



## **STC Test Report**

Date : 2014-10-30

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No. : DE112788

**Applicant (SZS005)** : SHEN ZHEN S-TECH LIGHTING CO., LTD  
5/F, Bldg A, QiaoHongSheng Industrial Park,  
Yin Tian Manufacturing District, XiXiang Town,  
Bao'an Area, ShenZhen, China

**Description of Sample(s)** : Submitted sample(s) said to be  
Product: Low Bay Light  
Brand name: S-Tech  
Model No.: FLA-SH040W Q62C  
Electrical rating: AC 100-240V 50/60Hz, 40W  
Quantity submitted: 1 piece  
Country of origin: China  
Country of destination: Not provided  
Manufacturer: SHEN ZHEN S-TECH LIGHTING CO., LTD

**Date Sample(s) Received** : 2014-10-22

**Date Tested** : 2014-10-22

**Investigation Requested** : Luminous Intensity Distribution Measurements

**Test Method** : Referred to IES LM-79-08 Electrical and Photometric  
Measurements of Solid-State Lighting Products.

**Conclusion(s)** : See the test data in following pages

**Remark(s)** : --

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LI Chang Jun, Ricky  
Authorized Signatory  
Electrical Safety Department  
For and on behalf of  
STC (Dongguan) Company Limited

**STC (Dongguan) Company Limited**

68 Fumin Nan Road, Dalang, Dongguan, China. (Zip Code : 523 770)

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### TEST DATA

#### ZONAL FLUX DIAGRAM

##### ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	$\%lum, lamp$
10	1780	1795	1790	1786	1781	1788	1781	1778	0- 10	171.4	171.4	4.4
20	1676	1677	1686	1686	1694	1682	1668	1670	10- 20	492.5	663.9	15.5,15.5
30	1467	1473	1487	1481	1500	1490	1483	1466	20- 30	729.2	1393	32.5,32.5
40	1257	1265	1275	1291	1285	1275	1260	1258	30- 40	863.2	2256	52.6,52.6
50	1012	1041	1052	1072	1064	1046	1029	1028	40- 50	901.4	3158	73.7,73.7
60	518.1	564.6	587.9	612.2	639.9	589.6	539.5	535.2	50- 60	750.0	3908	91.2,91.2
70	82.26	87.55	105.2	111.7	118.5	102.3	93.29	83.61	60- 70	302.1	4210	98.2,98.2
80	29.46	31.97	34.78	36.16	37.36	35.12	32.39	30.65	70- 80	63.27	4273	99.7,99.7
90	0.0288	0.0305	0.0327	0.0288	0.0153	0.0148	0.0188	0.0185	80- 90	12.35	4285	100,100
100	0.0319	0.0283	0.0262	0.0272	0.0150	0.0140	0.0127	0.0141	90-100	0.0228	4285	100,100
110	0.0490	0.0442	0.0346	0.0412	0.0181	0.0176	0.0179	0.0187	100-110	0.0266	4285	100,100
120	0.0723	0.0654	0.0676	0.0604	0.0252	0.0263	0.0238	0.0264	110-120	0.0380	4286	100,100
130	0.0625	0.0600	0.0528	0.0516	0.0380	0.0385	0.0327	0.0354	120-130	0.0410	4286	100,100
140	0.0759	0.0790	0.0733	0.0713	0.0414	0.0464	0.0392	0.0401	130-140	0.0395	4286	100,100
150	0.1014	0.1148	0.1012	0.1083	0.0500	0.0571	0.0479	0.0484	140-150	0.0425	4286	100,100
160	0.1177	0.1212	0.1055	0.1153	0.0588	0.0722	0.0842	0.0626	150-160	0.0392	4286	100,100
170	0.1137	0.1231	0.1284	0.1194	0.0631	0.0585	0.0616	0.0452	160-170	0.0262	4286	100,100
180	0.0963	0.1090	0.1210	0.1069	0.0950	0.1061	0.1204	0.1161	170-180	0.0088	4286	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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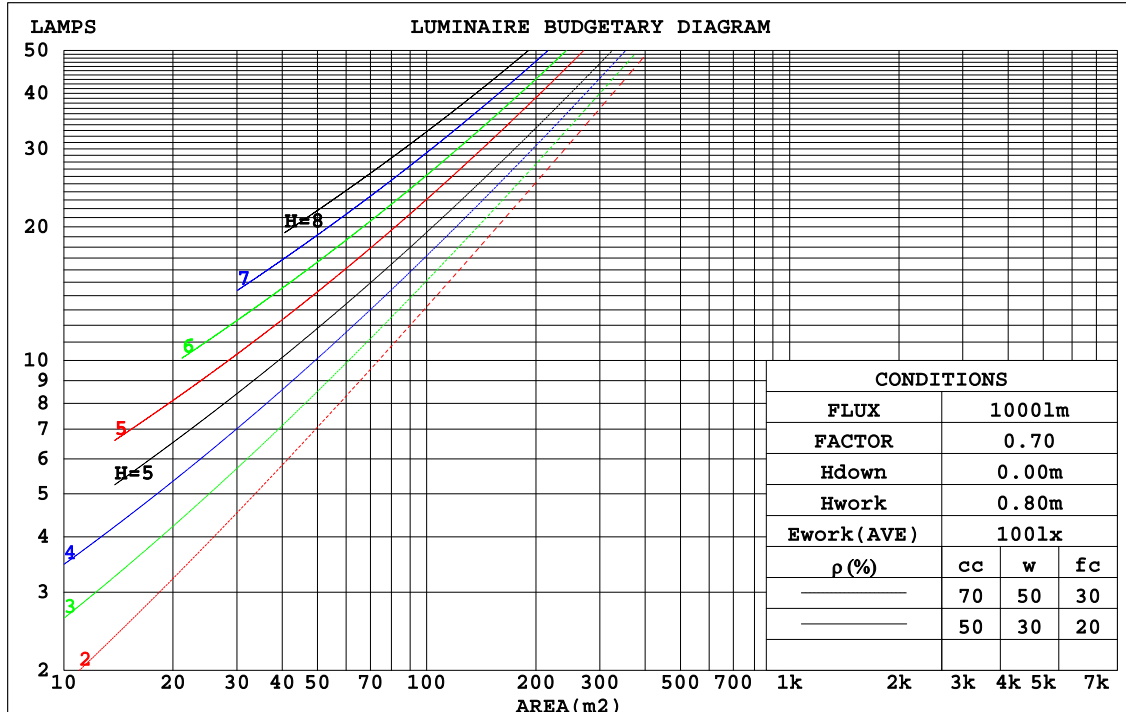
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### TEST DATA

#### CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pf <sub>c</sub>	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	.00
1.0	1.07	1.03	1.00	1.05	1.01	.99	1.00	.98	.95	.97	.95	.93	.93	.91	.90	.88
2.0	.95	.89	.84	.93	.88	.83	.90	.85	.81	.87	.83	.80	.84	.81	.78	.76
3.0	.85	.77	.72	.83	.76	.71	.80	.74	.70	.78	.73	.69	.75	.71	.67	.65
4.0	.76	.68	.62	.74	.67	.61	.72	.65	.60	.70	.64	.60	.68	.63	.59	.57
5.0	.68	.60	.54	.67	.59	.53	.65	.58	.53	.63	.57	.52	.61	.56	.52	.50
6.0	.61	.53	.47	.60	.53	.47	.59	.52	.46	.57	.51	.46	.56	.50	.46	.44
7.0	.56	.48	.42	.55	.47	.42	.54	.46	.41	.52	.46	.41	.51	.45	.41	.39
8.0	.51	.43	.37	.50	.43	.37	.49	.42	.37	.48	.41	.37	.47	.41	.37	.35
9.0	.47	.39	.34	.46	.39	.34	.45	.38	.33	.44	.38	.33	.43	.37	.33	.31
10.0	.43	.36	.31	.43	.35	.31	.42	.35	.30	.41	.35	.30	.40	.34	.30	.28



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### TEST DATA

#### WEC AND CCEC

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.253	.144	.045	.246	.140	.045	.233	.133	.043	.221	.127	.041	.210	.122	.039		
2.0	.248	.136	.042	.242	.133	.041	.231	.128	.040	.220	.123	.039	.210	.119	.038		
3.0	.237	.126	.038	.231	.124	.037	.221	.120	.036	.212	.116	.036	.204	.113	.035		
4.0	.223	.116	.034	.219	.114	.034	.210	.111	.033	.202	.108	.033	.194	.106	.032		
5.0	.210	.107	.031	.206	.106	.031	.198	.103	.030	.191	.101	.030	.184	.098	.030		
6.0	.198	.099	.028	.194	.098	.028	.187	.096	.028	.181	.094	.028	.174	.092	.027		
7.0	.186	.092	.026	.183	.091	.026	.177	.089	.026	.171	.087	.025	.165	.086	.025		
8.0	.175	.086	.024	.172	.085	.024	.167	.083	.024	.161	.082	.024	.156	.080	.023		
9.0	.165	.080	.022	.163	.079	.022	.158	.078	.022	.153	.077	.022	.148	.075	.022		
10.0	.156	.075	.021	.154	.074	.021	.149	.073	.021	.145	.072	.020	.141	.071	.020		

pcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.191	.191	.191	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.176	.157	.139	.151	.134	.120	.103	.093	.083	.059	.054	.048	.019	.017	.016	
2.0	.166	.132	.103	.143	.114	.089	.098	.079	.062	.056	.046	.037	.018	.015	.012	
3.0	.158	.114	.079	.136	.098	.069	.093	.068	.048	.054	.040	.028	.017	.013	.009	
4.0	.151	.100	.062	.129	.087	.054	.089	.060	.038	.051	.035	.023	.017	.012	.007	
5.0	.144	.090	.050	.123	.078	.044	.085	.054	.031	.049	.032	.018	.016	.010	.006	
6.0	.137	.081	.041	.118	.070	.036	.081	.049	.026	.047	.029	.015	.015	.009	.005	
7.0	.131	.074	.035	.112	.064	.030	.078	.045	.022	.045	.027	.013	.015	.009	.004	
8.0	.125	.069	.030	.107	.060	.026	.074	.042	.019	.043	.025	.011	.014	.008	.004	
9.0	.119	.064	.026	.103	.055	.023	.071	.039	.016	.041	.023	.010	.013	.008	.003	
10.0	.114	.059	.023	.098	.052	.020	.068	.036	.014	.040	.021	.009	.013	.007	.003	

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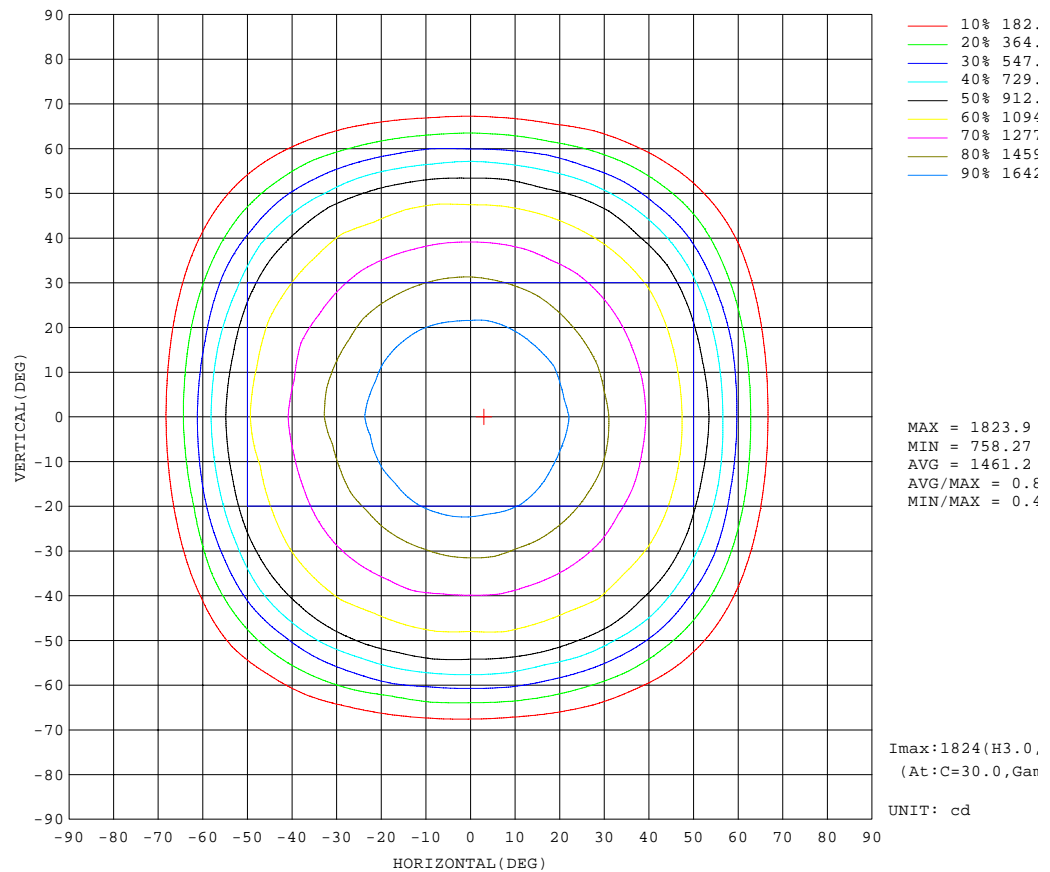
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### TEST DATA

#### ISOCANDELA DIAGRAM



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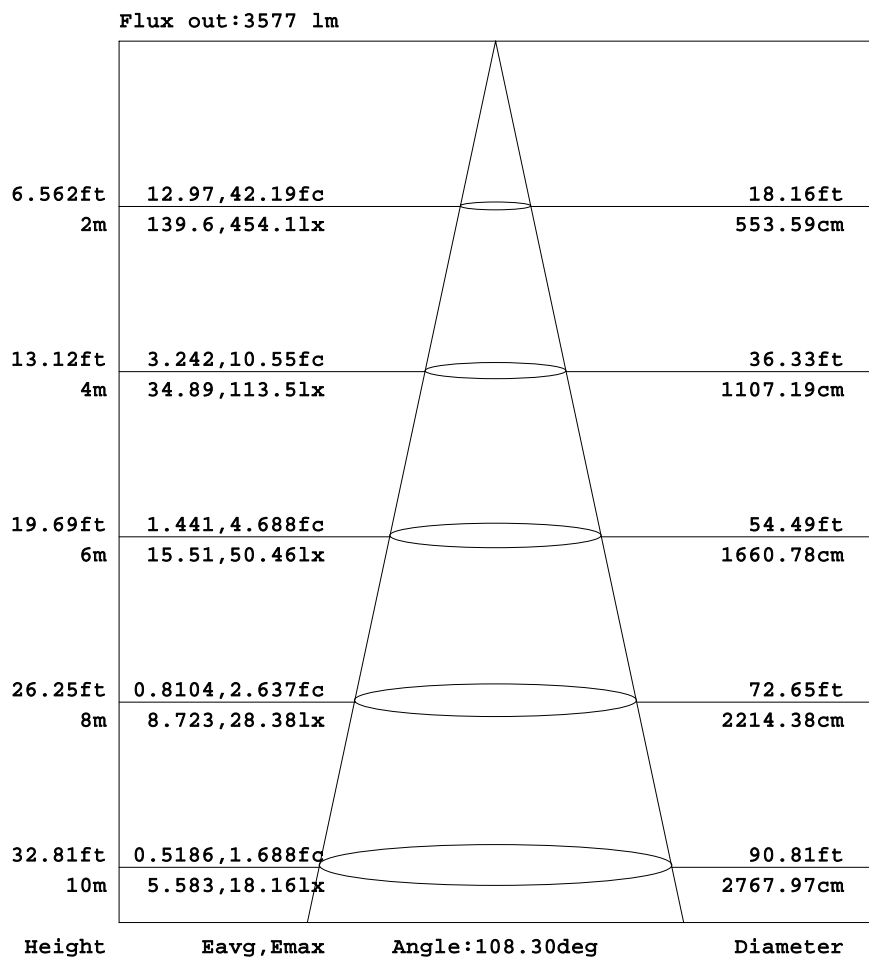
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### TEST DATA

#### AAI Figure



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

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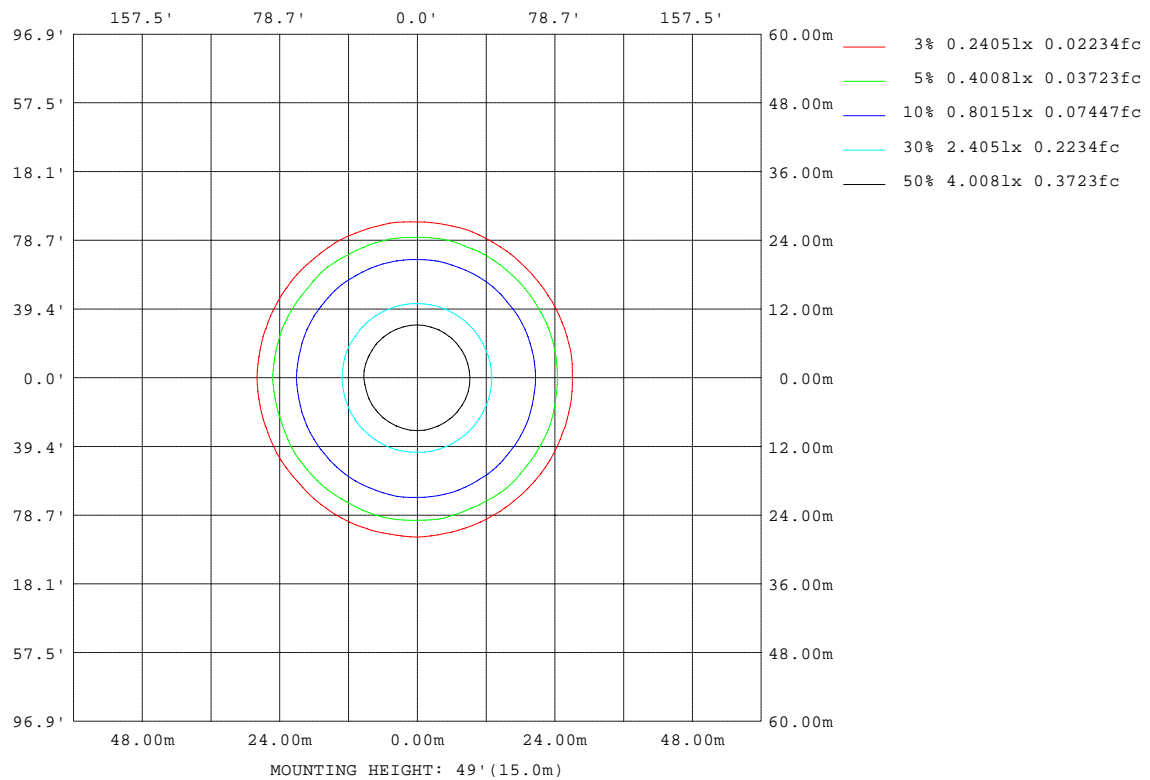
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### TEST DATA ISOLUX DIAGRAM



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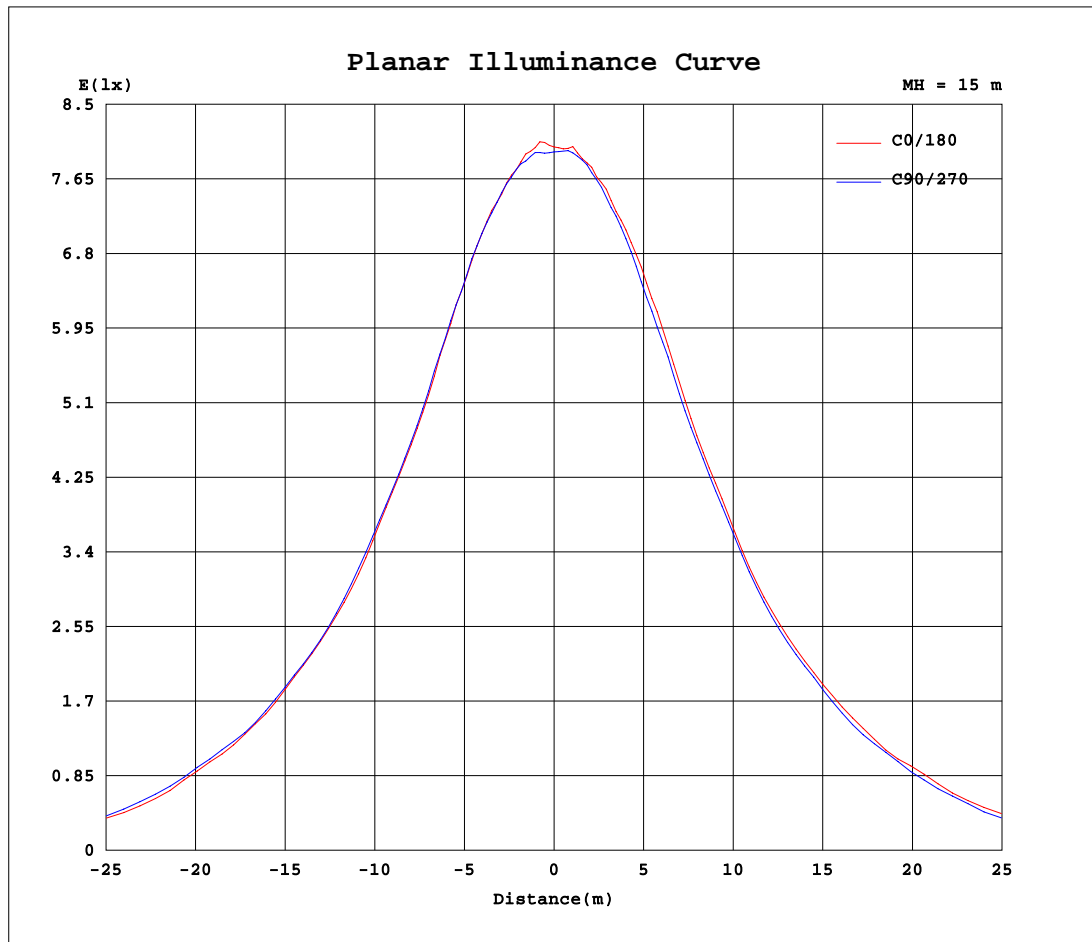
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### TEST DATA

#### Planar Illuminance Curve



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### TEST DATA

#### LUMINOUS DISTRIBUTION INTENSITY DATA

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	1792	1792	1792	1792	1792	1792	1792	1792	1792	1792	1792	1792	1792	1792	1792	1792	1792	1792	1792
5	1802	1802	1803	1807	1804	1803	1805	1804	1803	1801	1800	1800	1801	1799	1799	1796	1796	1796	1798
10	1780	1785	1787	1790	1794	1797	1799	1795	1795	1790	1790	1786	1788	1786	1785	1784	1781	1780	1781
15	1743	1747	1747	1751	1754	1757	1761	1760	1758	1757	1757	1761	1760	1759	1759	1758	1753	1752	1754
20	1676	1668	1663	1671	1677	1677	1690	1689	1684	1686	1689	1694	1695	1687	1685	1691	1697	1692	1694
25	1559	1561	1556	1562	1569	1574	1578	1579	1577	1583	1586	1590	1597	1597	1591	1597	1601	1596	1602
30	1467	1474	1478	1473	1472	1474	1479	1478	1486	1487	1487	1483	1484	1482	1480	1486	1483	1487	1500
35	1356	1363	1365	1368	1377	1381	1386	1376	1382	1391	1386	1377	1388	1397	1395	1393	1384	1379	1390
40	1257	1254	1259	1254	1264	1266	1268	1271	1279	1275	1279	1292	1285	1289	1293	1290	1284	1286	1285
45	1161	1170	1155	1171	1167	1173	1168	1181	1171	1184	1196	1183	1188	1186	1180	1187	1190	1187	1198
50	1012	1021	1038	1032	1031	1051	1036	1052	1054	1052	1052	1066	1062	1071	1074	1067	1058	1061	1064
55	809	826	822	833	838	858	850	871	881	872	892	892	895	878	891	879	899	894	898
60	518	525	562	543	563	566	579	571	607	588	618	611	604	621	604	626	607	615	640
65	262	264	263	276	284	294	301	296	304	316	319	320	328	321	322	320	329	314	324
70	82.3	83.6	84.1	85.5	85.9	89.2	90.0	95.7	99.9	105	110	105	104	107	117	107	107	104	118
75	56.1	56.4	56.7	57.1	57.7	58.1	58.7	59.2	59.6	60.0	60.4	60.7	61.0	61.2	61.3	61.4	61.5	61.4	62.5
80	29.5	29.9	30.4	31.0	31.6	32.3	33.0	33.7	34.2	34.8	35.3	35.6	35.9	36.1	36.2	36.2	36.1	35.9	37.4
85	6.35	6.61	6.91	7.28	7.68	8.12	8.06	8.60	9.11	9.61	9.98	10.3	10.6	10.8	10.9	10.9	10.7	10.5	11.5
90	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02
95	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.01
100	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02
105	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.02
110	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.02
115	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.02
120	0.07	0.07	0.07	0.06	0.07	0.07	0.07	0.06	0.06	0.07	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.03
125	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.06	0.06	0.06	0.06	0.03
130	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.04
135	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.04
140	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.04
145	0.09	0.09	0.09	0.10	0.10	0.09	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.08	0.08	0.05
150	0.10	0.11	0.11	0.12	0.12	0.11	0.10	0.10	0.11	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.10	0.05
155	0.11	0.12	0.11	0.12	0.12	0.12	0.11	0.11	0.10	0.09	0.09	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.05
160	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.11	0.11	0.10	0.11	0.11	0.12	0.11	0.11	0.11	0.11	0.06
165	0.12	0.12	0.12	0.12	0.12	0.12	0.13	0.13	0.12	0.13	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.07
170	0.11	0.11	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.12	0.12	0.12	0.12	0.12	0.12	0.06
175	0.11	0.11	0.11	0.11	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.12	0.12	0.12	0.12	0.12	0.07
180	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.13	0.12	0.11	0.10	0.11	0.09	0.11	0.09

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### TEST DATA

#### LUMINOUS DISTRIBUTION INTENSITY DATA

Table--2

UNIT: cd

C(DEG) γ (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	1792	1792	1792	1792	1792	1792	1792	1792	1792	1792	1792	1792	1792	1792	1792	1792	1792		
5	1798	1799	1800	1800	1799	1802	1803	1801	1802	1802	1805	1804	1801	1800	1802	1802	1803		
10	1780	1783	1782	1787	1789	1787	1788	1782	1781	1776	1776	1776	1775	1780	1780	1783	1784		
15	1751	1753	1754	1753	1752	1752	1748	1742	1741	1741	1742	1742	1743	1745	1746	1745	1748		
20	1687	1681	1686	1686	1678	1680	1675	1669	1668	1672	1674	1677	1673	1667	1676	1677	1679		
25	1601	1591	1595	1594	1591	1591	1578	1573	1573	1574	1570	1570	1567	1565	1568	1572	1568		
30	1503	1500	1489	1492	1488	1487	1484	1482	1483	1477	1475	1474	1468	1465	1467	1472	1472		
35	1393	1386	1381	1390	1384	1379	1374	1376	1377	1374	1367	1371	1370	1375	1373	1370	1365		
40	1275	1288	1276	1275	1274	1268	1263	1263	1260	1259	1265	1254	1259	1258	1256	1258	1267		
45	1198	1186	1190	1186	1189	1177	1179	1160	1167	1165	1158	1163	1157	1161	1171	1160	1162		
50	1066	1060	1053	1042	1050	1035	1050	1049	1029	1034	1036	1022	1028	1029	1023	1031	1033		
55	880	886	893	870	889	852	870	844	838	831	823	828	809	825	811	827	825		
60	616	640	590	593	586	569	563	569	540	543	556	534	543	527	540	531	550		
65	324	316	312	314	303	301	284	279	283	286	264	281	260	260	264	278	263		
70	118	113	102	103	101	94.6	91.9	92.4	93.3	88.2	86.5	85.5	83.4	83.8	83.2	84.1	85.4		
75	62.4	62.1	61.9	61.5	61.0	60.6	60.0	59.5	59.0	58.5	58.1	57.7	57.3	57.2	57.1	57.1	57.3		
80	37.0	36.5	36.0	35.4	34.8	34.2	33.6	33.0	32.4	31.9	31.4	31.0	30.7	30.6	30.5	30.6	30.9		
85	11.2	10.7	10.3	9.75	9.23	8.66	8.15	7.62	7.16	6.73	6.38	6.14	6.01	5.86	5.92	5.99	6.17		
90	0.02	0.02	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02		
95	0.02	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01		
100	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02		
105	0.02	0.02	0.02	0.02	0.01	0.02	0.01	0.01	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02		
110	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02		
115	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02		
120	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.03	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03		
125	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03		
130	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04		
135	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04		
140	0.04	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04		
145	0.05	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05		
150	0.05	0.05	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05		
155	0.05	0.05	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.06		
160	0.06	0.06	0.06	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.06	0.06	0.06	0.06	0.06	0.07		
165	0.07	0.07	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.05	0.05	0.06	0.06	0.06		
170	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.06	0.06	0.06	0.06	0.06	0.05	0.04	0.05	0.05	0.06		
175	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.06	0.06	0.07	0.07	0.06	0.05	0.06	0.06		
180	0.09	0.10	0.10	0.10	0.11	0.11	0.11	0.12	0.12	0.12	0.13	0.12	0.12	0.11	0.11	0.10	0.10		

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### **Product Photographs**



**\*\*\*\*\* End of Test Report \*\*\*\*\***

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