

测试报告

报告编号: GZES200101035832

签发日期: 2020-01-13

以下样品由客户提交确认:

申请方: 四川蓝景光电技术有限责任公司

申请方地址: 成都市双流区西南航空港经济开发区空港二路二段 1000 号

制造商: 与申请方一致

制造商地址: 与申请方一致

检测机构: 通标标准技术服务有限公司广州分公司

地址: 广东省广州市经济技术开发区科学城科珠路 198 号

测试标准: IES LM-79-08

测试样品描述: 2835 注塑防水模组

商标/品牌: —

型号名称: ST2-HD

额定参数: 12 V DC; 60 mA; 0.72 W; 6500 K

测试结果: 见第 4 页至第 8 页

备注: 测量已考虑不确定度



Alex Tan

Alex Tan
审核

Justin Xie

Justin Xie
主检SGS-CTC Standards Technical Services Co., Ltd.
Guangzhou Branch, Testing Services, EEC Laboratory

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铭牌标志	
N/A	
测试概述: 测试样品在恒定的 12 伏直流电下测试, 测量光分布、总光通量、光效、CCT 和显色指数。	
测试样品特殊描述:	
灯头规格.....:	—
光源描述	—
额定环境温度.....:	25 °C
防尘、防固体异物和防水等级.....:	—
可能的试验情况判定: -试验情况不适用本试验产品.....: N/A (not applicable) -试验样品满足要求	
P (Pass)	
-试验样品不满足要求	
F (Fail)	
Testing 收样日期.....: 2020.01.07 测试日期.....: 2020.01.07 - 2020.01.13	
产品描述: LED 模组.	



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1 测试条件

LED 照明产品不做老化, 待测样品发光面朝下, 达到稳定之后进行即进行测量。测量期间的环境温度为 $25^{\circ}\text{C} \pm 1^{\circ}\text{C}$ 。

用已校准的 C 型 Gonio 光度计测量总光通量和光分布, 光度距离为 7.30 m。

颜色特性由经校准的 2m 积分球系统用 4π 几何系统测量, 该系统由一个积分球, 分光辐射仪和软件组成。测量在 380 至 780 nm 光波范围内, 至少间隔 5 nm 测量。积分球涂层反射率为 98%。



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2 测试结果

I) 光通量, 光效和配光

测试电压: 12 V DC
 输入电流: 0.0606 A
 总运行时间: 98 min
 稳定时间: 33 min
 功率: 0.7272 W
 总光通量: 65.76 lm
 光效: 90.4 lm/W
 光束角: H: 148.6°; V: 148.8°

区域光通量

$\gamma(^{\circ})$	Zone lumens	$\gamma(^{\circ})$	Zone lumens
0-10	1.30	90-100	0.00
10-20	3.99	100-110	0.00
20-30	6.81	110-120	0.00
30-40	9.57	120-130	0.00
40-50	11.92	130-140	0.00
50-60	13.13	140-150	0.00
60-70	11.99	150-160	0.00
70-80	6.46	160-170	0.00
80-90	0.59	170-180	0.00

$\gamma(^{\circ})$	Zone lumens	% Lamp	$\gamma(^{\circ})$	Zone lumen	% Lamp
0-30	12.10	18.40%	90-120	0.00	0.00%
0-40	21.67	32.96%	90-130	0.00	0.00%
0-60	46.72	71.05%	90-120	0.00	0.00%
0-90	65.76	100.00%	90-150	0.00	0.00%
0-120	65.76	100.00%	90-120	0.00	0.00%
0-180	65.76	100.00%	90-180	0.00	0.00%
60-90	19.04	28.95%	0-64.63	52.61	80.00%



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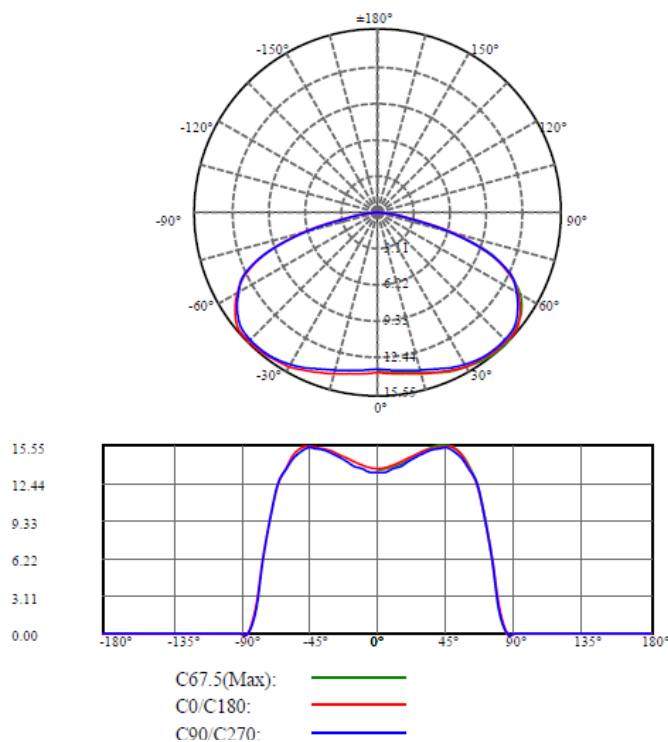
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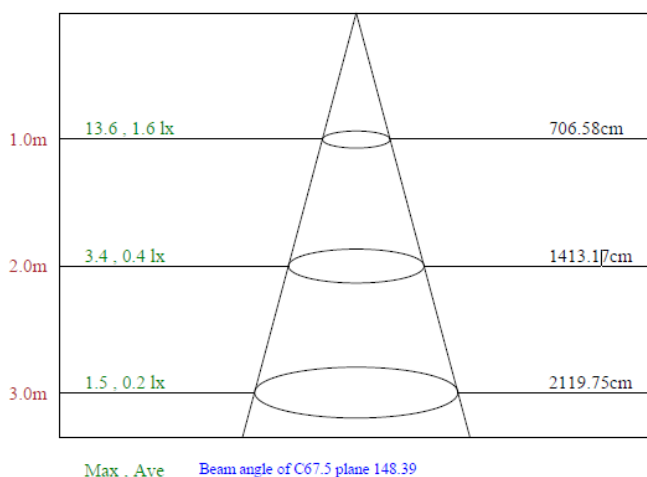
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配光曲线 (cd)



等照度曲线



Max, Ave Beam angle of C67.5 plane 148.39



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光强分布 (cd)

C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	13.58	13.69	13.87	14.16	14.45	14.77	15.09	15.26	15.35
22.5	13.52	13.58	13.78	14.06	14.39	14.68	14.98	15.17	15.36
45.0	13.46	13.55	13.75	14.00	14.37	14.71	15.03	15.26	15.46
67.5	13.49	13.58	13.79	14.04	14.40	14.82	15.10	15.35	15.51
90.0	13.29	13.37	13.58	13.84	14.16	14.56	14.85	15.14	15.29
112.5	13.49	13.58	13.79	14.04	14.40	14.82	15.10	15.35	15.51
135.0	13.46	13.55	13.75	14.00	14.37	14.71	15.03	15.26	15.46
157.5	13.52	13.58	13.78	14.06	14.39	14.68	14.98	15.17	15.36
180.0	13.58	13.69	13.87	14.16	14.45	14.77	15.09	15.26	15.35
202.5	13.52	13.58	13.78	14.06	14.39	14.68	14.98	15.17	15.36
225.0	13.46	13.55	13.75	14.00	14.37	14.71	15.03	15.26	15.46
247.5	13.49	13.58	13.79	14.04	14.40	14.82	15.10	15.35	15.51
270.0	13.29	13.37	13.58	13.84	14.16	14.56	14.85	15.14	15.29
292.5	13.49	13.58	13.79	14.04	14.40	14.82	15.10	15.35	15.51
315.0	13.46	13.55	13.75	14.00	14.37	14.71	15.03	15.26	15.46
337.5	13.52	13.58	13.78	14.06	14.39	14.68	14.98	15.17	15.36
360.0	13.58	13.69	13.87	14.16	14.45	14.77	15.09	15.26	15.35
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	15.43	15.35	14.74	13.72	12.33	9.92	6.27	2.29	0.00
22.5	15.42	15.26	14.80	13.82	12.33	9.86	6.22	2.32	0.00
45.0	15.43	15.22	14.80	13.82	12.29	9.81	6.27	2.39	0.00
67.5	15.55	15.32	14.82	13.92	12.37	9.97	6.18	1.90	0.00
90.0	15.32	15.11	14.53	13.66	12.45	9.92	6.18	1.92	0.00
112.5	15.55	15.32	14.82	13.92	12.37	9.97	6.18	1.90	0.00
135.0	15.43	15.22	14.80	13.82	12.29	9.81	6.27	2.39	0.00
157.5	15.42	15.26	14.80	13.82	12.33	9.86	6.22	2.32	0.00
180.0	15.43	15.35	14.74	13.72	12.33	9.92	6.27	2.29	0.00
202.5	15.42	15.26	14.80	13.82	12.33	9.86	6.22	2.32	0.00
225.0	15.43	15.22	14.80	13.82	12.29	9.81	6.27	2.39	0.00
247.5	15.55	15.32	14.82	13.92	12.37	9.97	6.18	1.90	0.00
270.0	15.32	15.11	14.53	13.66	12.45	9.92	6.18	1.92	0.00
292.5	15.55	15.32	14.82	13.92	12.37	9.97	6.18	1.90	0.00
315.0	15.43	15.22	14.80	13.82	12.29	9.81	6.27	2.39	0.00
337.5	15.42	15.26	14.80	13.82	12.33	9.86	6.22	2.32	0.00
360.0	15.43	15.35	14.74	13.72	12.33	9.92	6.27	2.29	0.00
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
202.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
247.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
292.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
337.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



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C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
202.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
247.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
292.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
337.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C/γ(°)	180.0
0.0	0.00
22.5	0.00
45.0	0.00
67.5	0.00
90.0	0.00
112.5	0.00
135.0	0.00
157.5	0.00
180.0	0.00
202.5	0.00
225.0	0.00
247.5	0.00
270.0	0.00
292.5	0.00
315.0	0.00
337.5	0.00
360.0	0.00



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测试报告

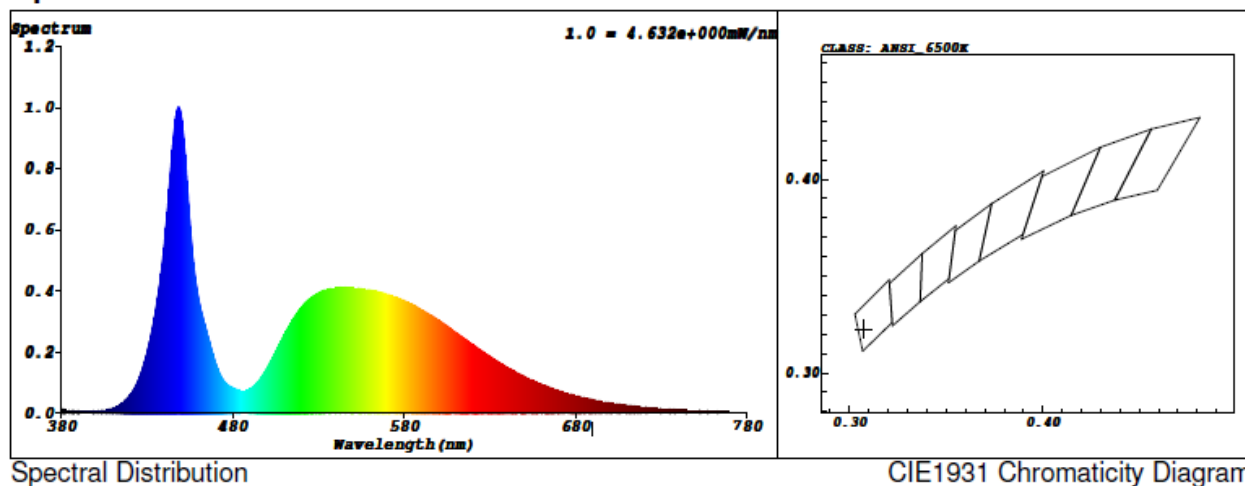
报告编号: GZES200101035832

签发日期: 2020-01-13

II) 颜色特性

测试电压: 12 V DC
输入电流: 0.0606 A
总运行时间: 70 min
稳定时间: 63 min
功率: 0.7272 W
色品坐标: $x=0.3182$; $y=0.3358$
 $u'=0.1991$; $v'=0.4727$
Duv: 3.98×10^{-3}
相关色温: 6180 K
一般显色指数 Ra: 82.4
R9: 6

Spectrum



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Guangzhou Branch Testing Center EEC Laboratory 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

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3 标准灯信息

型号	D204H
标准灯类型	全方向灯
校准电流(A)	5,0250
参考电压 (V)	26,5
校准相关色温 (K)	3217
校准光通量 (lm)	3000



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4 试验仪器设备清单

设备编号	仪器名称	校准有效期至
GZE003-16	交流/直流电源	2020/6/13
GZE006-79	数字电参数测量仪	2020/4/7
GZE126-12	精密数显直流稳流稳压电源(30V/5A)	2020/10/25
GZE126-13	数字功率计 (0.15级)	2020/10/30
GZE126-14	智能交流测试专用电源 1kVA	2020/10/25
GZE126-24	通用标准光源	2020/6/25
GZE126-8	高精度快速光谱辐射计(380nm -780nm)	2020/10/29
GZE126-9	积分球	2022/12/29
GZE129-1	分布光度计测试系统	2020/6/28
GZE012-54	真有效值数字万用表	2020/2/25



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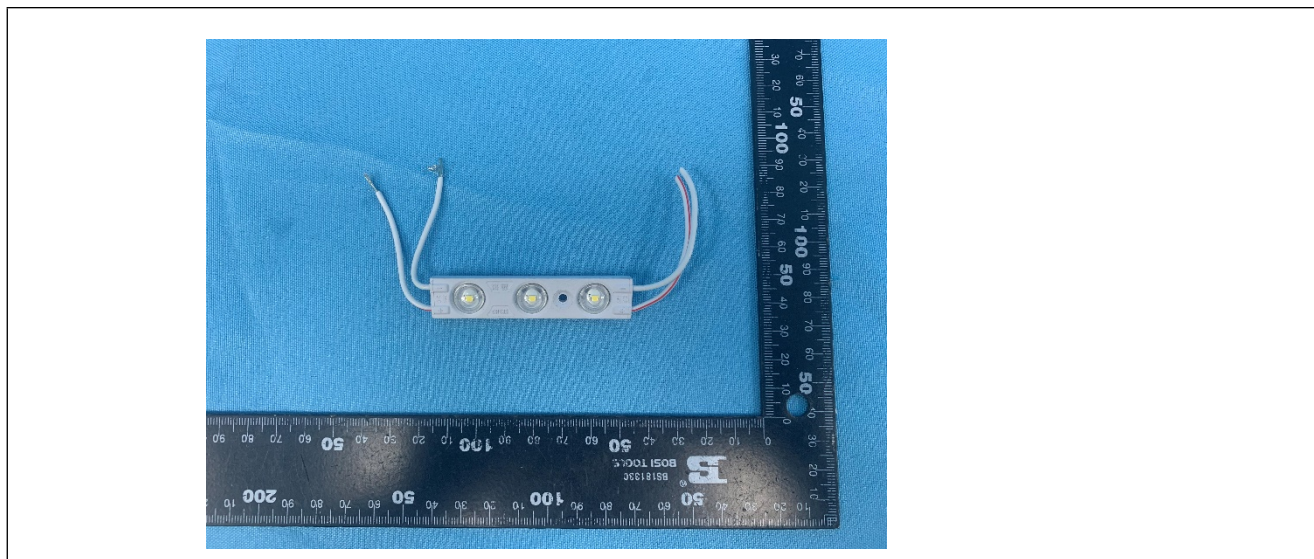
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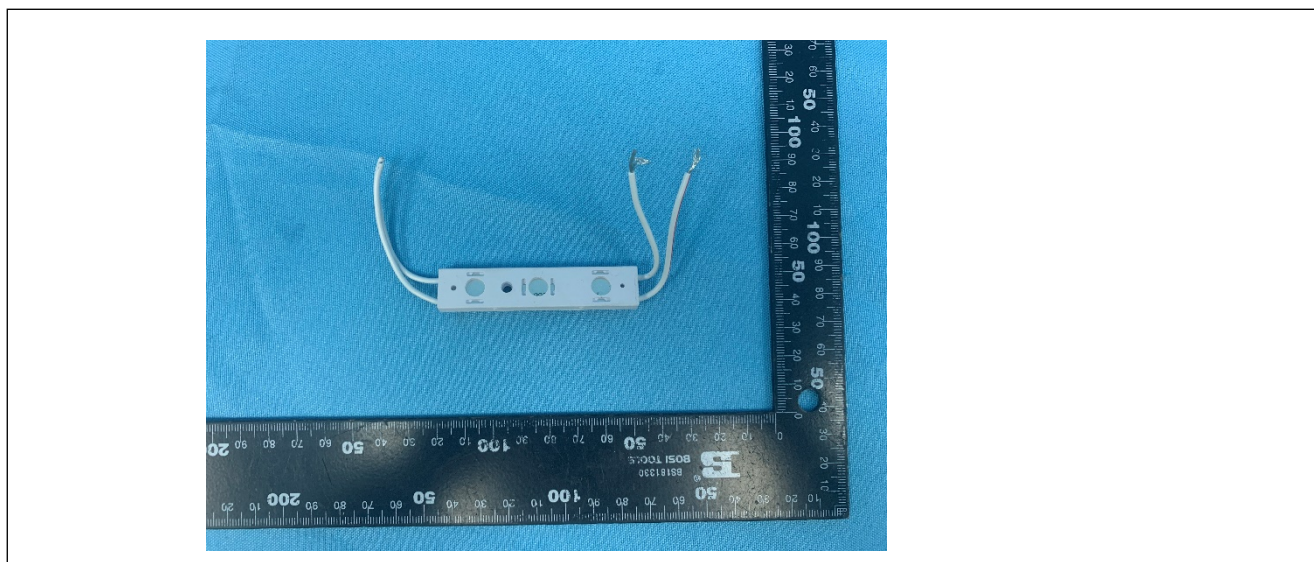
签发日期: 2020-01-13

样品图片:

描述: 产品外观



描述: 产品外观



- - - 报告结尾 - - -



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