

浙大三色

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ROLED

灯具名称: 投光灯

灯具描述: F1214A1-18-36DC-RC-Y(45-CL-18RGBWN-AJ, CT)

报告编号:

电压(V): 35.8000

测试编号: 20210419003

电流(A): 0.8880

光源规格型号: CL

功率(W): 31.8000

每个光源光通量(lm)

功率因数: 1.0350

光源数量: 18

镇流器型号:

发光面长度(mm): 162

发光面宽度(mm): 162

测试模式: C

发光面高度(mm): 0

光度结果

灯具光通量(lm): 1461.94

灯具效能(lm/w): 45.97

中心光强(cd): 1526.464

最大光强(cd): 1534.752

最大光强角度: $C=30.0$ $\gamma=0.0$

半峰边角(50%Imax): [C0/180]Total=49.4

[C90/270]Total=49.4

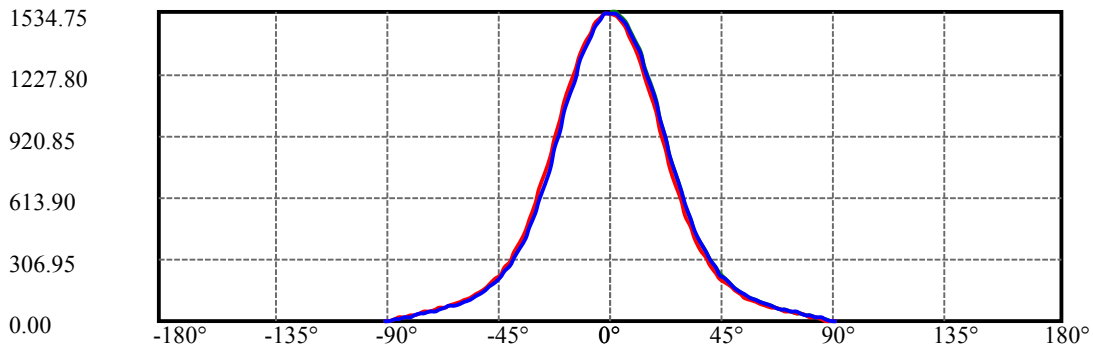
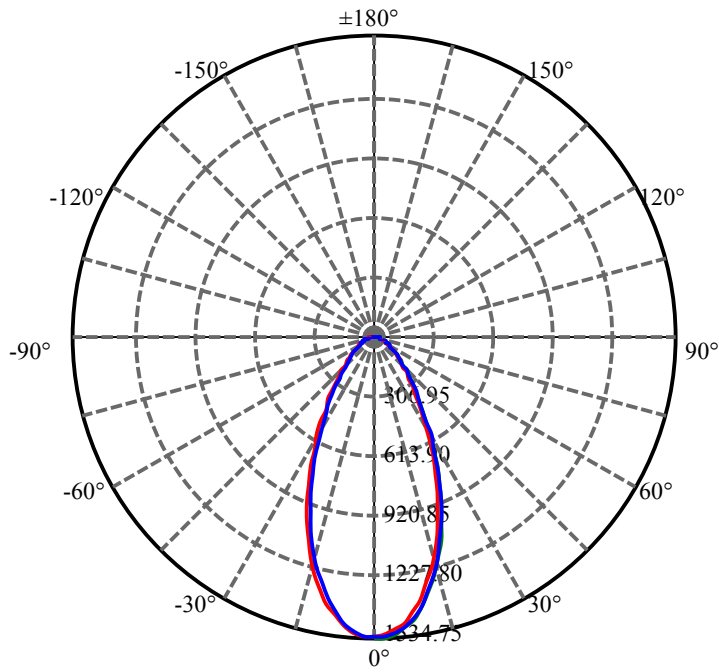
光束扩散角(10%Imax): [C0/180]Total=100.8

[C90/270]Total=100.9

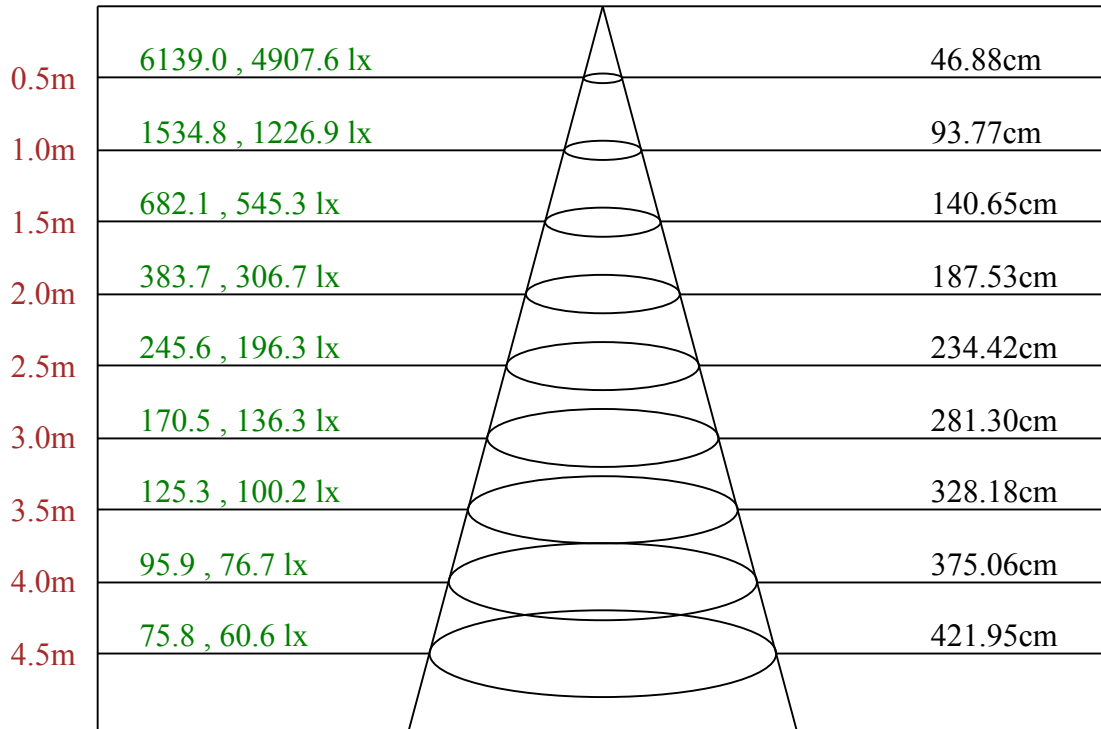
测试设备: GMS1800
环境温度(°C): 25.0

测试日期: 2021/4/19
环境湿度(%): 60.0%

测试人员: anpeilou
测试距离(m): 8.76

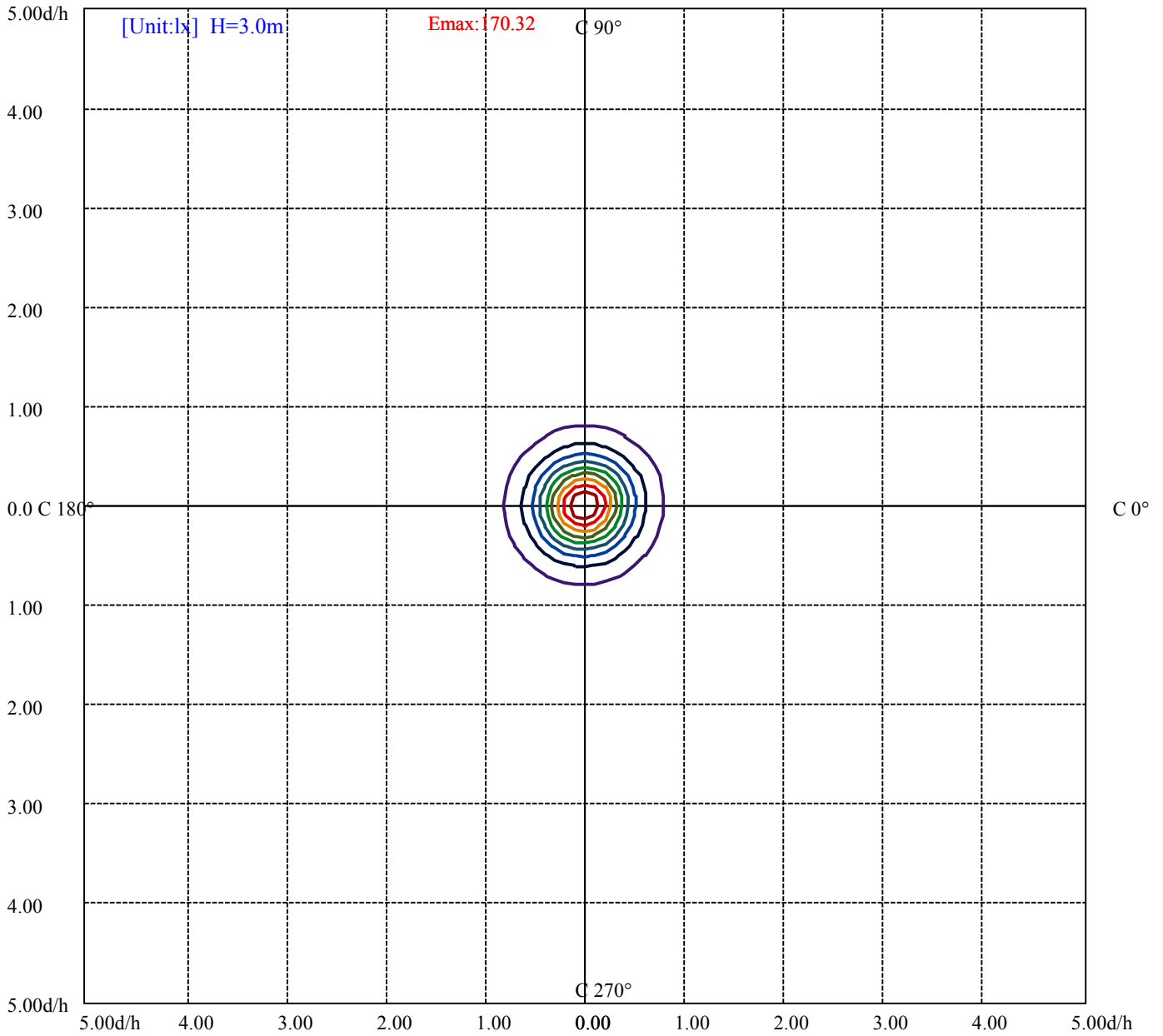


C30(Max): ————
C0/C180: ————
C90/C270: ————



Max , Ave C30面光束角50.24

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平面等照度曲线



- (10%Emax) 17.03144
- (20%Emax) 34.063
- (30%Emax) 51.09444
- (40%Emax) 68.12589
- (50%Emax) 85.15744
- (60%Emax) 102.1889
- (70%Emax) 119.22
- (80%Emax) 136.2522
- (90%Emax) 153.2833

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环境湿度(%): 60.0%

测试人员: anpeilou
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灯具的亮度限制曲线(灯具无发光侧边)

亮度值表

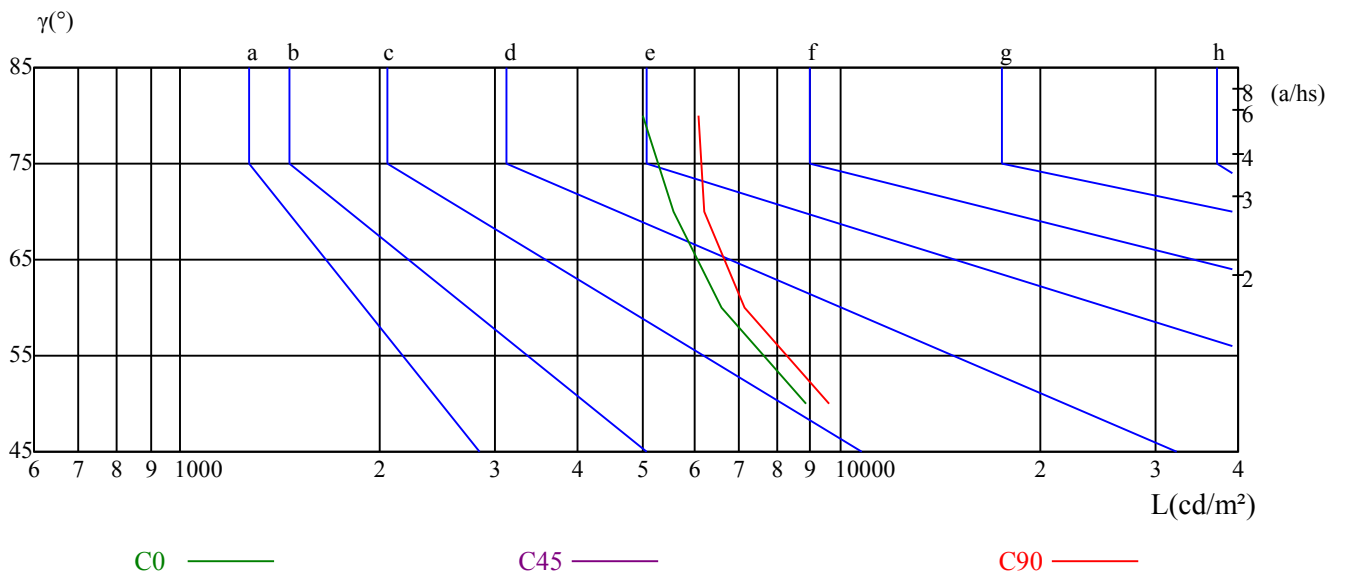
γ	45	50	55	60	65	70	75	80	85
C0	0	8884	0	6602	0	5574	0	5018	0
C45	0	0	0	0	0	0	0	0	0
C90	0	9621	0	7140	0	6207	0	6079	0

L横(65)	L纵(65)	L45(65)	L横(75)	L纵(75)	L45(75)	L横(85)	L纵(85)	L45(85)
0	0	0	0	0	0	0	0	0

眩光等级表

眩光等级	质量等级	使用照度(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

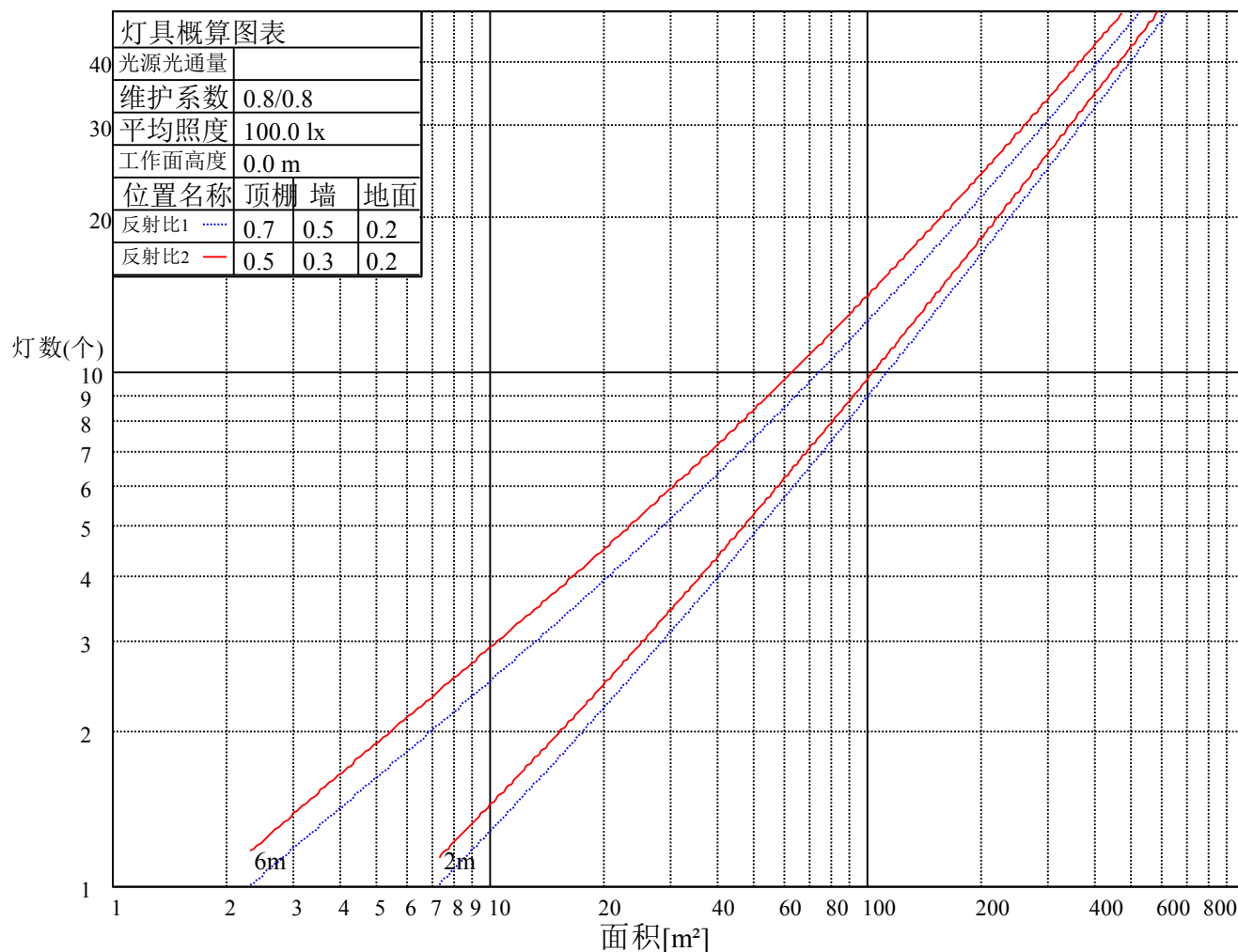
亮度限制曲线



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	15.34	16.61	15.71	16.92	17.24	15.34	16.61	15.71	16.92	17.24
	3H	16.83	17.95	17.21	18.29	18.65	16.82	17.94	17.20	18.27	18.64
	4H	17.45	18.51	17.86	18.86	19.24	17.43	18.48	17.83	18.83	19.21
	6H	17.97	18.93	18.38	19.31	19.70	17.93	18.89	18.34	19.27	19.66
	8H	18.14	19.06	18.57	19.45	19.85	18.10	19.01	18.53	19.40	19.81
	12H	18.35	19.22	18.78	19.60	20.03	18.30	19.17	18.73	19.55	19.98
4H	2H	15.79	16.84	16.19	17.19	17.57	15.79	16.84	16.19	17.19	17.57
	3H	17.50	18.37	17.92	18.77	19.18	17.51	18.38	17.92	18.78	19.18
	4H	18.27	19.04	18.70	19.46	19.91	18.26	19.04	18.70	19.46	19.90
	6H	18.81	19.48	19.27	19.93	20.39	18.79	19.46	19.25	19.91	20.38
	8H	19.04	19.67	19.51	20.11	20.59	19.02	19.65	19.49	20.09	20.56
	12H	19.26	19.82	19.75	20.30	20.78	19.24	19.79	19.72	20.27	20.75
8H	4H	18.53	19.15	19.00	19.60	20.07	18.52	19.15	18.99	19.59	20.07
	6H	19.22	19.73	19.72	20.23	20.71	19.21	19.72	19.71	20.22	20.70
	8H	19.53	19.99	20.06	20.51	21.00	19.52	19.98	20.04	20.49	20.99
	12H	20.22	20.62	20.74	21.12	21.69	20.21	20.61	20.72	21.10	21.67
12H	4H	18.54	19.10	19.03	19.58	20.05	18.54	19.09	19.02	19.57	20.05
	6H	19.85	19.74	19.81	20.20	20.75	19.84	19.73	19.80	20.19	20.74
	8H	19.64	20.04	20.16	20.54	21.11	19.63	20.03	20.15	20.53	21.10
对应照射距离，改变观察者位置S											
S = 1.0H	0.5/-0.8					0.5/-0.9					
S = 1.5H	1.0/-1.1					1.1/-1.2					
S = 2.0H	2.2/-1.2					2.2/-1.4					
标准表格	BK3					BK3					
更正系数	3.0					2.7					

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灯具的概算曲线



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灯具的利用系数表

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	1.08	1.05	1.02	1.06	1.03	1.01	1.02	1.00	0.97	0.98	0.96	0.94	0.95	0.93	0.92	0.90
2	0.98	0.93	0.89	0.97	0.92	0.88	0.93	0.89	0.86	0.90	0.87	0.84	0.87	0.85	0.82	0.81
3	0.90	0.84	0.79	0.89	0.83	0.78	0.86	0.81	0.77	0.83	0.79	0.76	0.81	0.77	0.74	0.73
4	0.83	0.76	0.71	0.82	0.75	0.70	0.79	0.74	0.70	0.77	0.72	0.69	0.75	0.71	0.68	0.66
5	0.76	0.69	0.64	0.75	0.69	0.64	0.74	0.68	0.63	0.72	0.67	0.63	0.70	0.66	0.62	0.60
6	0.71	0.64	0.59	0.70	0.63	0.59	0.68	0.63	0.58	0.67	0.62	0.58	0.66	0.61	0.57	0.56
7	0.66	0.59	0.54	0.65	0.59	0.54	0.64	0.58	0.54	0.63	0.57	0.53	0.62	0.57	0.53	0.52
8	0.62	0.55	0.50	0.61	0.55	0.50	0.60	0.54	0.50	0.59	0.54	0.50	0.58	0.53	0.49	0.48
9	0.58	0.51	0.47	0.58	0.51	0.47	0.57	0.51	0.47	0.56	0.50	0.46	0.55	0.50	0.46	0.45
10	0.55	0.48	0.44	0.54	0.48	0.44	0.53	0.48	0.44	0.53	0.47	0.44	0.52	0.47	0.43	0.42

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光强数据表(cd)

附页 第9页 共10页

C/γ(°)	0.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0
0.0	1526.46	1516.80	1494.00	1459.78	1412.05	1355.19	1281.98	1207.85	1120.83
30.0	1534.75	1530.92	1514.03	1485.64	1447.27	1393.55	1330.63	1261.57	1177.92
60.0	1530.92	1531.61	1517.26	1488.33	1445.58	1394.86	1331.09	1260.49	1177.38
90.0	1527.85	1525.54	1507.89	1479.50	1440.36	1385.88	1323.72	1251.59	1175.62
120.0	1524.78	1528.23	1508.66	1477.35	1431.54	1376.52	1310.68	1234.71	1156.21
150.0	1528.38	1526.08	1510.43	1479.81	1436.37	1380.82	1319.27	1246.22	1164.80
180.0	1526.46	1523.01	1506.21	1476.43	1433.77	1382.04	1319.12	1246.45	1170.02
210.0	1534.75	1531.53	1514.57	1482.49	1440.36	1384.73	1322.88	1247.52	1163.73
240.0	1530.92	1525.54	1504.82	1473.36	1429.62	1378.21	1309.14	1238.54	1154.13
270.0	1527.85	1524.16	1499.53	1462.39	1414.81	1353.65	1283.67	1204.47	1122.82
300.0	1524.78	1513.27	1490.24	1451.11	1401.23	1341.37	1270.01	1190.20	1104.25
330.0	1528.38	1516.80	1490.01	1449.96	1399.69	1335.00	1262.33	1180.68	1097.65
360.0	1526.46	1516.80	1494.00	1459.78	1412.05	1355.19	1281.98	1207.85	1120.83
C/γ(°)	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0
0.0	1035.34	944.56	850.48	765.76	680.89	599.24	527.49	465.72	406.10
30.0	1094.28	999.12	909.34	815.72	732.84	649.20	571.70	505.70	442.78
60.0	1089.83	997.44	908.50	817.49	728.78	648.89	572.77	503.01	440.32
90.0	1088.91	999.12	907.81	817.26	734.38	650.73	578.60	507.24	444.31
120.0	1069.80	980.09	889.39	805.51	719.72	641.91	566.94	497.95	435.87
150.0	1082.77	995.21	904.66	820.32	734.15	651.96	579.29	509.38	446.23
180.0	1085.07	996.21	905.35	820.79	733.53	654.57	578.22	508.00	444.69
210.0	1076.86	989.61	896.37	810.89	723.41	640.53	568.93	495.65	437.48
240.0	1066.65	981.47	887.85	803.44	713.66	634.62	560.18	495.72	432.80
270.0	1034.50	942.03	854.55	767.07	681.12	605.00	533.48	466.64	411.16
300.0	1019.08	929.29	837.21	755.10	672.22	592.41	521.82	461.96	402.11
330.0	1008.03	915.33	828.23	741.52	657.49	579.68	513.53	449.15	392.59
360.0	1035.34	944.56	850.48	765.76	680.89	599.24	527.49	465.72	406.10
C/γ(°)	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0
0.0	355.99	314.09	274.49	241.72	213.02	188.85	167.44	149.87	133.06
30.0	388.29	341.02	301.04	264.21	234.05	206.42	182.41	162.53	143.42
60.0	388.52	340.18	300.04	263.67	232.05	204.51	182.02	161.46	143.35
90.0	390.59	343.32	300.58	263.67	233.44	205.81	183.10	162.30	144.42
120.0	384.30	336.19	294.14	260.06	228.68	201.82	178.57	159.46	141.73
150.0	393.13	344.01	301.04	264.13	233.74	206.12	182.41	162.76	144.80
180.0	392.05	342.86	300.12	265.05	233.05	205.35	181.64	162.15	144.19
210.0	383.99	337.88	295.98	260.37	230.60	203.51	180.41	159.54	142.66
240.0	389.06	336.57	294.14	258.91	228.14	201.97	179.03	160.00	141.66
270.0	360.51	314.70	277.87	244.72	215.02	190.08	169.74	150.41	134.14
300.0	356.29	312.48	273.19	240.50	213.33	187.85	166.75	149.18	132.37
330.0	346.39	302.65	267.12	233.90	206.96	183.02	163.68	145.11	129.38
360.0	355.99	314.09	274.49	241.72	213.02	188.85	167.44	149.87	133.06
C/γ(°)	54.0	56.0	58.0	60.0	62.0	64.0	66.0	68.0	70.0
0.0	119.10	106.82	96.23	86.64	78.04	70.29	62.85	56.25	50.03
30.0	128.46	114.57	102.98	92.39	83.41	74.59	67.22	60.16	53.95
60.0	128.46	114.88	102.83	92.32	83.41	74.82	67.07	60.32	53.79
90.0	128.92	115.41	104.06	93.70	84.80	76.51	68.83	61.70	55.71
120.0	126.39	113.65	101.83	91.39	82.42	74.67	67.07	60.62	54.25
150.0	129.99	116.18	104.21	93.70	84.95	76.74	69.14	62.46	56.10
180.0	129.38	115.95	104.06	93.62	84.41	76.58	68.83	62.16	55.63
210.0	127.46	113.42	102.14	91.78	82.42	74.28	67.38	60.24	54.25
240.0	126.54	113.11	101.68	91.32	81.96	73.98	66.22	59.16	52.57
270.0	120.86	108.05	97.61	88.25	79.50	71.75	64.92	58.09	51.95
300.0	118.94	105.90	95.38	85.87	77.74	69.75	62.62	56.40	49.88
330.0	116.64	104.36	93.85	84.72	76.66	69.06	62.23	55.86	50.19
360.0	119.10	106.82	96.23	86.64	78.04	70.29	62.85	56.25	50.03

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光强数据表(cd)

附页 第 10页 共10页

C/γ(°)	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0
0.0	44.58	39.06	33.46	28.24	22.87	16.81	10.67	4.14	0.31
30.0	47.88	42.13	36.68	30.77	25.32	19.64	12.74	6.68	0.84
60.0	47.88	42.13	36.45	30.62	25.40	19.49	13.20	7.14	1.23
90.0	49.73	43.97	38.60	32.84	27.70	22.02	15.73	9.67	2.84
120.0	48.34	42.74	37.37	31.85	26.55	21.33	15.50	9.52	3.38
150.0	50.19	44.66	39.29	33.69	28.47	23.10	16.88	10.74	4.68
180.0	49.65	43.97	38.52	33.00	27.47	22.41	16.58	10.74	4.30
210.0	48.34	42.36	36.83	31.23	25.63	20.11	13.89	7.60	1.69
240.0	47.04	41.36	35.68	30.39	24.94	19.34	13.28	7.06	1.15
270.0	46.58	40.82	35.38	29.24	23.79	17.80	12.05	5.37	0.46
300.0	44.66	38.98	33.61	28.16	22.71	16.88	10.74	4.60	0.46
330.0	44.58	38.06	32.69	27.32	22.02	15.73	9.59	3.38	0.31
360.0	44.58	39.06	33.46	28.24	22.87	16.81	10.67	4.14	0.31
C/γ(°)	90.0								
0.0	0.08								
30.0	0.08								
60.0	0.08								
90.0	0.15								
120.0	0.31								
150.0	0.38								
180.0	0.38								
210.0	0.08								
240.0	0.00								
270.0	0.08								
300.0	0.08								
330.0	0.00								
360.0	0.08								