

深圳万景华分布光度计测试报告

灯具名称: 工矿灯GT-240  
灯具描述: 反光杯110度加透明罩  
报告编号: WJH-GM-06  
测试编号: 09  
光源规格型号: CLU046-1818C1  
每个光源光通量(lm): 21753.6  
光源数量: 1  
发光面长度(mm): 500  
测试模式: C  
电压(V): 220.0000  
电流(A): 1.0940  
功率(W): 237.7000  
功率因数: 0.9880  
镇流器型号:  
发光面宽度(mm): 500  
发光面高度(mm): 170

光度结果

灯具光通量(lm): 21753.78  
灯具效率(%): 100.00%  
灯具效能(lm/w): 91.52  
中心光强(cd): 7799.174  
最大光强(cd): 8922.915  
最大光强角度:  $C=90.0 \gamma=25.0$   
半峰边角(50%Imax): [C0/180]Total=107.1  
                          [C90/270]Total=107.4  
光束扩散角(10%Imax): [C0/180]Total=131.1  
                          [C90/270]Total=133.6  
最大允许距高比(1/2): C0\_180=1.50 C90\_270=1.50  
最大允许距高比(1/4): C0\_180=2.14 C90\_270=1.48  
上射光通比(%): 0.00%  
下射光通比(%): 100.00%  
上射光通比(占灯具): --  
下射光通比(占灯具): 100.00%  
CIE Type: 直接型  
 $\pi$ 立体角内输出光通量比: 92.619%

深圳万景华分布光度计测试报告 工矿灯GT-240

环带光通分布数据表

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$\gamma(^{\circ})$	平均光强(cd)	环带光通(lm)	累积光通(lm)	有效光通(%)	有效累计(%)
0.0	7813.197	.000	.000	.000%	.000%
5.0	7828.427	186.991	186.991	.860%	.860%
10.0	7763.971	557.789	744.780	2.564%	3.424%
15.0	7716.264	918.277	1663.057	4.221%	7.645%
20.0	7917.818	1288.468	2951.525	5.923%	13.568%
25.0	8733.690	1746.436	4697.961	8.028%	21.596%
30.0	8074.162	2127.048	6825.009	9.778%	31.374%
35.0	7785.409	2335.433	9160.442	10.736%	42.110%
40.0	7012.490	2468.917	11629.360	11.349%	53.459%
45.0	6151.374	2437.396	14066.760	11.205%	64.664%
50.0	5096.198	2272.736	16339.490	10.448%	75.112%
55.0	4207.246	2022.878	18362.370	9.299%	84.411%
60.0	3518.592	1785.805	20148.180	8.209%	92.620%
65.0	1444.086	1206.436	21354.610	5.546%	98.166%
70.0	22.194	371.272	21725.880	1.707%	99.872%
75.0	13.636	9.365	21735.250	.043%	99.915%
80.0	10.525	6.465	21741.710	.030%	99.945%
85.0	9.574	5.461	21747.170	.025%	99.970%
90.0	14.522	6.598	21753.770	.030%	100.001%

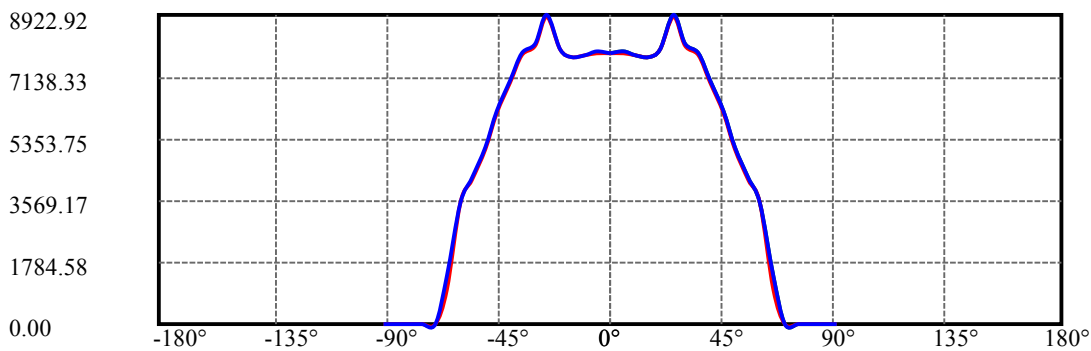
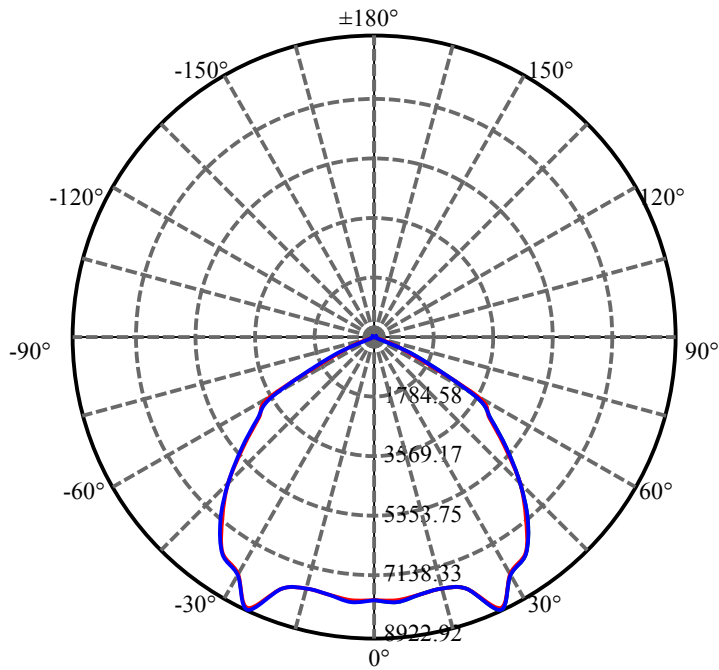
## ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	6825.01	31.37%	31.37%
0-40	11629.36	53.46%	53.46%
0-60	20148.18	92.62%	92.62%
0-90	21747.17	99.97%	99.97%
0-120	21747.17	99.97%	99.97%
0-180	21753.77	100.00%	100.00%
60-90	3384.81	15.56%	15.56%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-52.63	17403.02	80.00%	80.00%

## ZONAL LUMEN SUMMARY

0-10	744.78
10-20	2206.75
20-30	3873.48
30-40	4804.35
40-50	4710.13
50-60	3808.68
60-70	1577.71
70-80	15.83
80-90	5.46
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

光强分布曲线 [单位:cd]



C90(Max): ——

C0/C180: ——

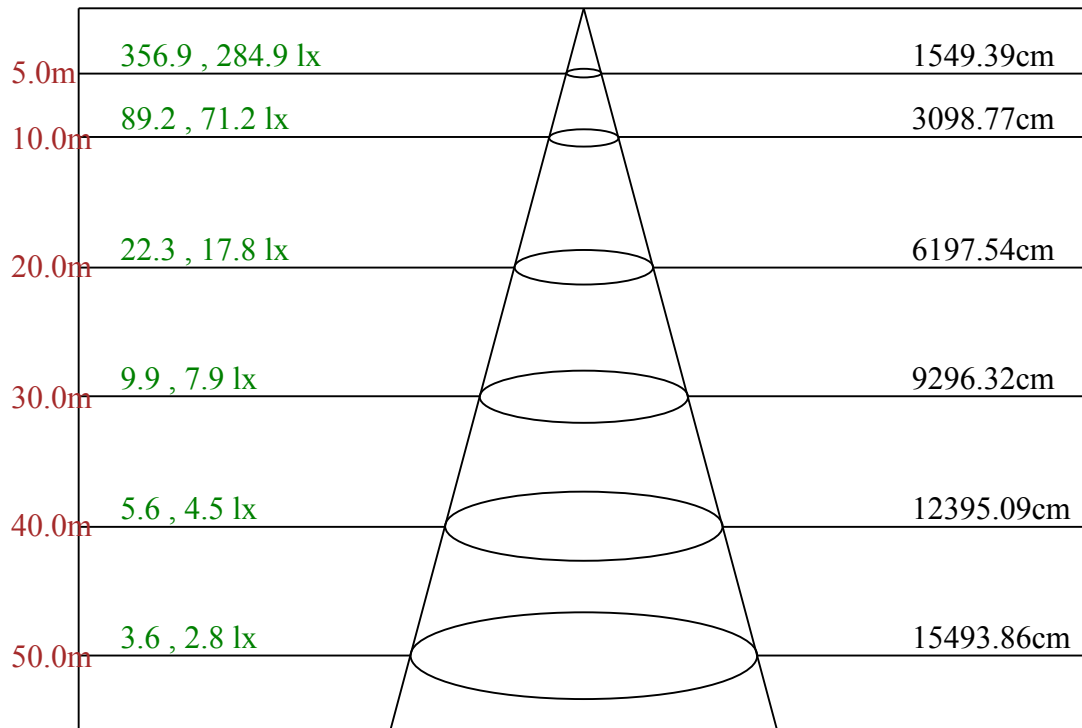
C90/C270: ——

光束扩散角(10%Imax):C0/180Left:90.5 Right:40.5

:C90/270Left:91.8 Right:41.8

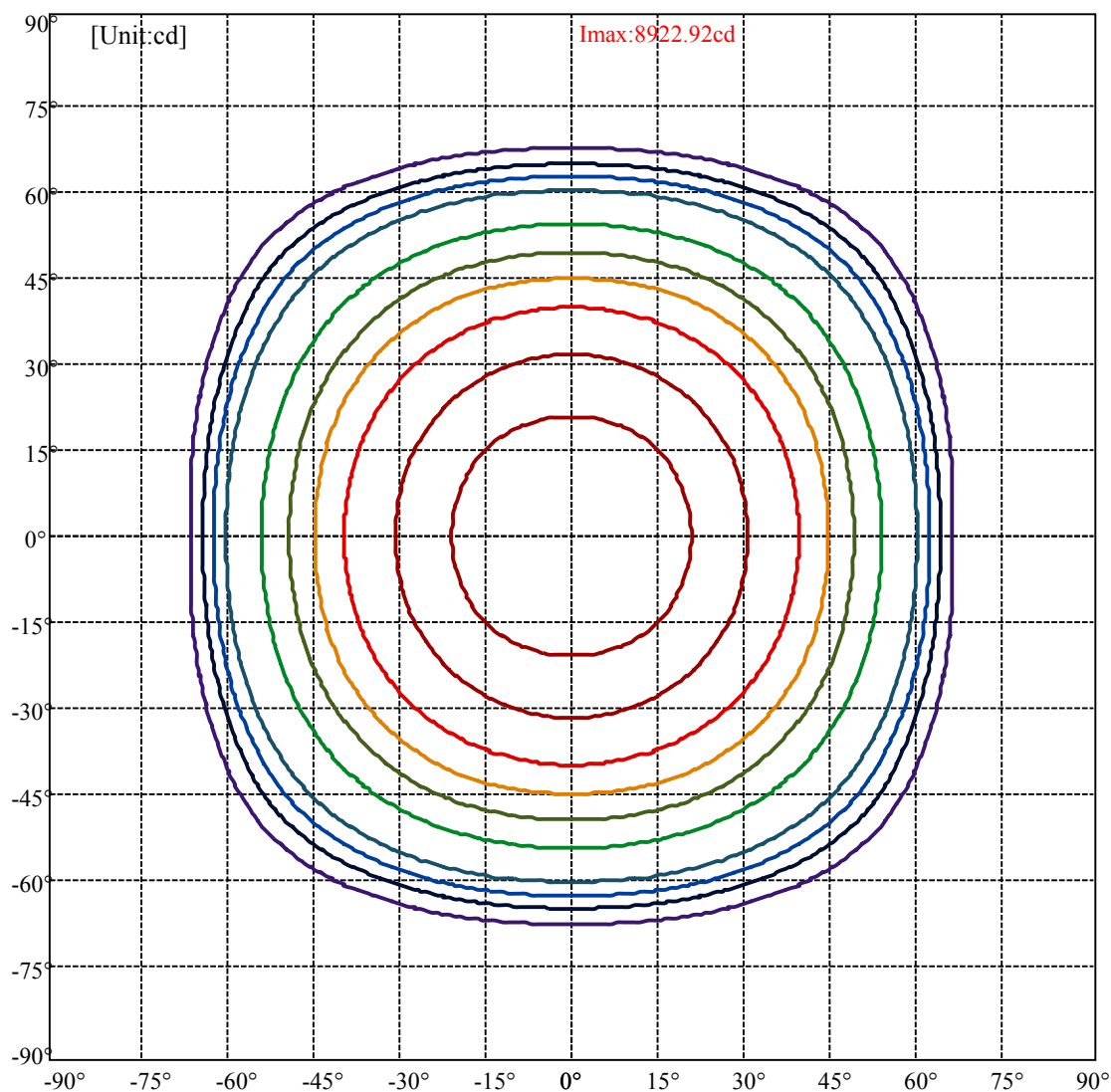
半峰边角(50%Imax):C0/180Left:78.5 Right:28.5

:C90/270Left:78.7 Right:28.7



Max , Ave      C90面光束角114.32

矩形等光强曲线



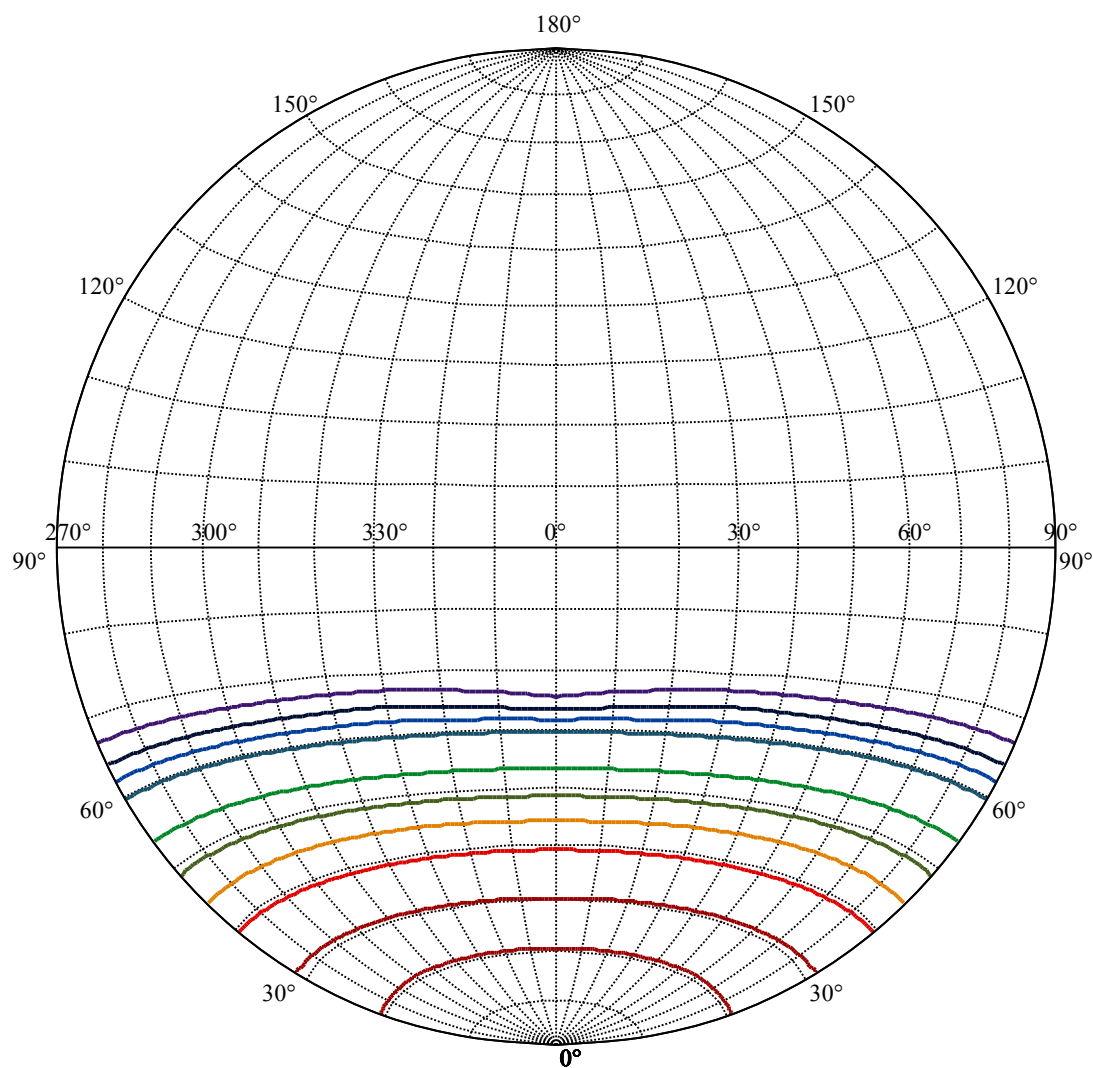
(10%Imax) 892.292	—
(20%Imax) 1784.58	—
(30%Imax) 2676.87	—
(40%Imax) 3569.17	—
(50%Imax) 4461.46	—
(60%Imax) 5353.75	—
(70%Imax) 6246.04	—
(80%Imax) 7138.33	—
(90%Imax) 8030.62	—

测试设备: 浙大三色GMS-1800  
环境温度(°C): 25.0

测试日期: 2015/12/4  
环境湿度(%): 65.0%

测试人员: 高敏  
测试距离(m): 9.83

圆形等光强曲线



屋边

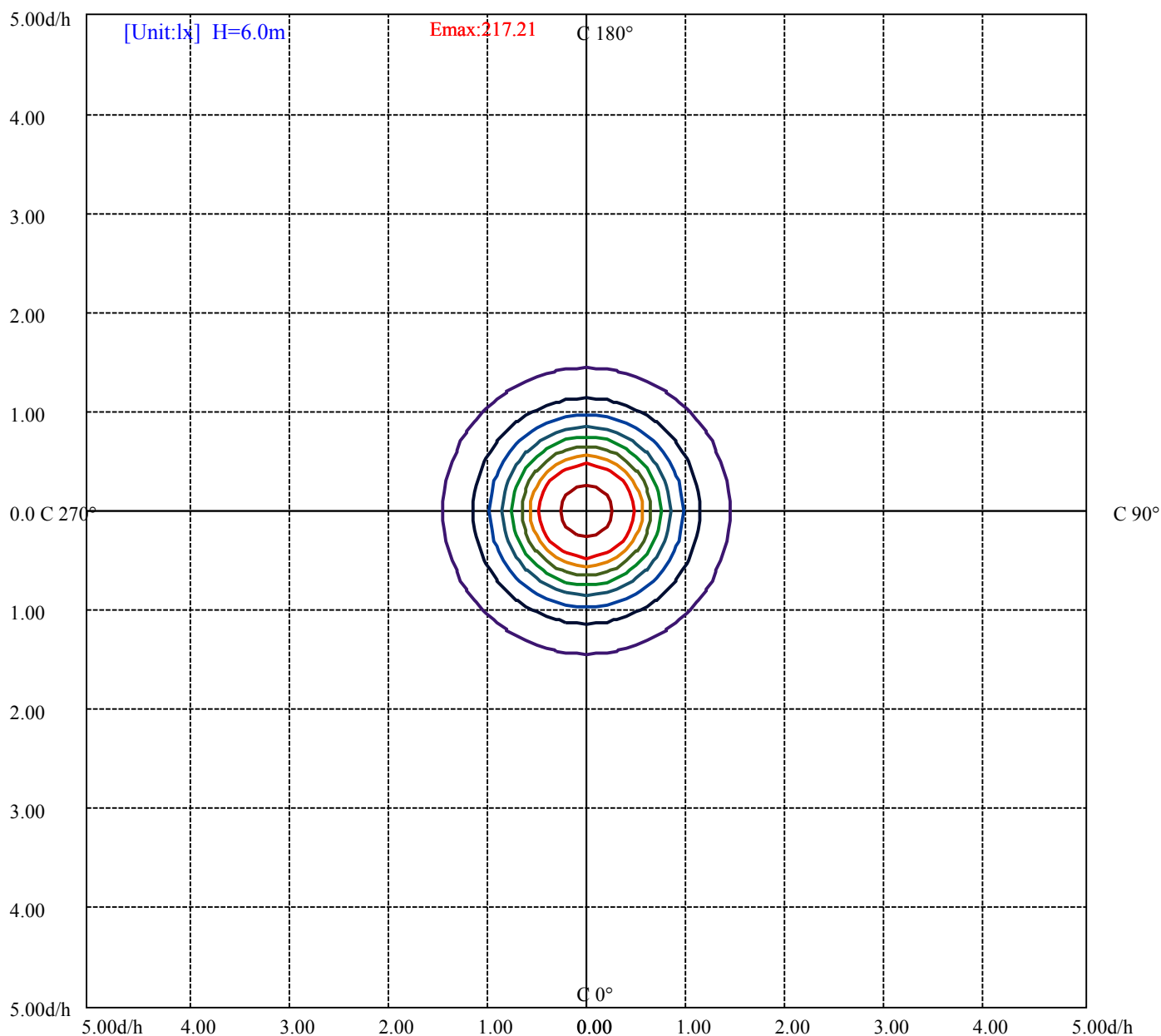
[单位: cd]

路边

**Imax:8922.92**

(10%Imax) 892.292	—
(20%Imax) 1784.58	—
(30%Imax) 2676.87	—
(40%Imax) 3569.17	—
(50%Imax) 4461.46	—
(60%Imax) 5353.75	—
(70%Imax) 6246.04	—
(80%Imax) 7138.33	—
(90%Imax) 8030.62	—

平面等照度曲线



(10%Emax) 21.72078	—
(20%Emax) 43.44167	—
(30%Emax) 65.16222	—
(40%Emax) 86.88306	—
(50%Emax) 108.6039	—
(60%Emax) 130.3247	—
(70%Emax) 152.0456	—
(80%Emax) 173.7664	—
(90%Emax) 195.4872	—

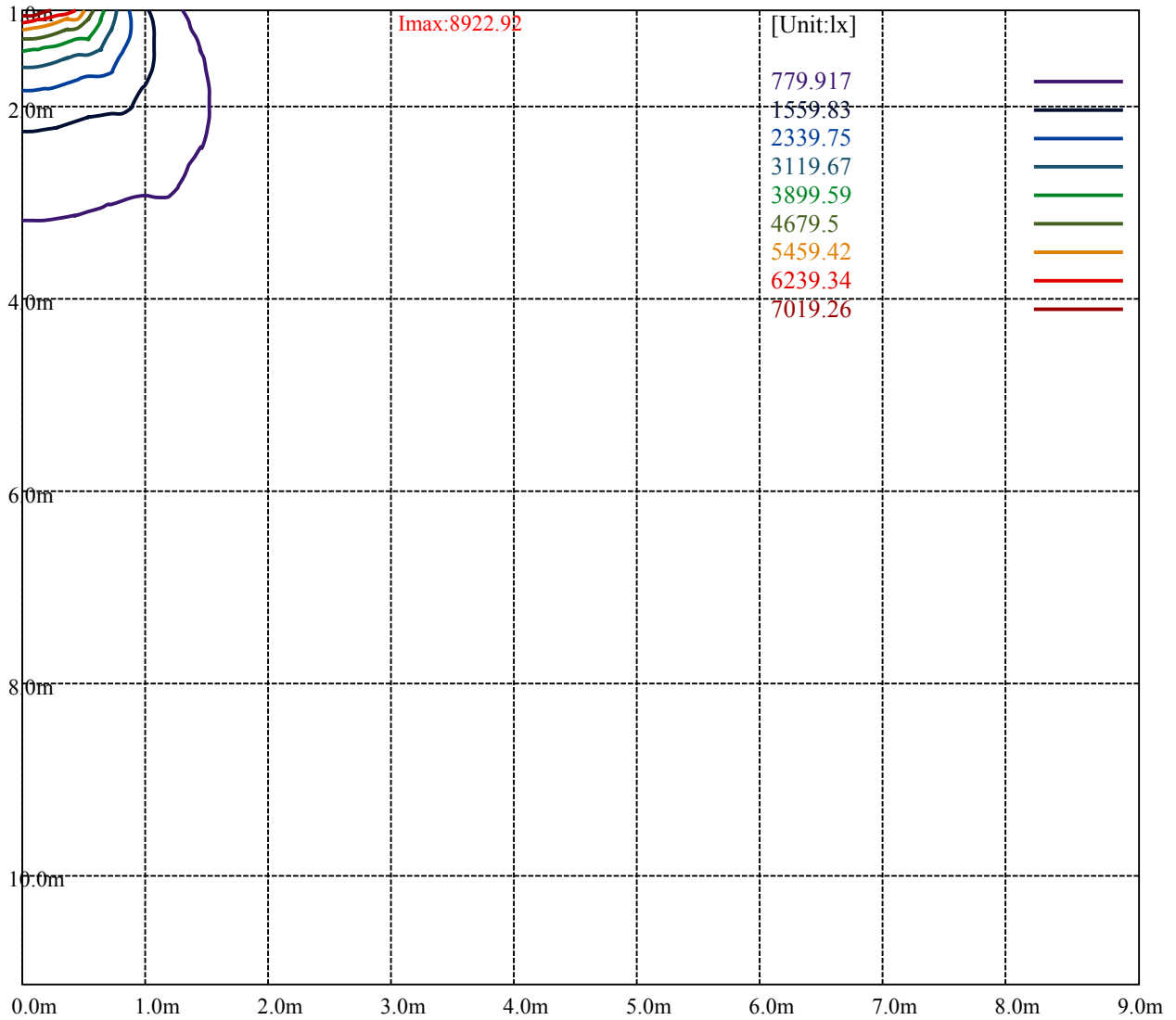
测试设备: 浙大三色GMS-1800  
环境温度(°C): 25.0

测试日期: 2015/12/4  
环境湿度(%): 65.0%

测试人员: 高敏  
测试距离(m): 9.83



空间等照度曲线



亮度值表

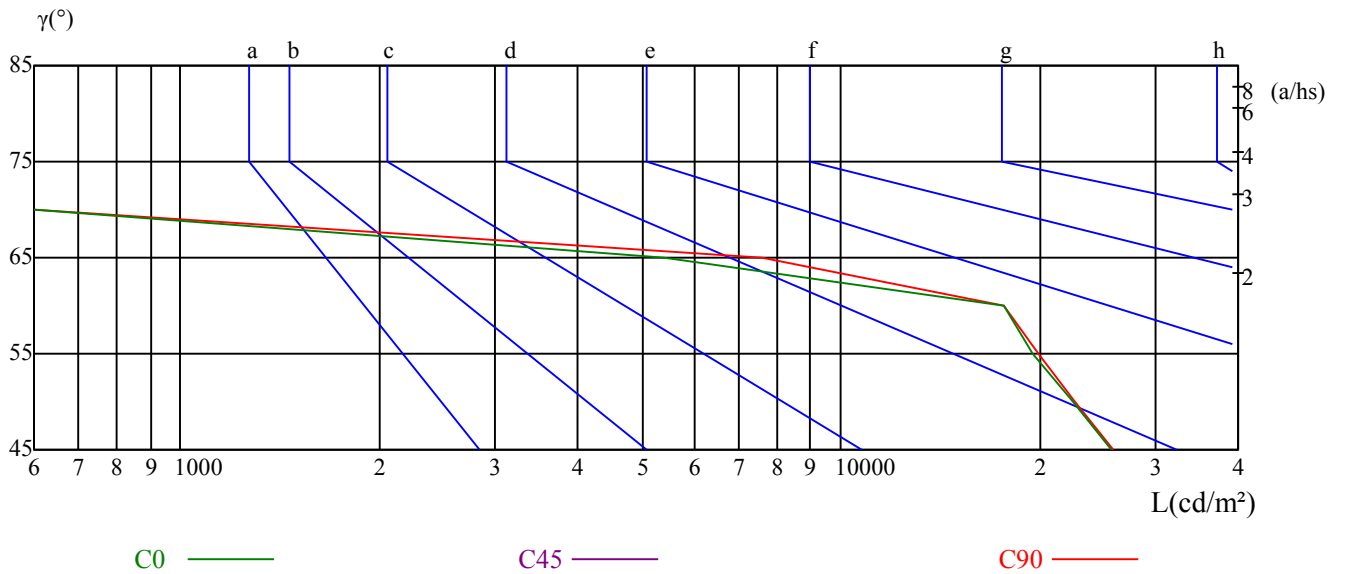
$\gamma$	45	50	55	60	65	70	75	80	85
C0	25792	22451	19554	17710	5407	126	92	82	91
C45	0	0	0	0	0	0	0	0	0
C90	25862	22639	19887	17674	7585	133	91	83	89

L横(65)	L纵(65)	L45(65)	L横(75)	L纵(75)	L45(75)	L横(85)	L纵(85)	L45(85)
9350	13115	0	209	206	0	444	435	0

眩光等级表

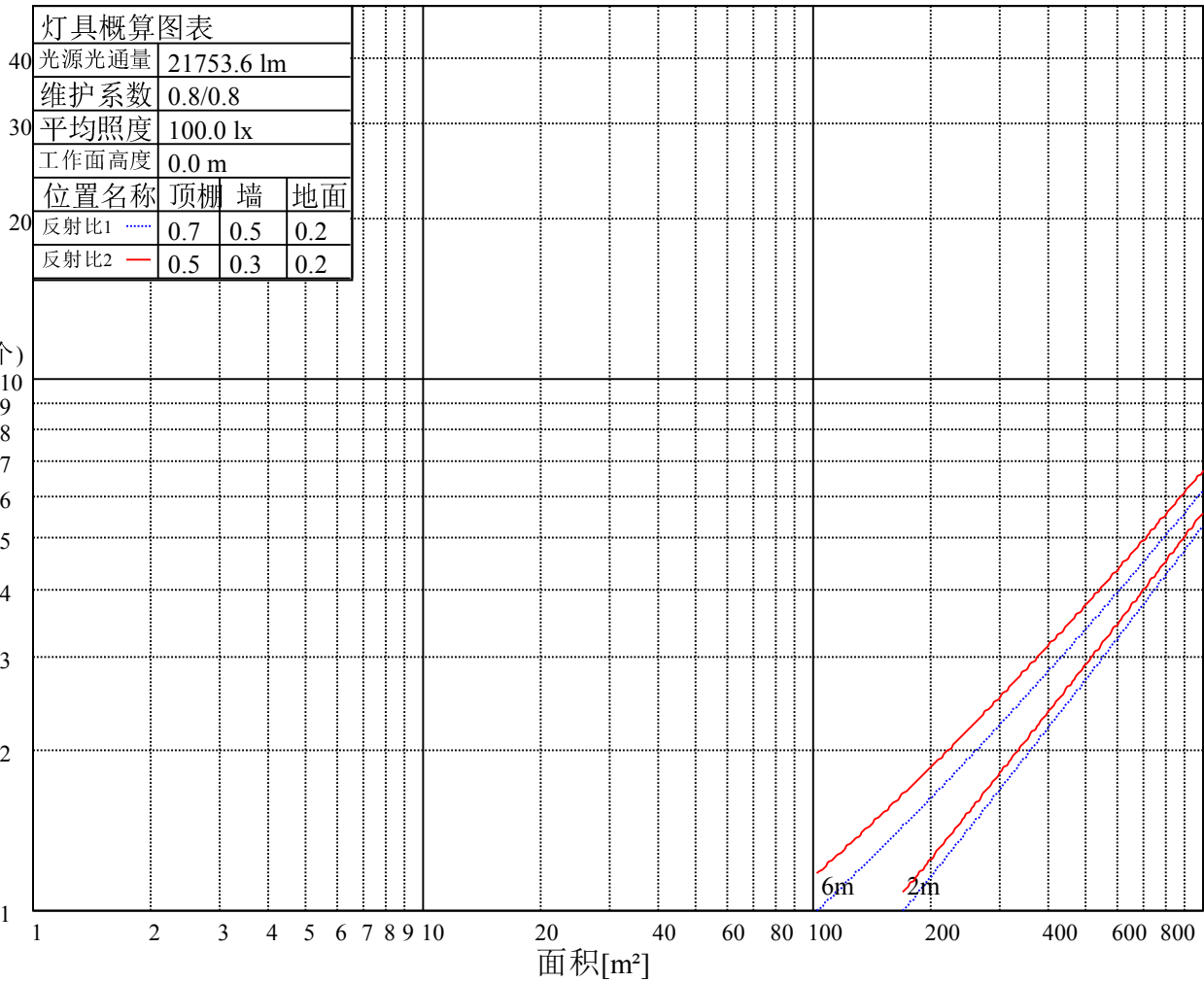
眩光等级	质量等级	使用照度(lx)							
		a	b	c	d	e	f	g	h
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300

亮度限制曲线



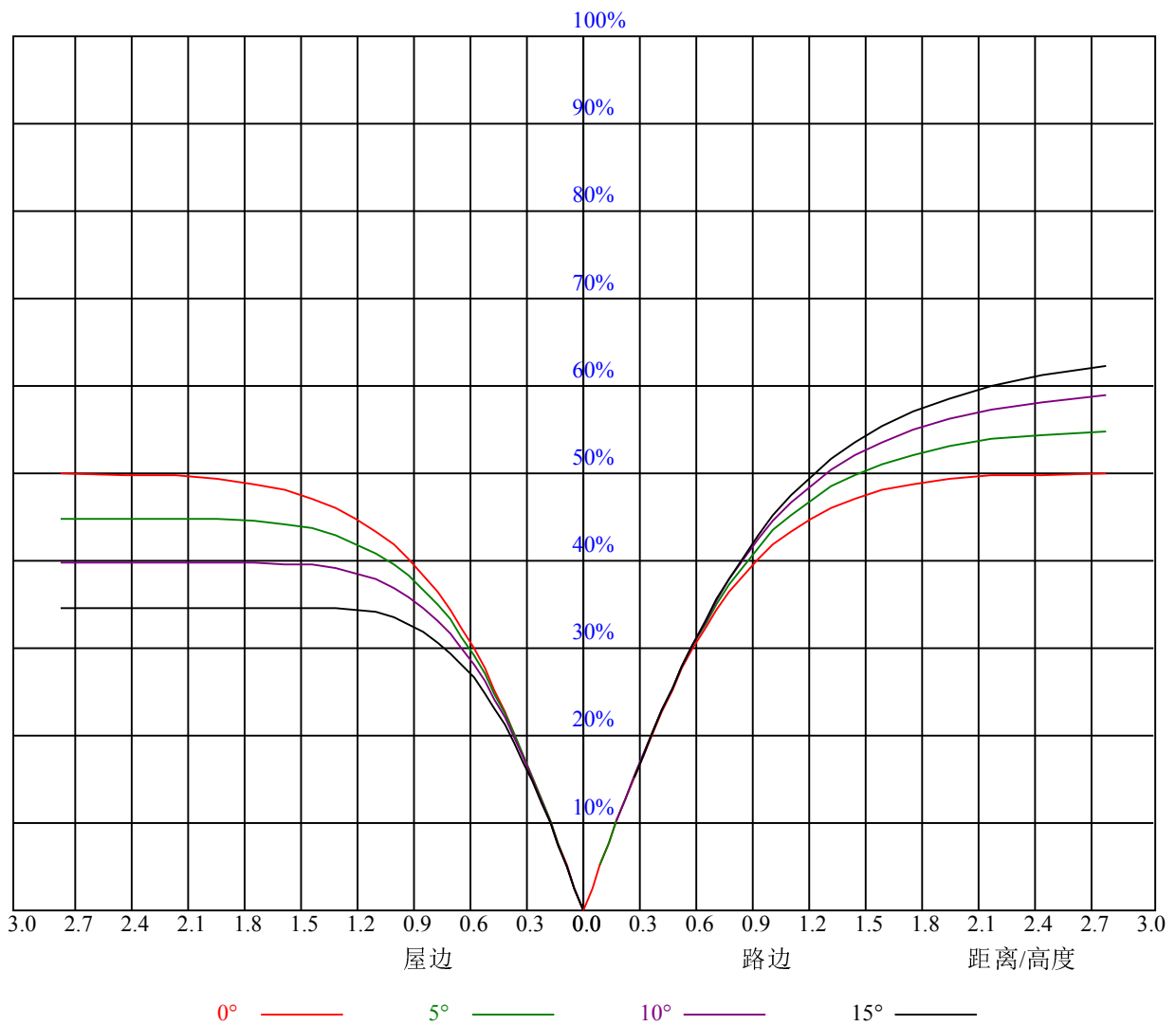
参照UGR的照射评估											
天花板反射率	70	70	50	50	30	70	70	50	50	30	
墙壁反射率	50	30	50	30	30	50	30	50	30	30	
地板反射率	20	20	20	20	20	20	20	20	20	20	
空间尺寸		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	17.0	18.3	17.3	18.5	18.7	17.0	18.2	17.3	18.5	18.7
	3H	17.0	18.1	17.4	18.4	18.7	16.9	18.0	17.3	18.3	18.6
	4H	16.8	17.8	17.2	18.1	18.4	16.7	17.7	17.1	18.0	18.3
	6H	16.8	17.8	17.2	18.1	18.4	16.7	17.7	17.1	18.0	18.3
	8H	16.8	17.8	17.2	18.1	18.4	16.7	17.7	17.1	18.0	18.3
	12H	16.7	17.3	17.1	17.7	18.1	16.6	17.2	17.0	17.6	18.0
4H	2H	17.1	18.0	17.5	18.4	18.7	17.1	18.0	17.5	18.3	18.7
	3H	17.1	17.8	17.6	18.2	18.6	17.1	17.7	17.5	18.1	18.5
	4H	17.1	17.8	17.6	18.2	18.6	17.1	17.7	17.5	18.1	18.5
	6H	17.1	17.8	17.6	18.2	18.6	17.1	17.7	17.5	18.1	18.5
	8H	17.0	17.3	17.5	17.8	18.3	16.9	17.3	17.4	17.7	18.2
	12H	17.0	17.3	17.5	17.8	18.3	16.9	17.3	17.4	17.7	18.2
8H	4H	17.0	17.3	17.5	17.8	18.3	16.9	17.3	17.4	17.7	18.2
	6H	17.0	17.3	17.5	17.8	18.3	16.9	17.3	17.4	17.7	18.2
	8H	17.0	17.3	17.5	17.8	18.3	16.9	17.3	17.4	17.7	18.2
	12H	17.0	17.3	17.5	17.8	18.3	16.9	17.3	17.4	17.7	18.2
12H	4H	17.0	17.3	17.5	17.8	18.3	16.9	17.3	17.4	17.7	18.2
	6H	17.0	17.3	17.5	17.8	18.3	16.9	17.3	17.4	17.7	18.2
	8H	17.0	17.3	17.5	17.8	18.3	16.9	17.3	17.4	17.7	18.2
对应照射距离，改变观察者位置S											
S = 1.0H	0.6/-0.6					0.7/-0.6					
S = 1.5H	1.0/-2.1					1.0/-2.3					
S = 2.0H	3.4/-11.1					3.4/-11.0					
标准表格	BK1					BK1					
更正系数	4.9					4.8					

灯具的概算曲线



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	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.07	1.04	1.01	1.05	1.02	0.99	1.01	0.98	0.96	0.97	0.95	0.93	0.94	0.92	0.90	0.88
2	0.96	0.90	0.85	0.94	0.88	0.84	0.90	0.86	0.82	0.87	0.83	0.80	0.84	0.81	0.78	0.77
3	0.85	0.78	0.72	0.83	0.77	0.72	0.81	0.75	0.70	0.78	0.73	0.69	0.76	0.71	0.68	0.66
4	0.76	0.68	0.62	0.75	0.67	0.62	0.72	0.66	0.61	0.70	0.64	0.60	0.68	0.63	0.59	0.57
5	0.68	0.60	0.54	0.67	0.59	0.53	0.65	0.58	0.53	0.63	0.57	0.52	0.61	0.56	0.52	0.50
6	0.61	0.53	0.47	0.60	0.53	0.47	0.59	0.52	0.46	0.57	0.51	0.46	0.56	0.50	0.46	0.44
7	0.56	0.47	0.42	0.55	0.47	0.41	0.53	0.46	0.41	0.52	0.46	0.41	0.51	0.45	0.41	0.39
8	0.51	0.43	0.37	0.50	0.42	0.37	0.49	0.42	0.37	0.48	0.41	0.37	0.46	0.41	0.36	0.35
9	0.47	0.39	0.33	0.46	0.38	0.33	0.45	0.38	0.33	0.44	0.37	0.33	0.43	0.37	0.33	0.31
10	0.43	0.35	0.30	0.42	0.35	0.30	0.41	0.35	0.30	0.40	0.34	0.30	0.40	0.34	0.30	0.28

路灯利用系数曲线



深圳万景华分布光度计测试报告 工矿灯GT-240

光强数据表(cd)

第 15页 共15页

C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	7799.17	7813.68	7759.52	7703.92	7912.81	8859.09	8044.33	7778.87	7006.17
30.0	7816.58	7820.45	7765.81	7718.23	7909.42	8752.71	8058.35	7779.35	6999.69
60.0	7822.38	7835.44	7769.48	7723.26	7928.09	8557.36	8087.65	7772.87	7008.88
90.0	7807.88	7845.11	7753.72	7710.69	7919.09	8922.92	8108.64	7829.15	7051.63
120.0	7827.22	7835.44	7769.48	7723.26	7928.09	8557.36	8087.65	7772.87	7008.88
150.0	7805.94	7820.45	7765.81	7718.23	7909.42	8752.71	8058.35	7779.35	6999.69
180.0	7799.17	7813.68	7759.52	7703.92	7912.81	8859.09	8044.33	7778.87	7006.17
210.0	7816.58	7820.45	7765.81	7718.23	7909.42	8752.71	8058.35	7779.35	6999.69
240.0	7822.38	7835.44	7769.48	7723.26	7928.09	8557.36	8087.65	7772.87	7008.88
270.0	7807.88	7845.11	7753.72	7710.69	7919.09	8922.92	8108.64	7829.15	7051.63
300.0	7827.22	7835.44	7769.48	7723.26	7928.09	8557.36	8087.65	7772.87	7008.88
330.0	7805.94	7820.45	7765.81	7718.23	7909.42	8752.71	8058.35	7779.35	6999.69
360.0	7799.17	7813.68	7759.52	7703.92	7912.81	8859.09	8044.33	7778.87	7006.17
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	6109.69	5069.60	4165.39	3517.45	987.87	20.89	13.54	10.44	9.67
30.0	6168.20	5074.44	4194.21	3518.90	1658.24	22.63	13.73	10.54	9.67
60.0	6168.01	5123.28	4226.60	3523.06	1487.27	22.53	13.73	10.54	9.48
90.0	6126.13	5112.15	4236.47	3510.19	1385.63	21.95	13.35	10.54	9.48
120.0	6168.01	5123.28	4226.60	3523.06	1487.27	22.53	13.73	10.54	9.48
150.0	6168.20	5074.44	4194.21	3518.90	1658.24	22.63	13.73	10.54	9.67
180.0	6109.69	5069.60	4165.39	3517.45	987.87	20.89	13.54	10.44	9.67
210.0	6168.20	5074.44	4194.21	3518.90	1658.24	22.63	13.73	10.54	9.67
240.0	6168.01	5123.28	4226.60	3523.06	1487.27	22.53	13.73	10.54	9.48
270.0	6126.13	5112.15	4236.47	3510.19	1385.63	21.95	13.35	10.54	9.48
300.0	6168.01	5123.28	4226.60	3523.06	1487.27	22.53	13.73	10.54	9.48
330.0	6168.20	5074.44	4194.21	3518.90	1658.24	22.63	13.73	10.54	9.67
360.0	6109.69	5069.60	4165.39	3517.45	987.87	20.89	13.54	10.44	9.67
C/γ(°)	90.0								
0.0	14.51								
30.0	14.51								
60.0	14.51								
90.0	14.60								
120.0	14.51								
150.0	14.51								
180.0	14.51								
210.0	14.51								
240.0	14.51								
270.0	14.60								
300.0	14.51								
330.0	14.51								
360.0	14.51								