	.023	.100	.052	.020	.069	.037	.014	.040	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:01
 Test Date:2016-12-16

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:230.3V I:0.0379A P:7.885W PF:0.9034 Lamp Flux:711.636x1 lm											
NAME: 5RS024-3000K					TYPE:			WEIGHT:			
SPEC.:					DIM.:			SERIAL No.:001			
MFR.: Su Zhou Radiant Lighting Technology Co.,					LDSUR.:			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	25.6	27.1	25.9	27.3	27.5	26.6	28.1	26.9	28.3	28.5	
	3H	26.9	28.3	27.2	28.5	28.8	28.3	29.7	28.6	29.9	30.2
	4H	27.4	28.7	27.7	29.0	29.2	29.1	30.4	29.4	30.7	30.9
	6H	27.8	29.0	28.1	29.3	29.5	29.8	31.0	30.1	31.3	31.6
	8H	27.9	29.0	28.2	29.3	29.6	30.1	31.3	30.5	31.6	31.9
	12H	27.9	29.0	28.3	29.3	29.6	30.4	31.6	30.8	31.8	32.1
4H	2H	26.4	27.7	26.7	27.9	28.2	27.2	28.5	27.5	28.7	29.0
	3H	27.9	29.1	28.3	29.4	29.7	29.1	30.2	29.4	30.5	30.8
	4H	28.6	29.6	28.9	29.9	30.3	30.0	31.1	30.4	31.4	31.7
	6H	29.0	30.0	29.4	30.3	30.7	30.9	31.8	31.3	32.1	32.5
	8H	29.2	30.0	29.6	30.4	30.8	31.3	32.1	31.7	32.5	32.9
	12H	29.3	30.1	29.7	30.4	30.8	31.7	32.5	32.1	32.8	33.2
8H	4H	29.0	29.9	29.4	30.2	30.6	30.3	31.1	30.7	31.5	31.9
	6H	29.7	30.4	30.1	30.8	31.2	31.3	32.0	31.8	32.4	32.9
	8H	29.9	30.6	30.4	31.0	31.4	31.8	32.5	32.3	32.9	33.4
	12H	30.1	30.6	30.6	31.1	31.6	32.4	32.9	32.9	33.4	33.9
12H	4H	29.1	29.9	29.5	30.2	30.7	30.3	31.1	30.7	31.4	31.9
	6H	29.8	30.5	30.3	30.9	31.3	31.4	32.0	31.8	32.4	32.9
	8H	30.1	30.7	30.6	31.1	31.6	32.0	32.5	32.4	33.0	33.4
Variations with the observer position at spacings:											
S = 1.0H	+ 0.2 / - 0.2					+ 0.1 / - 0.2					
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.3					
2.0H	+ 0.2 / - 0.4					+ 0.1 / - 0.2					

CIE Pub.117 Corrected 711.6 lm Total Lamp Luminous Flux.(8log(F/F0) = -1.2)

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:01
 Test Date:2016-12-16

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:230.3V I:0.0379A P:7.885W PF:0.9034 Lamp Flux:711.636x1 lm		
NAME: 5RS024-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:001
MFR.: Su Zhou Radiant Lighting Technology Co.,	LDSUR.:	PROTECTION ANGLE:

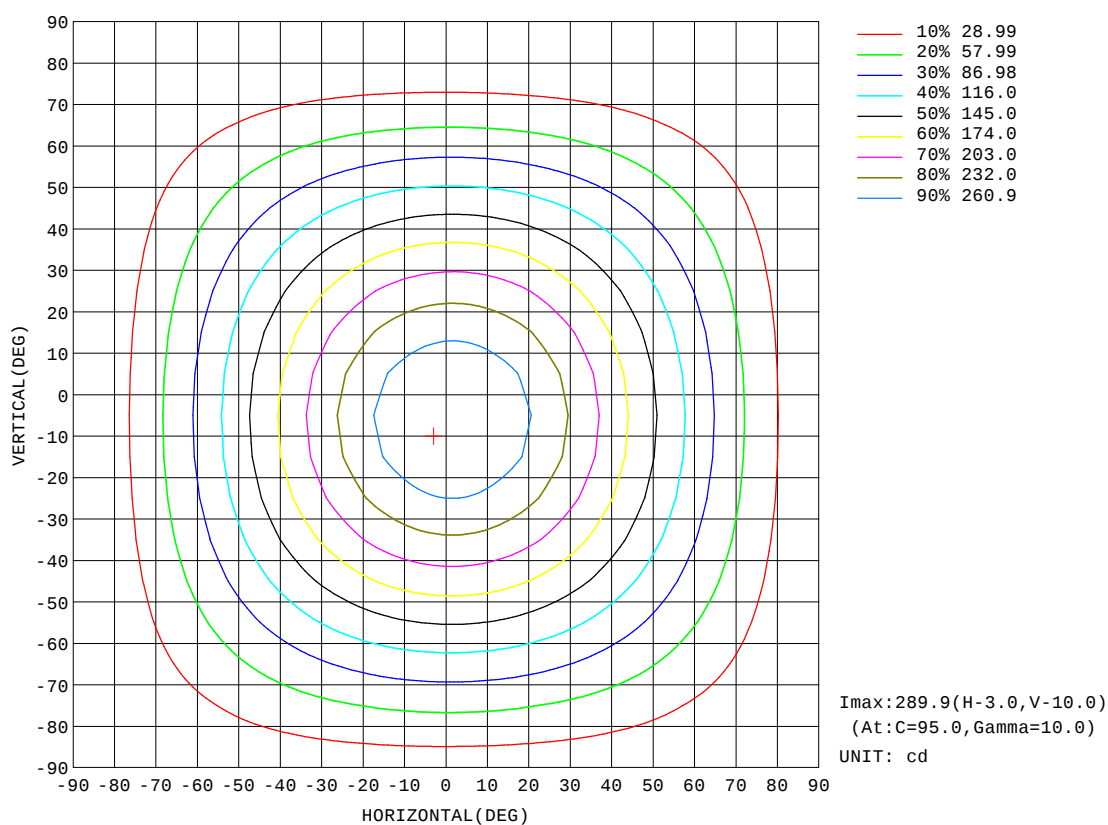
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	59	48	41	59	48	41	58	47	41	35
0.80	69	58	51	68	58	51	67	57	51	44
1.00	78	67	60	77	66	60	74	68	59	52
1.25	85	74	68	83	74	67	81	72	66	59
1.50	89	80	73	88	79	73	85	77	72	64
2.00	96	88	82	94	87	81	91	84	79	72
2.50	100	92	86	98	91	85	94	88	84	75
3.00	103	96	91	101	95	90	97	92	88	79
4.00	107	101	97	104	99	95	100	96	93	84
5.00	109	104	100	107	102	99	102	99	96	87
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:01
 Test Date:2016-12-16

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:230.3V I:0.0379A P:7.885W PF:0.9034 Lamp Flux:711.636x1 lm		
NAME: 5RS024-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:001
MFR.: Su Zhou Radiant Lighting Technology Co.,	LDSUR.:	PROTECTION ANGLE:



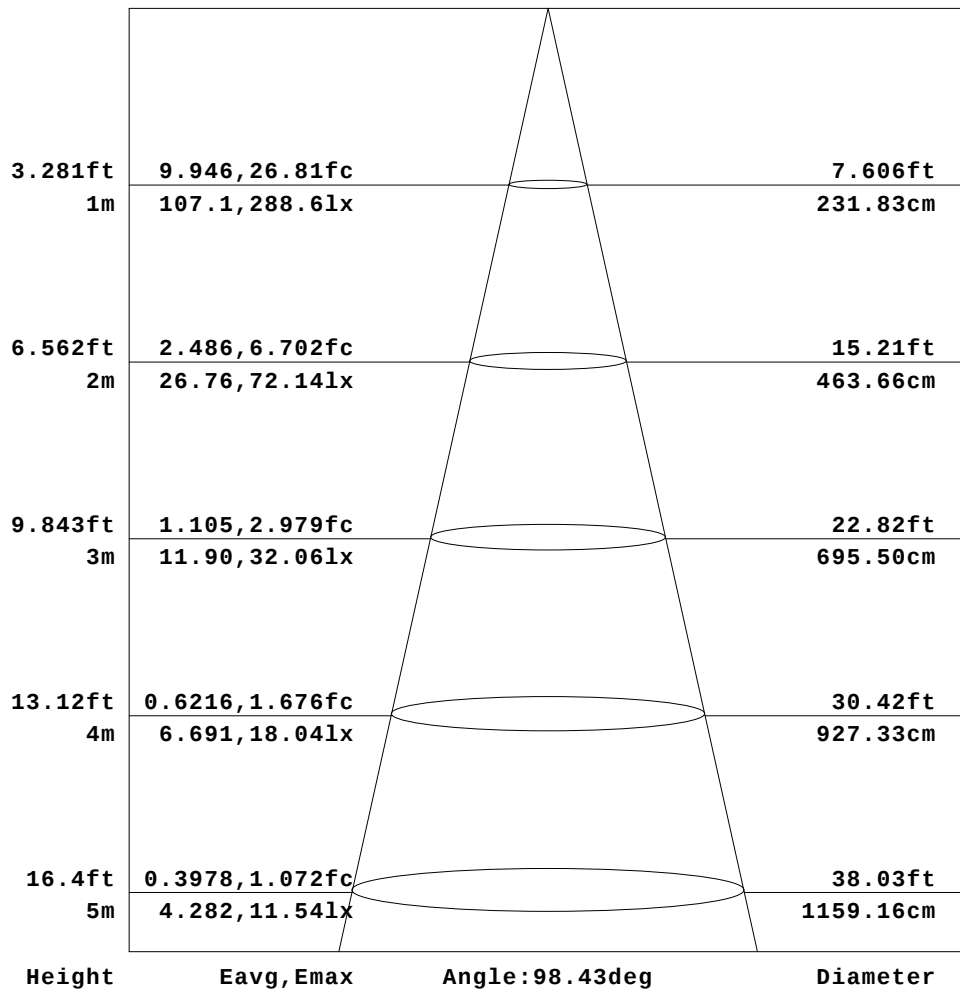
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:01
Test Date:2016-12-16

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:230.3V I:0.0379A P:7.885W PF:0.9034 Lamp Flux:711.636x1 lm		
NAME: 5RS024-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:001
MFR.: Su Zhou Radiant Lighting Technology Co.,	LDSUR.:	PROTECTION ANGLE:

Flux out:461.1 lm



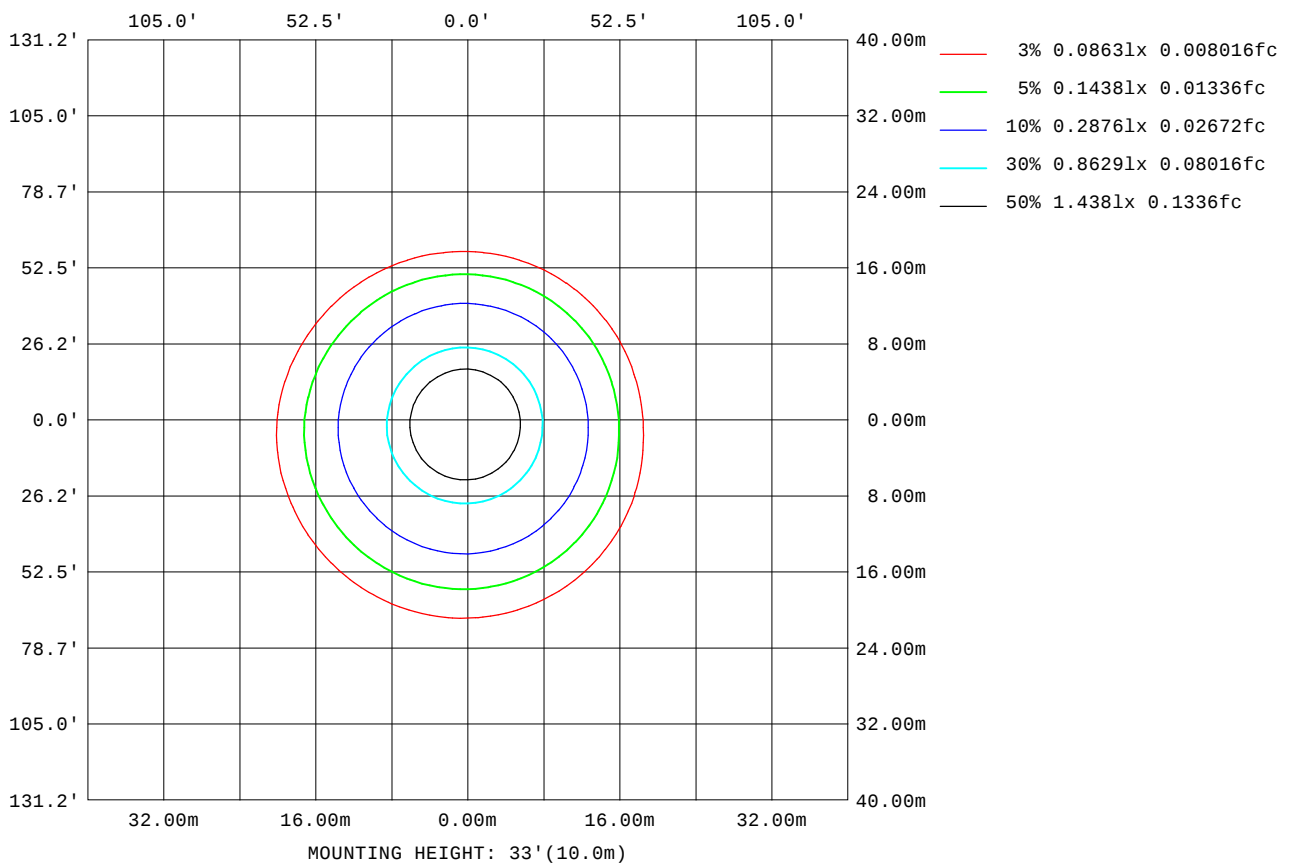
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 01
Test Date: 2016-12-16

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

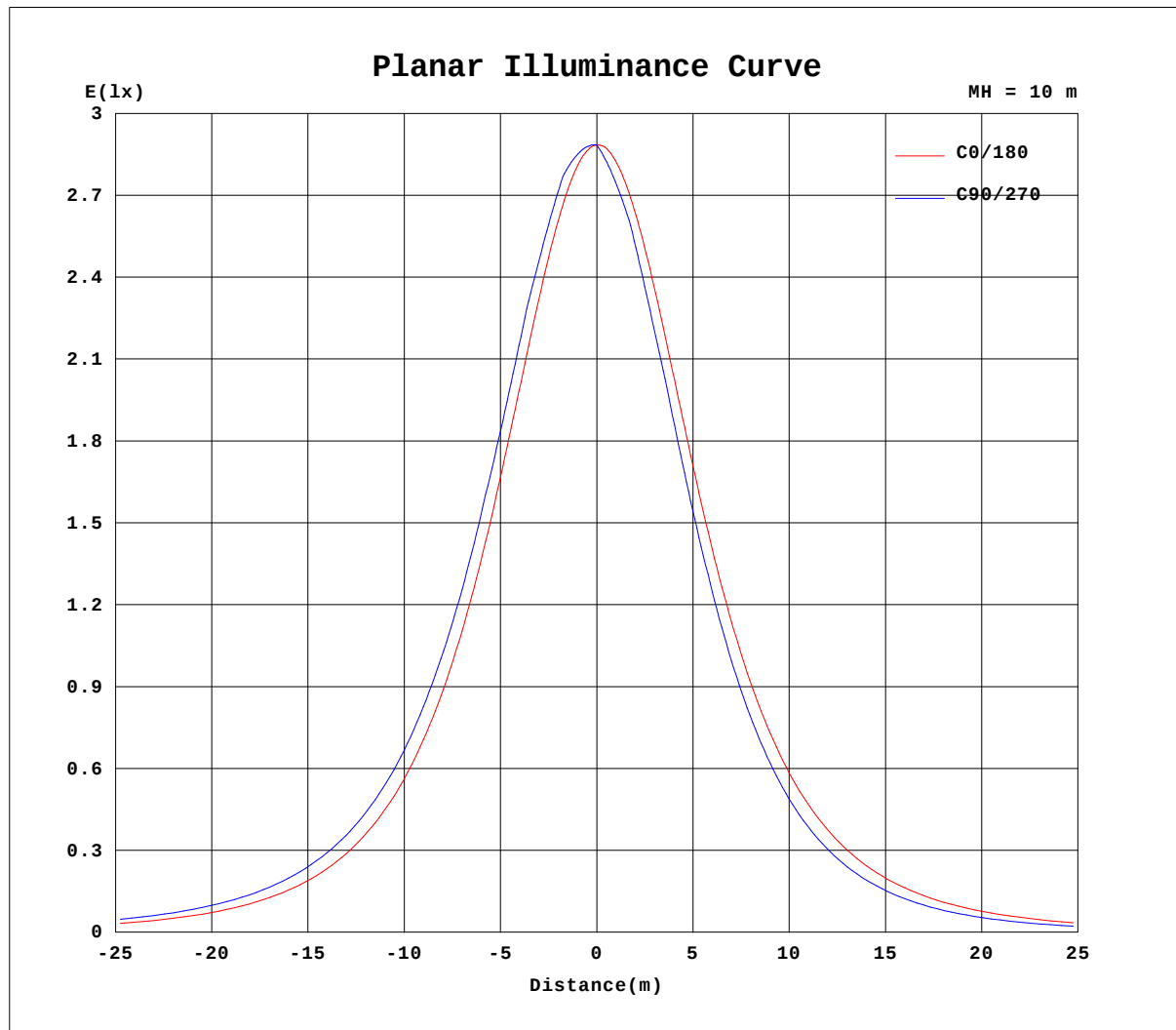
Test:U:230.3V I:0.0379A P:7.885W PF:0.9034 Lamp Flux:711.636x1 lm		
NAME: 5RS024-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:001
MFR.: Su Zhou Radiant Lighting Technology Co.,	LDSUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 01
Test Date: 2016-12-16

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: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 01
Test Date: 2016-12-16

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:

