

---

革星

---

Client:

LumCAT: 支架灯

Luminaire: LED 灯具

Report No:

Ballast type:

Test No:

Voltage(V): 120.080

LampCAT:

Current(A): 0.303

Lamp flux(lm): 3080.2

Power (W): 36.260

Number of Lamps: 1

PF: 0.996

Length(mm): 1180

Width(mm): 100

Phm Type: C

Height(mm): 5

---

Photometric Results

---

Lumens(lm): 3080.24, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 84.95

Central intensity(cd): 1109.559, Maximum intensity(cd): 1109.559

Angle of maximum intensity: C=0.0  $\gamma$ =0.0

Beam Angle(50%Imax): [C0/180]Total=107.4

[C90/270]Total=107.4

Field angle(10%Imax): [C0/180]Total=167.0

[C90/270]Total=159.0

Maximum s/h(1/2): C0\_180=1.22 C90\_270=1.22

Maximum s/h(1/4): C0\_180=1.34 C90\_270=1.34

Up flux rate of lamp(%): 1.45%

Down flux rate of lamp(%): 98.55%

Up flux rate of LUM(%): 1.45%

Down flux rate of LUM(%): 98.55%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 77.354%

革星 支架灯

Zonal flux distribution table

Appendix Page: 2 Total:10

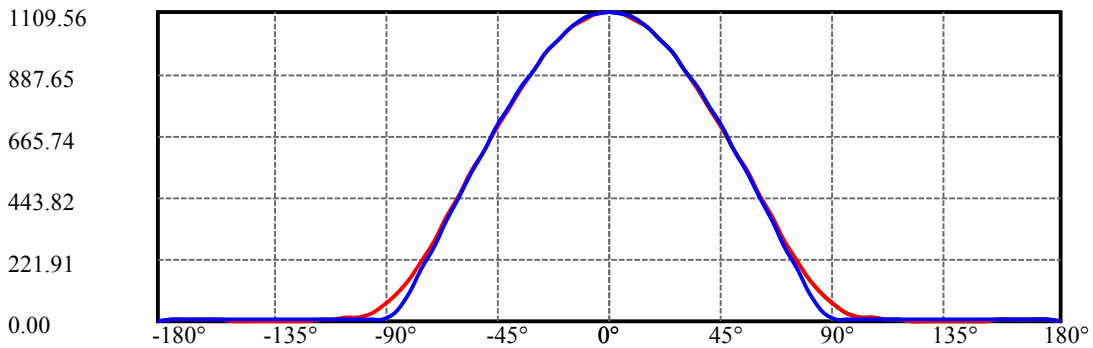
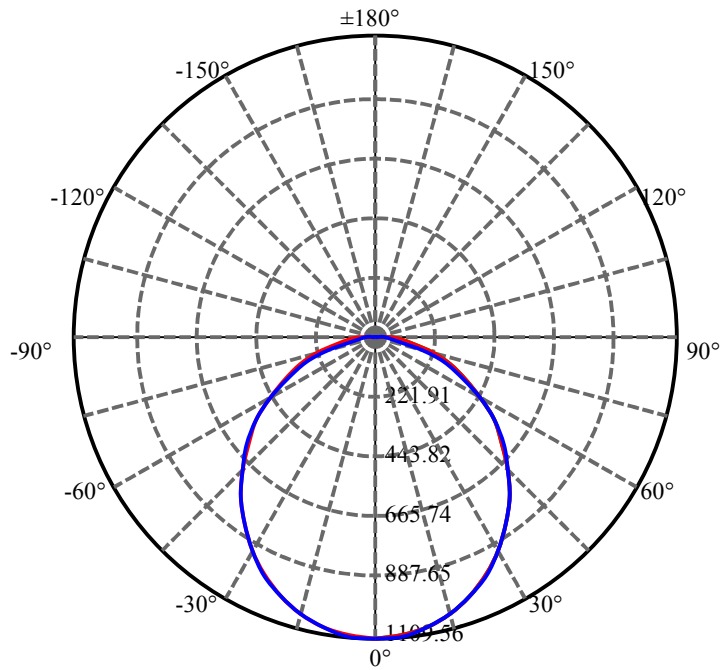
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1109.559	0.000	0	0.00%	0.00%
5.0	1103.598	26.458	26.458	0.86%	0.86%
10.0	1085.026	78.294	104.752	2.54%	3.40%
15.0	1054.976	126.943	231.695	4.12%	7.52%
20.0	1014.237	170.532	402.227	5.54%	13.06%
25.0	962.999	207.376	609.603	6.73%	19.79%
30.0	905.313	236.437	846.039	7.68%	27.47%
35.0	838.501	256.789	1102.828	8.34%	35.80%
40.0	768.223	268.070	1370.898	8.70%	44.51%
45.0	692.749	270.511	1641.409	8.78%	53.29%
50.0	614.425	264.133	1905.542	8.58%	61.86%
55.0	534.078	249.723	2155.265	8.11%	69.97%
60.0	449.784	227.417	2382.682	7.38%	77.35%
65.0	365.304	198.150	2580.832	6.43%	83.79%
70.0	281.873	163.869	2744.701	5.32%	89.11%
75.0	199.646	125.861	2870.562	4.09%	93.19%
80.0	125.691	87.051	2957.614	2.83%	96.02%
85.0	65.733	52.015	3009.628	1.69%	97.71%
90.0	29.293	26.019	3035.647	0.84%	98.55%
95.0	16.501	12.539	3048.186	0.41%	98.96%
100.0	10.332	7.291	3055.477	0.24%	99.20%
105.0	7.923	4.885	3060.362	0.16%	99.35%
110.0	6.739	3.833	3064.194	0.12%	99.48%
115.0	5.534	3.108	3067.302	0.10%	99.58%
120.0	3.455	2.185	3069.487	0.07%	99.65%
125.0	2.972	1.486	3070.973	0.05%	99.70%
130.0	2.928	1.283	3072.256	0.04%	99.74%
135.0	2.928	1.183	3073.439	0.04%	99.78%
140.0	3.148	1.125	3074.564	0.04%	99.82%
145.0	3.345	1.083	3075.647	0.04%	99.85%
150.0	3.632	1.027	3076.674	0.03%	99.88%
155.0	3.963	0.961	3077.635	0.03%	99.92%
160.0	4.340	0.871	3078.506	0.03%	99.94%
165.0	4.604	0.737	3079.243	0.02%	99.97%
170.0	4.803	0.558	3079.801	0.02%	99.99%
175.0	5.001	0.351	3080.152	0.01%	100.00%
180.0	2.567	0.090	3080.243	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	846.04	27.47%	27.47%
0-40	1370.90	44.51%	44.51%
0-60	2382.68	77.35%	77.35%
0-90	3035.65	98.55%	98.55%
0-120	3069.49	99.65%	99.65%
0-180	3080.24	100.00%	100.00%
60-90	652.97	21.20%	21.20%
90-120	33.84	1.10%	1.10%
90-130	36.61	1.19%	1.19%
90-150	41.03	1.33%	1.33%
90-180	44.50	1.44%	1.44%
0-62.06	2464.19	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	104.75
10-20	297.48
20-30	443.81
30-40	524.86
40-50	534.64
50-60	477.14
60-70	362.02
70-80	212.91
80-90	78.03
90-100	19.83
100-110	8.72
110-120	5.29
120-130	2.77
130-140	2.31
140-150	2.11
150-160	1.83
160-170	1.30
170-180	0.35



C0(Max): ——

C0/C180: ——

C90/C270: ——

Field angle(10%Imax):C0/180Left:83.5 Right:83.5

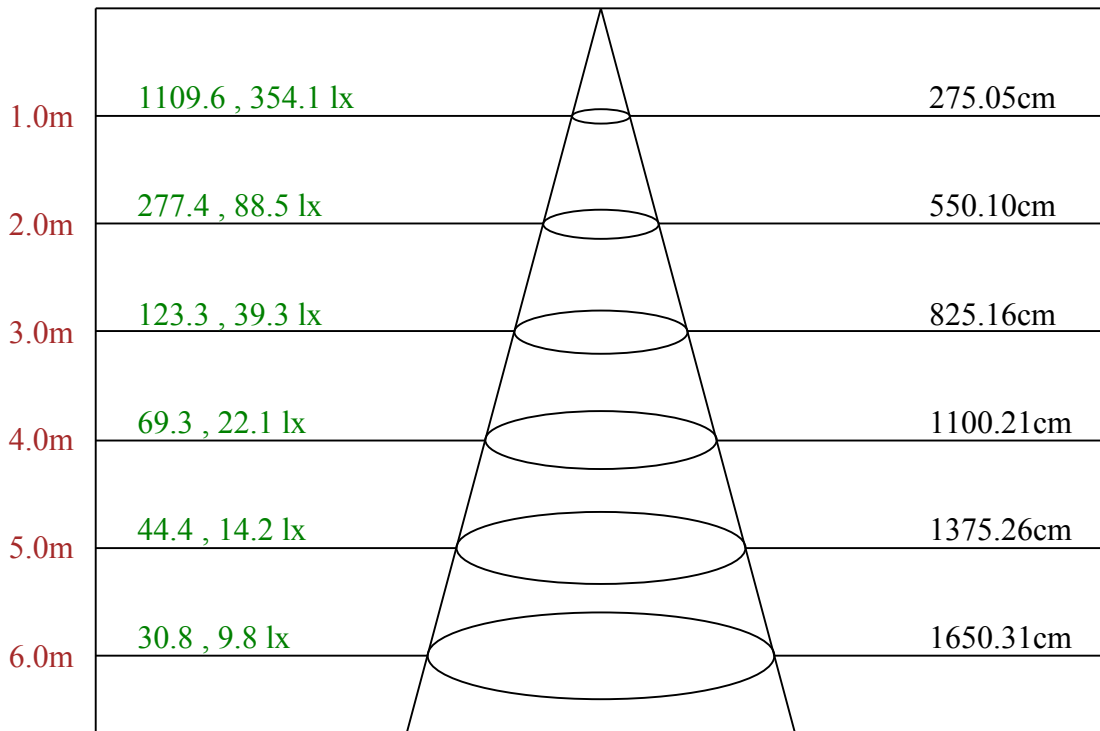
:C90/270Left:79.5 Right:79.5

Beam Angle(50%Imax):C0/180Left:53.7 Right:53.7

:C90/270Left:53.7 Right:53.7

# 革星 支架灯

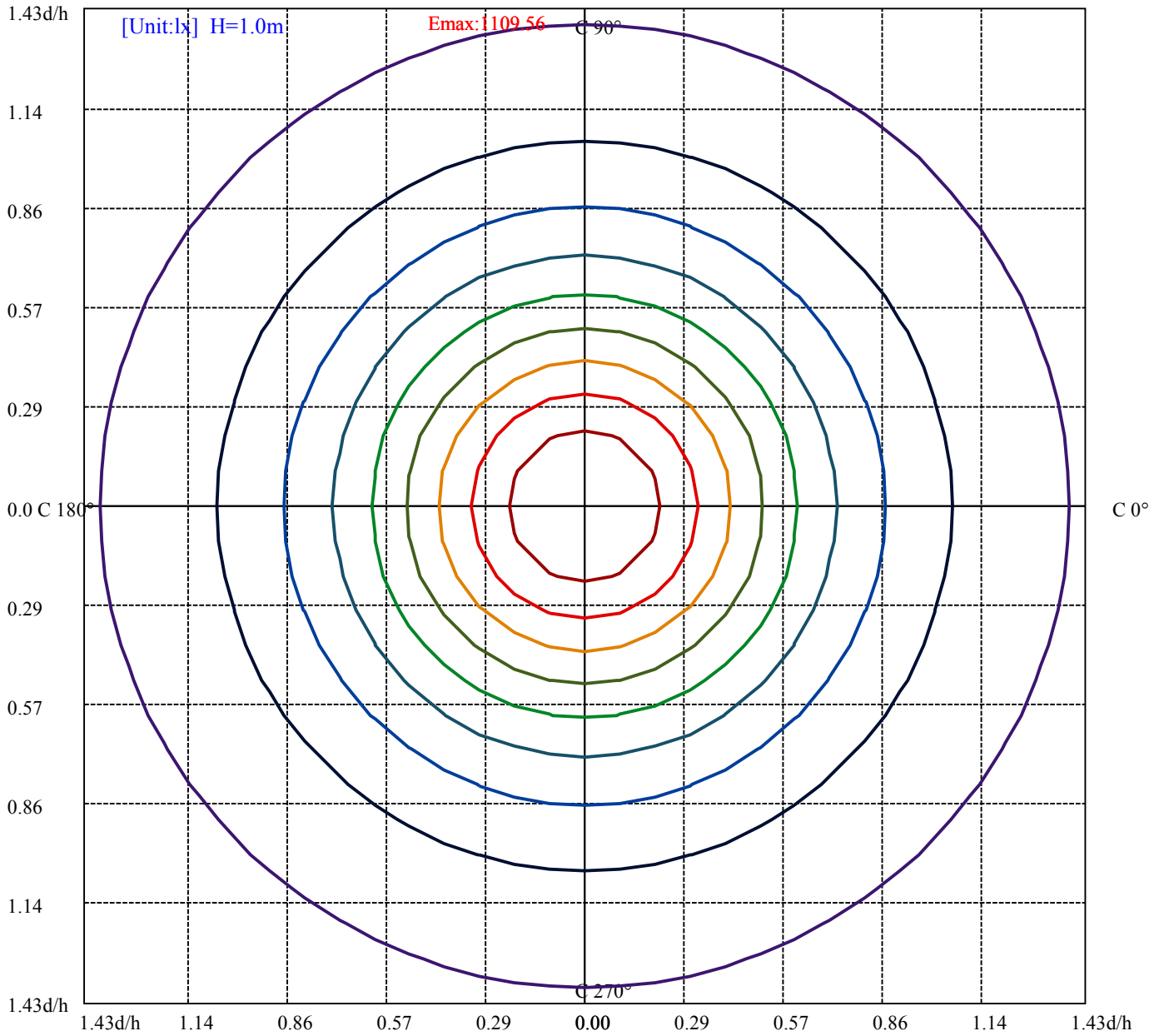
## Lux distance Curve



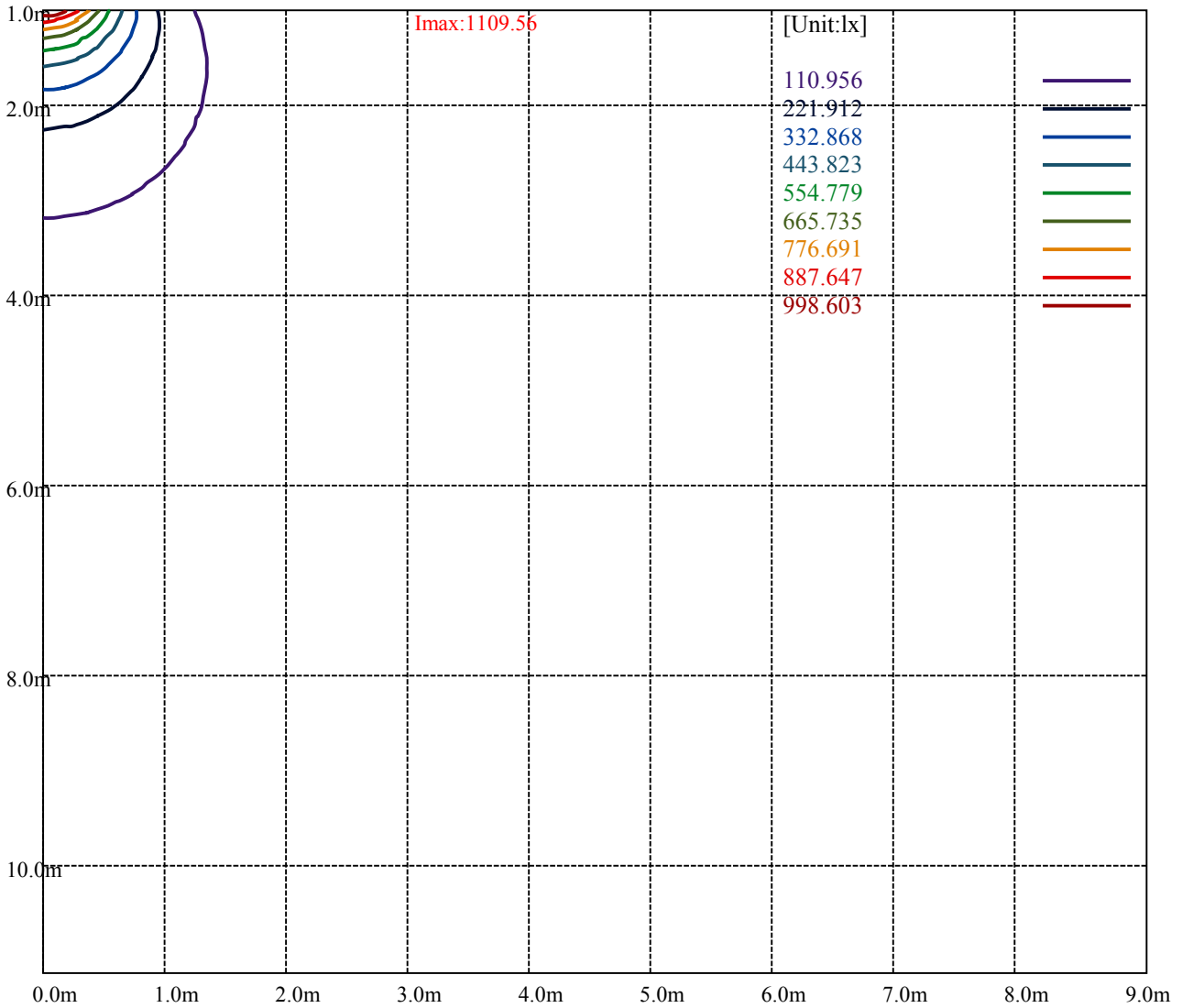
Max , Ave      Beam angle of C0 plane 107.96

革星 支架灯

ISO illuminance diagram



- (10%Emax) 110.956
- (20%Emax) 221.912
- (30%Emax) 332.868
- (40%Emax) 443.823
- (50%Emax) 554.779
- (60%Emax) 665.735
- (70%Emax) 776.691
- (80%Emax) 887.647
- (90%Emax) 998.603



# 革星 支架灯

## Luminance Limiting Curve(no luminous side)

Appendix Page: 8 Total:10

Luminance Table

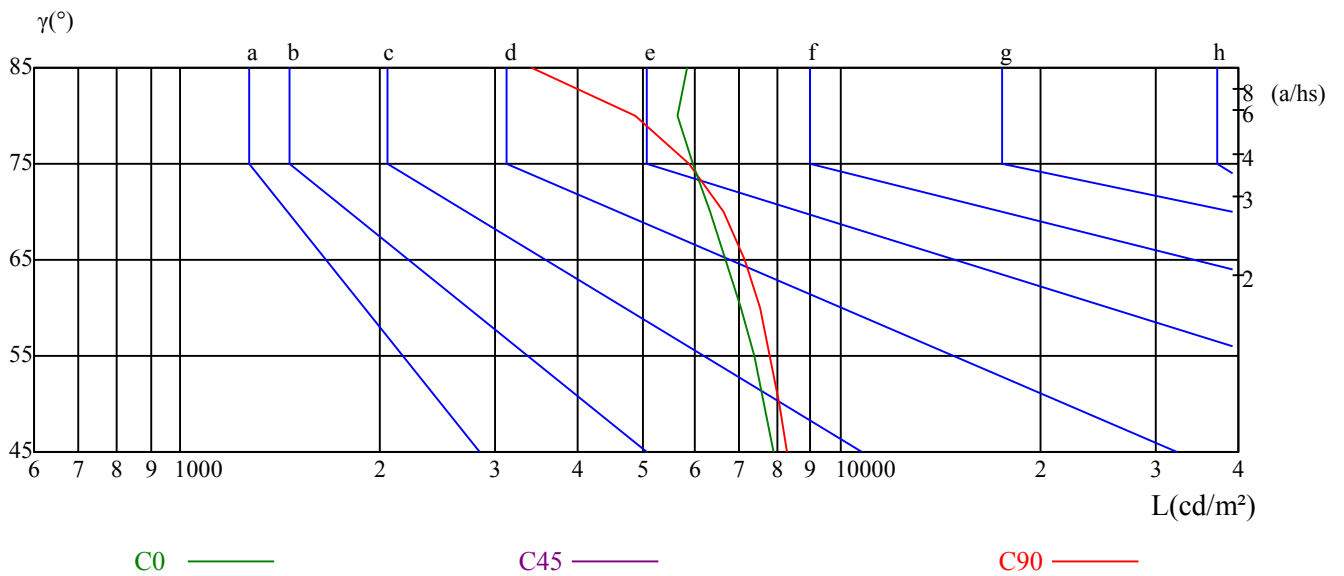
$\gamma$	45	50	55	60	65	70	75	80	85
C0	7896	7629	7381	7054	6699	6359	5965	5670	5867
C45	0	0	0	0	0	0	0	0	0
C90	8279	8077	7826	7526	7168	6659	5902	4874	3398

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
7417	7233	0	7079	5996	0	9221	3563	0

Glare Table

Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve





革星 支架灯

Utilization factor table for indoor luminaire

Appendix Page: 9 Total:10

RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFICIENTS OF UTILIZATION RHOFC=20 CU															
0	1.19	1.19	1.19	1.16	1.16	1.16	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	0.99
1	1.03	0.99	0.95	1.01	0.97	0.93	0.96	0.93	0.90	0.92	0.90	0.87	0.88	0.86	0.84	0.82
2	0.90	0.83	0.77	0.88	0.82	0.76	0.84	0.79	0.74	0.81	0.76	0.72	0.77	0.74	0.71	0.68
3	0.79	0.71	0.64	0.77	0.70	0.64	0.74	0.68	0.62	0.71	0.66	0.61	0.68	0.64	0.60	0.58
4	0.70	0.61	0.55	0.69	0.60	0.54	0.66	0.59	0.53	0.63	0.57	0.52	0.61	0.56	0.51	0.49
5	0.63	0.54	0.47	0.61	0.53	0.47	0.59	0.52	0.46	0.57	0.50	0.45	0.55	0.49	0.45	0.43
6	0.56	0.47	0.41	0.55	0.47	0.41	0.53	0.46	0.40	0.52	0.45	0.40	0.50	0.44	0.39	0.37
7	0.51	0.42	0.36	0.50	0.42	0.36	0.49	0.41	0.36	0.47	0.40	0.35	0.46	0.40	0.35	0.33
8	0.47	0.38	0.32	0.46	0.38	0.32	0.45	0.37	0.32	0.43	0.37	0.32	0.42	0.36	0.31	0.29
9	0.43	0.35	0.29	0.42	0.34	0.29	0.41	0.34	0.29	0.40	0.33	0.29	0.39	0.33	0.28	0.27
10	0.40	0.32	0.26	0.39	0.31	0.26	0.38	0.31	0.26	0.37	0.31	0.26	0.36	0.30	0.26	0.24

革星 支架灯

Intensity data(cd)

C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	1109.56	1110.17	1100.01	1077.25	1042.58	995.73	941.97	876.04	808.00
90.0	1109.56	1106.25	1088.17	1060.53	1019.64	971.23	913.43	848.65	779.94
180.0	1109.56	1094.50	1068.93	1032.07	986.01	929.01	867.72	798.11	726.40
270.0	1109.56	1103.47	1082.98	1050.06	1008.72	956.02	898.13	831.21	758.55
360.0	1109.56	1110.17	1100.01	1077.25	1042.58	995.73	941.97	876.04	808.00
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	734.80	655.30	576.23	492.44	411.44	330.10	249.46	177.92	117.33
90.0	704.87	627.83	543.82	460.16	374.80	284.26	194.60	112.65	44.20
180.0	648.82	570.89	494.28	412.06	328.35	253.66	182.91	120.31	72.32
270.0	682.50	603.68	521.99	434.48	346.62	259.47	171.61	91.89	29.08
360.0	734.80	655.30	576.23	492.44	411.44	330.10	249.46	177.92	117.33
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	69.08	37.13	18.48	10.77	8.23	6.74	3.59	2.19	2.36
90.0	6.35	4.83	5.28	5.10	5.01	5.01	5.10	5.19	5.01
180.0	39.14	21.45	14.62	12.96	11.03	7.97	2.80	2.36	2.19
270.0	2.59	2.59	2.95	2.86	2.68	2.42	2.33	2.15	2.15
360.0	69.08	37.13	18.48	10.77	8.23	6.74	3.59	2.19	2.36
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	2.28	2.71	3.15	3.68	4.03	4.38	4.64	4.82	4.90
90.0	4.92	4.83	4.74	4.92	5.10	5.37	5.37	5.37	5.28
180.0	2.28	2.54	2.80	3.06	3.50	3.77	4.20	4.55	4.99
270.0	2.24	2.51	2.68	2.86	3.22	3.85	4.21	4.47	4.83
360.0	2.28	2.71	3.15	3.68	4.03	4.38	4.64	4.82	4.90
C/γ(°)	180.0								
0.0	5.08								
90.0	5.19								
180.0	0.00								
270.0	0.00								
360.0	5.08								