Date of issue	2021-07-08
Version	1.0
Total pages	22

Test report of
IES LM-79-08
Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Applicant:

RAB Lighting Inc

Address:

Northvale,New Jersey, 07647, USA

For Product:

LED temporary work light

Model No.:

TEMP-100-850/25CP

Test laboratory: Shenzhen Belling Efficiency Testing Lab Co., Ltd, 1Floor, No.1 Building, Meibaohe Industrial Park, Dalang Street, Longhua District, Shenzhen, Guangdong Prov.518101 China.

Jarvis zhang

Jason zhou

Complied by: Jarvis zhang **Review by: Jason zhou**

Project Engineer **Technical Manager**

Note: The test data was only valid for the test sample(s). This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or use in part without prior written consent from Shenzhen Belling Efficiency Testing Lab Co., Ltd. This report must not be used by the customer to claim product certification, approval, or endorsement By NVLAP, NIST, or any agency of the U.S. Government.

1 General

1.1 Product Information

Manufacturer	RAB Lighting Inc
Manufacturer Address	Northvale,New Jersey, 07647, USA
Brand Name	/
Luminaire Type	LED temporary work light
Model Number	TEMP-100-850/25CP
Rated Inputs	AC 100-277V 50/60Hz
Rated Power	100 W
Nominal CCT	5000K
Date of Receipt Samples	2020-10-10
Date of test	2020-10-10 to 2020-10-16
Burning Time Before Test	0hour(For New Products)

1.2 Standards or methods

- ANSI C78.377-2017:Specifications for the Chromaticity of Solid State Lighting Products
- ANSI C82.77-10:2014:Harmonic Emission Limits - Related Power Quality Requirements for Lighting Equipment - Solid State
- CIE Publication No.13.3-1995:Method of Measuring and Specifying Color Rendering of Light Sources
- IESNA LM-79-08 Approved Method: Electric & Photometric Measurement of Solid-state Lighting Products

1.3 Equipment list

Device	Manufacture	Model No.	Serial No.	Calibration due date
Goniophotometric System	SENSING	GMS-3000	N.A	2021-04-02
AC Power Source	ALL POWER	APW-110N	992257	2021-04-02
Total Luminous Flux Standard Lamp	SENSING	110V/100W	S1510065	2021-04-08
Total Spectral Radiant Flux Standard Lamp	SENSING	12V/20W	LSD12201731	2021-04-08
Digital Power Meter	YOKOGAWA	WT310	C2QM02030V	2021-04-02
Integral Sphere	SENSING	SPR-600M	N.A	2021-04-02
Digital Power Meter	YOKOGAWA	WT210	91L929742	2021-04-02
Optical Color and Electrical Measurement System	SENSING	SPR-3000	S1101108	2021-04-02
Environment Measurer	XUYAO	HS-1	N/A	2021-04-08
Environment Measurer	XUYAO	HS-1	N/A	2021-04-08
Stop watch	KISLO	K610	N/A	2021-04-27
Digital Anemometer	TECMAN	TD8901	026141	2021-09-09

Statement of Traceability: Shenzhen Belling Efficiency Testing Lab Co., Ltd attests that all calibration has been performed using suitable standards traceable to national primary standards and International System of Unit (SI).

1.4 Report Revision:

Original report BL201015010-9 dated at 2020-10-20 was recalled and declared as invalid by Shenzhen Belling Efficiency Testing Lab Co.,Ltd. Report BL201015010-9A was issued on to replace report BL201015010-9.
The report BL201015010-9A dated at 2020-10-28 was recalled and declared as invalid by Shenzhen Belling Efficiency Testing Lab Co.,Ltd. Report BL201015010-9B was issued on to replace report BL201015010-9A.
The report BL201015010-9B dated at 2021-06-09 was recalled and declared as invalid by Shenzhen Belling Efficiency Testing Lab Co.,Ltd. Report BL201015010-9C was issued on to replace report BL201015010-9B.

Report Number	Report Data	Contents
BL201015010-9	2020-10-20	Original report
BL201015010-9A	2020-10-28	(1)Revise the Brand Name, (2)Add the TM-30
BL201015010-9B	2021-06-09	Revise the Model Number
BL201015010-9C	2021-07-08	Add the THD and PF

2 Test conducted and method

2.1 Ambient Condition

The ambient temperature in which measurements are being taken was maintained at 25°C ±1°C, the air flow around the sample(s) being tested did not affect the performance.

2.2 Power Supply Characteristics

The AC power supply had a sinusoidal voltage wave shape at the prescribed frequency (60 Hz) such that the RMS summation of the harmonic components does not exceed 3 percent of the fundamental during operation of the test item.

The voltage of AC power supply (RMS voltage) applied to the device under test was regulated to within±0.2 percent under load.

2.3 Seasoning and Stabilization

No seasoning was performed in accordance with IESNA LM-79-08. And before the measurement, the sample was stabilized until the light output and power variations were less than 0.5% in 30 minutes intervals (3 readings, 15 minutes apart).

2.4 Integrating Sphere System

The system includes AC power source, digital power meter, DC power supply, spectrophotometer, and integrating sphere. The integrating sphere system is calibrated by standard light source before measurement. The system and standard light source has been calibrated regularly and traceable to the National Primary Standards. 4π geometry was used during measurement. The product was operated in its intended orientation in application and was recorded in this report.

Integrating Sphere Uncertainty: The uncertainty of the light output (luminous flux) measurements is U=1.8% (K=2), at the 95% confidence level. The uncertainty of the correlated color temperature measurements is U=20K (K=2), at the 95% confidence level. The uncertainty of the CRI is U=1.8(K=2), at the 95% confidence level. The uncertainty of power meter AC current U=0.18% of rdg, AC Voltage U=0.16% of rdg, Power U=0.20% (K=2), at the 95% confidence level.

2.5 Goniophotometer System

The goniophotometer system is calibrated by standard light source before measurement. The standard light source has been calibrated regularly and traceable to the National Primary Standards.

Type C goniophotometer was used for measuring total luminous flux, luminous intensity distribution, and color spatial uniformity. The product was operated in its intended orientation in application and was recorded in this report. The method according to IESNA LM-79-08 following chapter.

Goniophotometer Uncertainty :The uncertainty of the luminous intensity is U=1.6% (K=2), at the 95% confidence level.

3 Test Result Summary

3.1 Integrating Sphere System (Total operating time for integrating sphere test: 1.0 hour)

3.1.1 Electrical data

Model Number	Input Voltage(V)	Frequency (Hz)	Input Current (A)	Power (W)	Power Factor
TEMP-100-850/25CP	120.07	60	0.842	99.86	0.988
	277.06	60	0.404	99.76	0.892

3.1.2 Photometric data

Model Number	Luminous Flux (lm)	Efficacy (lm/W)	CCT (K)	CRI	R9
TEMP-100-850/25CP	12412.60	124.3	4871	83.7	13
	12220.60	122.5	4846	83.5	13

3.1.3 Chromaticity Coordinate

Model Number	Duv	x	y	u'	v'
TEMP-100-850/25CP	+0.00261	0.3495	0.3604	0.211	0.4895
	+0.00292	0.3504	0.3617	0.2111	0.4903

3.2 Goniophotometer System (Total operating time for luminous intensity distribution: 1.0 hour)

3.2.1 Electrical data

Model Number	Input Voltage(V)	Frequency (Hz)	Input Current (A)	Power (W)	Power Factor
TEMP-100-850/25CP	120.05	60	0.839	99.47	0.9879
	277.00	60	0.402	99.40	0.8932

3.2.2 Photometric data

Input Voltage(V)	Luminous Flux (lm)	Efficacy (lm/W)	Zonal Lumen in 0-60°(%lm)	Zonal Lumen in 0-90°(%lm)
120	12409.21	124.75	19.63	50.62
277	12137.45	122.11	19.65	50.65

4 Test Data

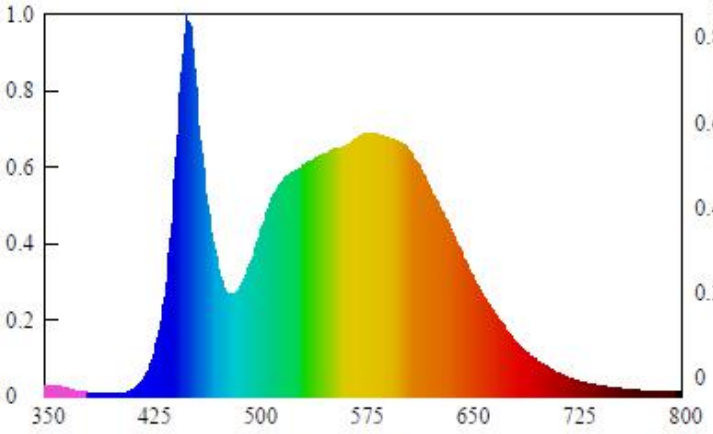
TEMP-100-850/25CP Tested at 120V

Test Condition

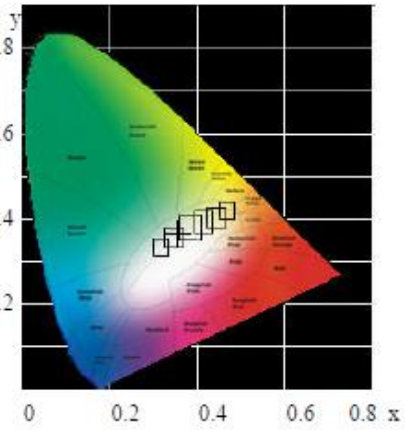
Temperature: 25°C RH: 58%

Spectrum Range: 350-800 nm Scan Step: 5 nm

Spectroradiometric Parameters



Spectral Distribution



CIE1931 Chromaticity Diagram

Chromaticity Coordinates: x=0.3495 y=0.3604 u'=0.211 v'=0.4895

Correlated Color Temperature: 4871 K Dominant Wavelength: 570.0 nm(E)

Colour Fidelity Index: Rf=82 Gamut Index: Rg=95

Luminous Flux: 12412.60 lm Purity: 0.1290

Chromaticity Difference: +0.00261Duv Peak Wavelength: 450.0 nm

Color Ratio: Kr=34.2% Kg=54.7% Kb=11.1%

Bandwidth: 28nm Radiant Flux: 43.445 W

Rendering Index: Ra=83.7

R1=82	R2=89	R3=93	R4=83	R5=82	R6=83	R7=89	R8=69
R9=13	R10=72	R11=82	R12=57	R13=84	R14=96	R15=77	Re=77

Electric Parameters

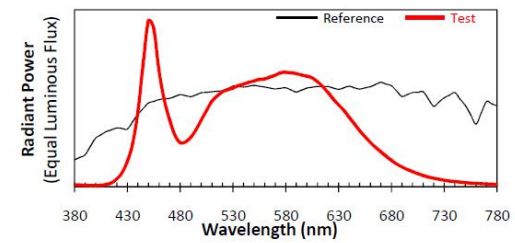
Voltage: 120.07 V Current: 0.842 A

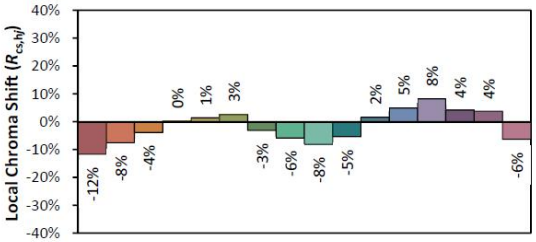
Power Factor: 0.988 Power: 99.86 W

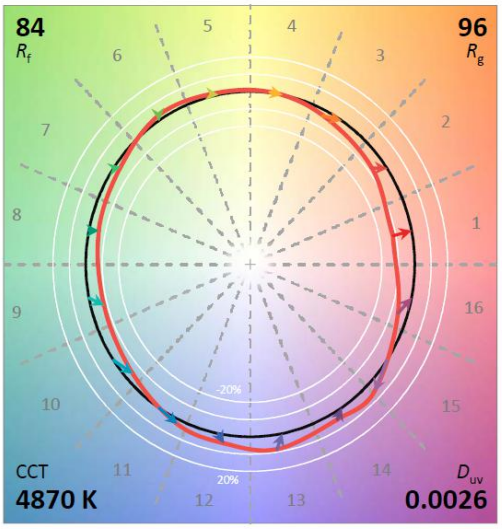
Luminous Efficacy: 124.3 lm/W

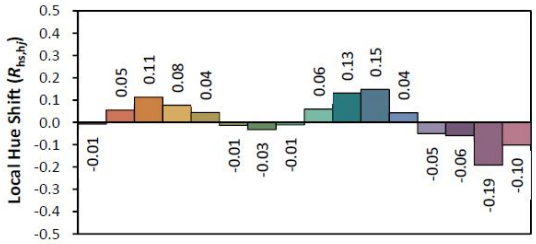
ANSI/IES TM-30-18 Color Rendition Report

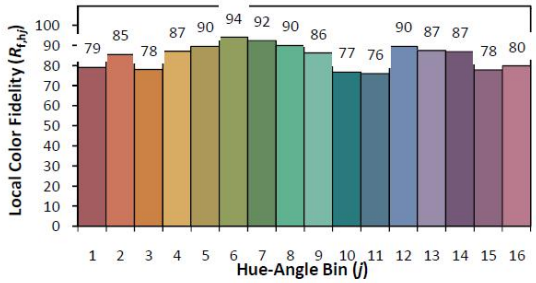
Source:	BL201015010-9B	**Manufacturer:**	RAB Lighting Inc
Date:	2020/10/22	**Model:**	TEMP-100-850/25CP

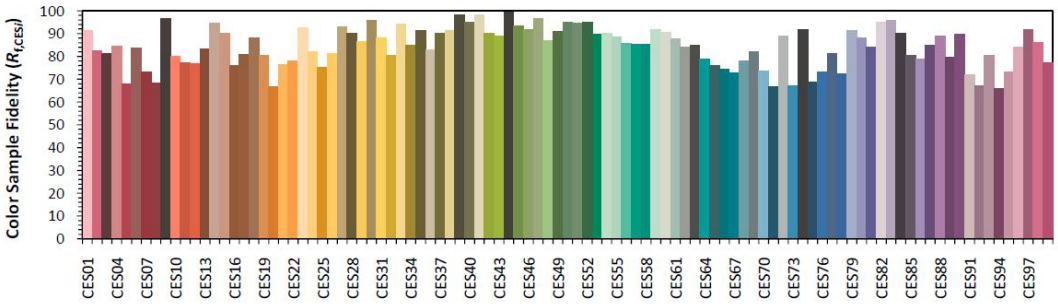












Notes: This is a recommended method for displaying ANSI/IES TM-30-18 information.

x	0.3495
y	0.3603
u'	0.2110
v'	0.4895

CIE 13.3-1995 (CRI)

R_a	84
R_9	13

Colors are for visual orientation purposes only. Created with the ANSI/IES TM-30-18 Calculator Version 2.00.

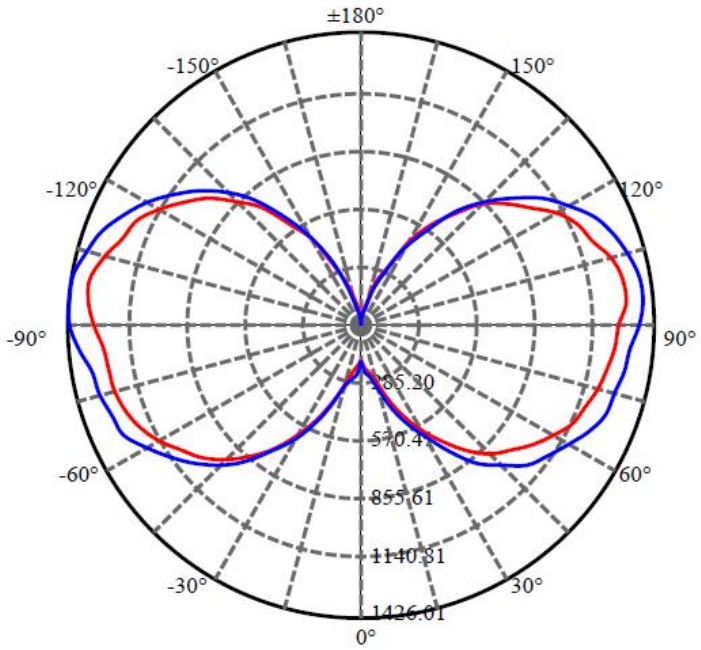
Zonal Flux Diagram

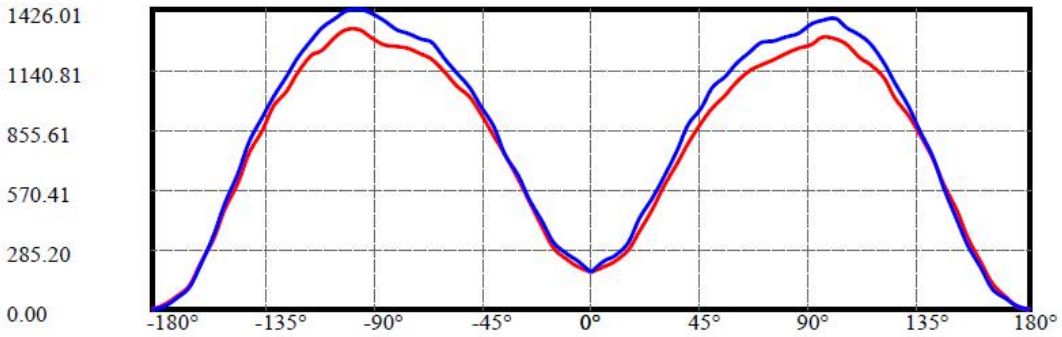
Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	172.975	0.000	0	0.00%	0.00%
5.0	210.273	4.582	4.582	0.00%	0.04%
10.0	242.113	16.183	20.765	0.00%	0.17%
15.0	296.451	31.947	52.712	0.00%	0.42%
20.0	394.020	56.905	109.617	0.00%	0.88%
25.0	498.796	93.640	203.257	0.00%	1.64%
30.0	595.232	138.450	341.707	0.00%	2.75%
35.0	708.631	192.003	533.71	0.00%	4.30%
40.0	816.264	254.417	788.127	0.00%	6.35%
45.0	906.651	319.012	1107.138	0.00%	8.92%
50.0	989.741	383.194	1490.332	0.00%	12.01%
55.0	1052.779	444.112	1934.444	0.00%	15.59%
60.0	1118.146	501.803	2436.247	0.00%	19.63%
65.0	1171.571	556.635	2992.882	0.00%	24.12%
70.0	1208.739	602.710	3595.592	0.00%	28.98%
75.0	1225.998	636.401	4231.993	0.00%	34.10%
80.0	1246.501	661.572	4893.565	0.00%	39.43%
85.0	1269.795	683.738	5577.303	0.00%	44.94%
90.0	1300.864	703.867	6281.17	0.00%	50.62%
95.0	1328.715	719.999	7001.169	0.00%	56.42%
100.0	1323.631	720.706	7721.875	0.00%	62.23%
105.0	1290.079	699.356	8421.231	0.00%	67.86%
110.0	1239.859	661.285	9082.516	0.00%	73.19%
115.0	1188.816	614.956	9697.473	0.00%	78.15%
120.0	1110.206	558.897	10256.369	0.00%	82.65%
125.0	1026.176	493.819	10750.188	0.00%	86.63%
130.0	939.714	427.450	11177.638	0.00%	90.08%
135.0	844.578	360.542	11538.18	0.00%	92.98%
140.0	732.711	292.048	11830.228	0.00%	95.33%
145.0	596.249	221.727	12051.955	0.00%	97.12%
150.0	466.530	156.502	12208.457	0.00%	98.38%
155.0	331.432	100.983	12309.44	0.00%	99.20%
160.0	217.042	57.525	12366.964	0.00%	99.66%
165.0	123.695	28.082	12395.046	0.00%	99.89%
170.0	61.854	11.007	12406.053	0.00%	99.97%
175.0	19.292	2.903	12408.956	0.00%	100.00%
180.0	1.914	0.254	12409.209	0.00%	100.00%

Luminous Intensity Distribution Diagram

Light Distribution Curve [Unit:cd]





C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:164.3 Right:164.7

:C90/270Left:163.3 Right:162.7

Beam Angle(50%Imax):C0/180Left:142.7 Right:142.0

:C90/270Left:142.8 Right:140.5

Luminous Intensity Distribution Data

C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	172.98	206.95	231.05	279.44	374.78	478.98	582.97	687.37	789.30
22.5	172.98	204.07	232.90	287.26	376.63	474.03	568.14	675.01	780.45
45.0	172.98	200.57	231.25	286.85	384.25	481.45	575.35	671.10	783.12
67.5	172.98	199.33	234.55	298.18	398.67	484.95	584.61	704.46	797.13
90.0	172.98	230.22	260.29	316.50	429.97	535.81	632.18	752.85	880.73
112.5	172.98	221.16	259.05	324.53	416.58	518.31	616.33	748.12	841.81
135.0	172.98	211.07	250.61	300.03	395.99	510.07	614.27	725.26	837.28
157.5	172.98	210.04	248.75	311.77	408.34	518.93	603.35	721.55	825.34
180.0	172.98	204.48	237.22	292.20	393.11	510.48	617.15	731.44	826.37
202.5	172.98	203.04	237.84	295.09	391.25	497.30	581.32	693.14	812.16
225.0	172.98	196.24	229.19	266.05	361.60	474.45	584.20	681.60	780.04
247.5	172.98	197.07	224.87	277.79	368.19	473.00	548.99	659.36	774.48
270.0	172.98	234.55	263.38	314.44	412.88	524.07	635.48	738.23	869.41
292.5	172.98	224.87	255.55	310.12	404.02	506.16	608.09	740.29	844.69
315.0	172.98	213.13	238.25	287.06	394.14	499.36	584.20	694.78	814.01
337.5	172.98	207.57	239.08	295.91	393.93	493.39	587.09	713.52	803.92
360.0	172.98	206.95	231.05	279.44	374.78	478.98	582.97	687.37	789.30

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	882.17	952.60	1016.43	1077.59	1132.16	1162.64	1191.26	1213.71	1242.13
22.5	874.76	949.92	1009.64	1091.39	1125.37	1164.90	1202.18	1231.21	1259.22
45.0	868.99	946.83	999.75	1068.33	1102.10	1146.37	1147.40	1192.09	1215.15
67.5	874.76	961.25	1016.85	1084.39	1125.16	1149.46	1177.47	1199.91	1214.33
90.0	957.13	1053.09	1110.13	1165.11	1218.03	1269.92	1276.93	1296.69	1309.87
112.5	939.62	1019.73	1077.18	1148.02	1207.74	1271.78	1261.07	1287.22	1285.37
135.0	921.30	1007.17	1068.94	1111.78	1169.43	1222.15	1225.24	1236.57	1238.21
157.5	914.30	998.93	1063.59	1126.81	1158.73	1221.53	1212.27	1236.77	1241.92
180.0	928.09	1008.40	1061.94	1128.04	1186.32	1213.91	1236.98	1248.51	1259.42
202.5	902.56	980.19	1055.35	1126.19	1186.11	1227.71	1240.48	1271.37	1296.69
225.0	880.73	951.57	1018.70	1084.18	1129.90	1170.26	1186.73	1212.68	1241.30
247.5	855.40	933.24	1005.52	1074.71	1122.69	1137.93	1159.96	1182.82	1211.03
270.0	969.28	1051.03	1121.45	1190.44	1267.87	1288.66	1313.17	1327.79	1375.56
292.5	934.68	1032.50	1097.57	1178.50	1260.45	1272.40	1308.02	1321.20	1365.47
315.0	899.47	989.05	1055.77	1113.63	1166.96	1205.06	1230.59	1242.13	1277.75
337.5	903.18	1000.37	1065.65	1121.25	1186.11	1215.15	1246.24	1243.36	1283.31
360.0	882.17	952.60	1016.43	1077.59	1132.16	1162.64	1191.26	1213.71	1242.13

C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	1257.36	1296.28	1287.22	1259.22	1198.47	1161.61	1097.16	1001.61	924.39
22.5	1267.66	1311.32	1300.20	1272.81	1201.56	1159.14	1087.27	1005.31	906.68
45.0	1228.53	1260.66	1249.13	1219.06	1177.47	1125.78	1050.00	974.43	891.44
67.5	1247.27	1266.01	1237.39	1225.03	1166.14	1112.19	1022.61	943.95	868.79
90.0	1357.24	1373.50	1378.65	1340.14	1303.28	1255.92	1164.90	1070.80	963.92
112.5	1341.17	1359.29	1361.77	1335.00	1256.13	1187.76	1106.22	1006.96	933.65
135.0	1297.31	1313.79	1319.76	1277.34	1234.51	1201.15	1104.57	1035.79	944.98
157.5	1275.28	1313.17	1309.05	1277.96	1226.47	1177.67	1097.36	1015.61	932.83
180.0	1296.90	1332.73	1332.94	1292.37	1234.71	1201.97	1128.66	1040.32	963.10
202.5	1317.49	1360.53	1353.94	1324.70	1241.51	1204.44	1134.84	1043.82	939.83
225.0	1260.25	1292.16	1294.84	1259.42	1219.47	1175.61	1110.75	1016.64	944.98
247.5	1234.09	1257.36	1250.77	1242.33	1190.03	1146.37	1062.97	1003.67	910.80
270.0	1412.63	1426.01	1416.75	1378.24	1340.35	1274.45	1195.17	1107.45	1013.96
292.5	1406.45	1418.60	1415.72	1372.06	1333.76	1259.63	1185.29	1098.60	1006.55
315.0	1317.70	1340.56	1339.11	1283.93	1261.69	1192.50	1097.98	1025.29	950.54
337.5	1296.49	1337.47	1330.88	1281.66	1252.22	1184.88	1117.54	1028.58	939.01
360.0	1257.36	1296.28	1287.22	1259.22	1198.47	1161.61	1097.16	1001.61	924.39

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	830.28	714.76	596.56	468.47	333.39	222.40	127.26	66.31	17.09
22.5	821.22	718.88	578.02	462.71	332.57	225.49	130.35	62.81	13.80
45.0	804.54	690.25	570.20	446.44	313.21	205.72	115.93	60.75	12.77
67.5	781.68	676.04	529.84	418.64	295.50	184.92	98.84	46.13	9.27
90.0	846.34	726.70	579.47	425.23	298.79	191.92	99.67	55.19	17.09
112.5	844.69	706.11	562.37	396.81	268.73	170.50	113.26	52.30	16.68
135.0	830.69	705.29	572.88	442.94	298.18	187.80	102.96	54.16	18.53
157.5	843.87	737.41	595.32	481.45	346.16	223.22	123.55	59.31	20.59
180.0	853.96	743.17	601.71	478.36	339.15	223.84	118.41	64.04	22.45
202.5	857.87	753.27	612.83	486.18	351.30	238.05	138.38	65.07	21.62
225.0	852.31	739.88	611.38	483.92	351.92	233.31	133.23	70.84	22.65
247.5	829.04	739.26	601.29	492.57	356.45	240.11	146.21	68.57	22.86
270.0	912.24	799.19	646.80	506.98	353.16	211.69	107.29	55.81	22.03
292.5	898.44	787.04	646.60	490.71	358.72	239.69	141.68	68.78	23.27
315.0	853.76	745.85	625.59	482.27	349.04	238.46	135.50	70.63	25.12
337.5	852.31	740.29	609.12	500.80	356.66	235.58	146.62	68.98	22.86
360.0	830.28	714.76	596.56	468.47	333.39	222.40	127.26	66.31	17.09

C/γ(°)	180.0
0.0	1.91
22.5	1.91
45.0	1.91
67.5	1.91
90.0	1.91
112.5	1.91
135.0	1.91
157.5	1.91
180.0	1.91
202.5	1.91
225.0	1.91
247.5	1.91
270.0	1.91
292.5	1.91
315.0	1.91
337.5	1.91
360.0	1.91

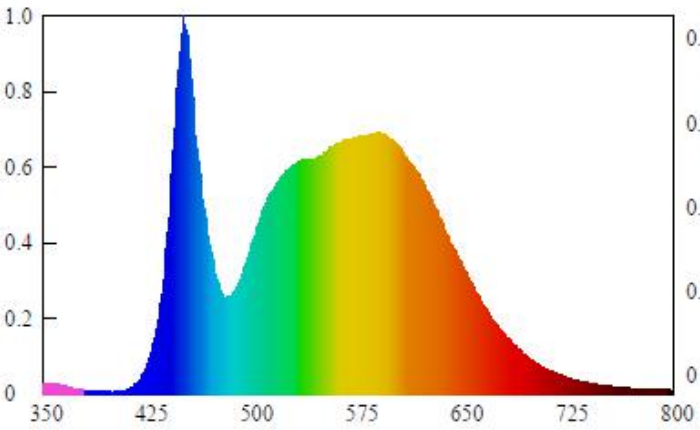
TEMP-100-850/25CP Tested at 277V

Test Condition

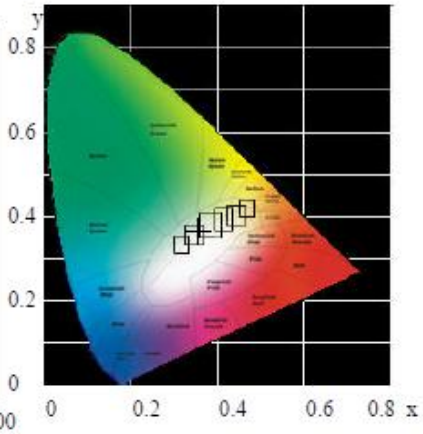
Temperature: 25°C RH: 58%

Spectrum Range: 350-800 nm Scan Step: 5 nm

Spectroradiometric Parameters



Spectral Distribution



CIE1931 Chromaticity Diagram

Chromaticity Coordinates: x=0.3504 y=0.3617 u'=0.2111 v'=0.4903

Correlated Color Temperature: 4846 K Dominant Wavelength: 571.0 nm(E)

Colour Fidelity Index: Rf=82 Gamut Index: Rg=95

Luminous Flux: 12220.60 lm Purity: 0.1369

Chromaticity Difference: +0.00292Duv Peak Wavelength: 450.0 nm

Color Ratio: Kr=34.2% Kg=54.8% Kb=11.0%

Bandwidth: 28.8nm Radiant Flux: 43.769 W

Rendering Index: Ra=83.5

R1=82	R2=88	R3=93	R4=83	R5=81	R6=83	R7=89	R8=69
R9=13	R10=72	R11=82	R12=57	R13=84	R14=96	R15=76	Re=77

Electric Parameters

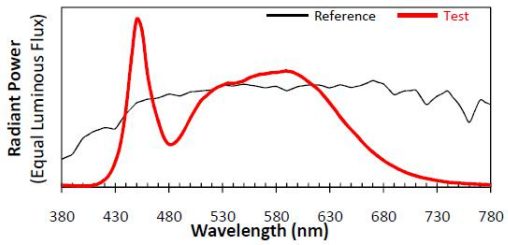
Voltage: 277.06 V Current: 0.404 A

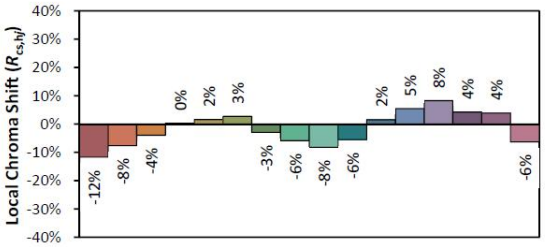
Power Factor: 0.892 Power: 99.76 W

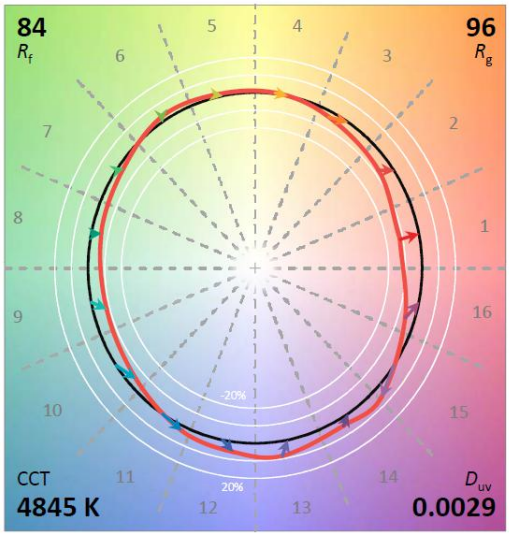
Luminous Efficacy: 122.5 lm/W

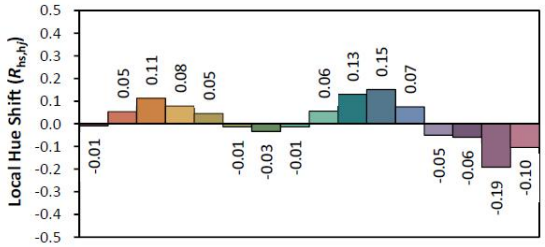
ANSI/IES TM-30-18 Color Rendition Report

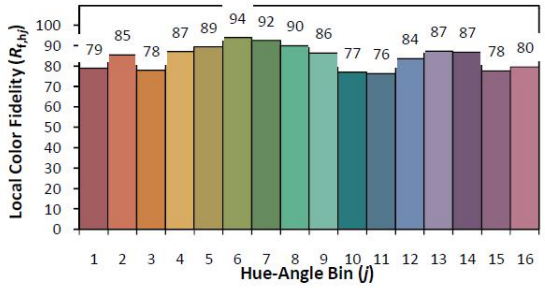
Source:	BL201015010-9B	**Manufacturer:**	RAB Lighting Inc
Date:	2020/10/22	**Model:**	TEMP-100-850/25CP

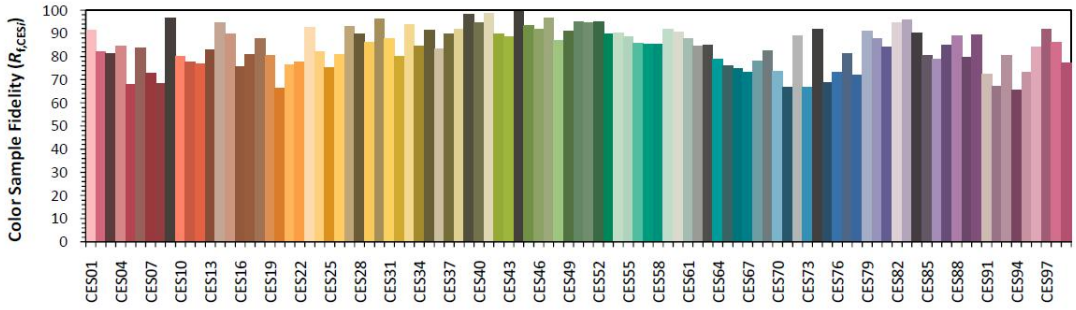












Notes: This is a recommended method for displaying ANSI/IES TM-30-18 information.

x	0.3504
y	0.3617
u'	0.2111
v'	0.4903

CIE 13.3-1995 (CRI)

R_a	84
R_9	12

Colors are for visual orientation purposes only. Created with the ANSI/IES TM-30-18 Calculator Version 2.00.

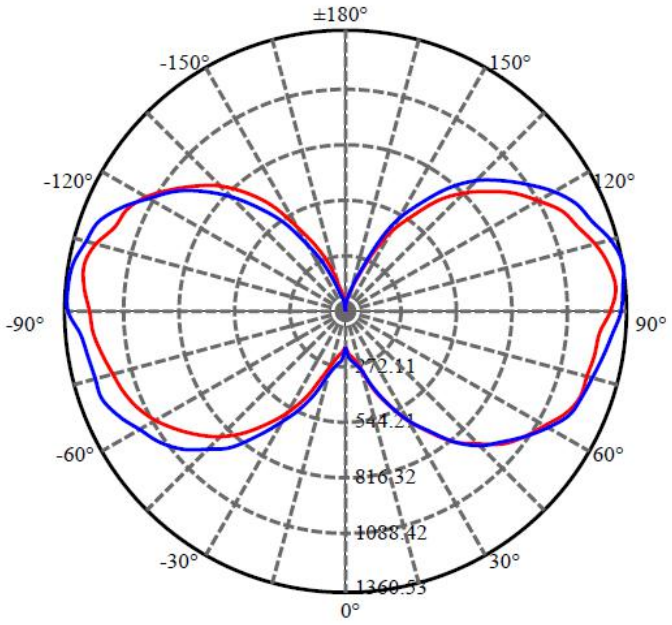
Zonal Flux Diagram

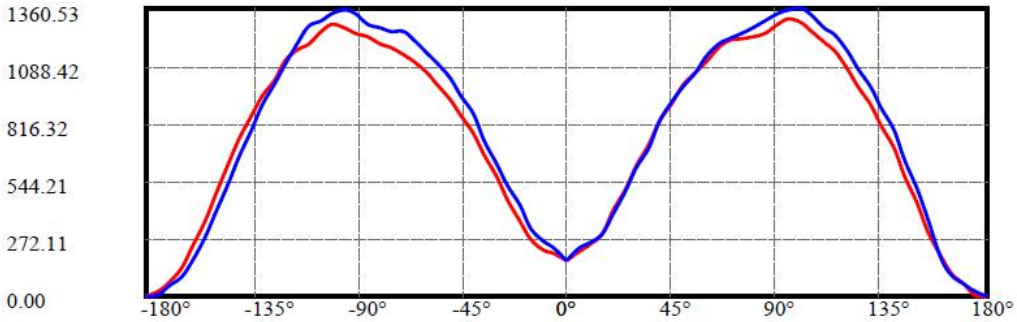
Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	172.478	0.000	0	0.00%	0.00%
5.0	208.535	4.555	4.555	0.00%	0.04%
10.0	239.707	16.035	20.59	0.00%	0.17%
15.0	292.951	31.597	52.187	0.00%	0.43%
20.0	387.250	56.058	108.245	0.00%	0.89%
25.0	489.465	91.951	200.196	0.00%	1.65%
30.0	581.641	135.549	335.745	0.00%	2.77%
35.0	693.740	187.809	523.554	0.00%	4.31%
40.0	799.764	249.180	772.734	0.00%	6.37%
45.0	886.793	312.280	1085.014	0.00%	8.94%
50.0	968.338	374.856	1459.87	0.00%	12.03%
55.0	1030.333	434.578	1894.448	0.00%	15.61%
60.0	1092.947	490.790	2385.238	0.00%	19.65%
65.0	1147.786	544.726	2929.964	0.00%	24.14%
70.0	1182.549	590.056	3520.02	0.00%	29.00%
75.0	1197.838	622.195	4142.215	0.00%	34.13%
80.0	1219.409	646.788	4789.003	0.00%	39.46%
85.0	1242.047	668.837	5457.84	0.00%	44.97%
90.0	1275.754	689.394	6147.233	0.00%	50.65%
95.0	1299.024	704.994	6852.228	0.00%	56.46%
100.0	1294.944	704.843	7557.071	0.00%	62.26%
105.0	1262.343	684.259	8241.33	0.00%	67.90%
110.0	1212.459	646.874	8888.203	0.00%	73.23%
115.0	1161.532	601.110	9489.313	0.00%	78.18%
120.0	1083.706	545.821	10035.134	0.00%	82.68%
125.0	1001.079	481.892	10517.027	0.00%	86.65%
130.0	916.780	417.006	10934.033	0.00%	90.09%
135.0	824.411	351.833	11285.866	0.00%	92.98%
140.0	715.066	285.047	11570.913	0.00%	95.33%
145.0	584.215	216.775	11787.688	0.00%	97.12%
150.0	456.144	153.200	11940.888	0.00%	98.38%
155.0	325.551	98.924	12039.812	0.00%	99.20%
160.0	210.273	56.198	12096.01	0.00%	99.66%
165.0	121.932	27.378	12123.389	0.00%	99.88%
170.0	61.867	10.903	12134.291	0.00%	99.97%
175.0	19.318	2.904	12137.196	0.00%	100.00%
180.0	1.998	0.255	12137.45	0.00%	100.00%

Luminous Intensity Distribution Diagram

Light Distribution Curve [Unit:cd]





C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:165.3 Right:163.6

:C90/270Left:162.1 Right:163.0

Beam Angle(50%Imax):C0/180Left:143.7 Right:141.5

:C90/270Left:139.3 Right:143.7

Luminous Intensity Distribution Data

C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	172.48	208.81	241.96	296.53	406.49	510.28	613.86	718.05	825.96
22.5	172.48	206.95	242.17	305.38	396.40	503.89	588.73	698.70	805.57
45.0	172.48	200.77	233.52	282.73	382.40	487.83	586.67	684.08	788.68
67.5	172.48	200.77	237.02	295.29	388.37	484.95	570.82	679.54	783.95
90.0	172.48	225.90	253.90	294.26	387.55	497.92	606.85	704.05	825.13
112.5	172.48	217.66	243.81	292.82	381.37	478.98	573.70	700.34	802.48
135.0	172.48	207.98	229.60	268.11	363.04	470.12	558.05	671.72	783.74
157.5	172.48	204.69	228.99	280.26	374.57	485.57	557.43	684.90	786.01
180.0	172.48	200.77	222.81	267.91	353.57	460.03	565.46	665.54	769.74
202.5	172.48	200.16	227.34	271.82	361.19	462.09	541.58	658.95	764.38
225.0	172.48	194.19	222.40	268.52	361.60	460.24	561.35	644.95	763.15
247.5	172.48	194.60	225.69	283.97	373.13	468.89	541.78	681.40	767.06
270.0	172.48	230.63	260.08	319.80	427.70	524.69	623.53	732.47	861.58
292.5	172.48	220.75	262.55	328.86	418.23	510.48	606.85	740.91	830.07
315.0	172.48	210.25	250.81	311.15	406.49	507.19	608.30	710.23	822.25
337.5	172.48	211.69	252.67	319.80	413.90	518.31	601.29	724.02	816.48
360.0	172.48	208.81	241.96	296.53	406.49	510.28	613.86	718.05	825.96

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	912.24	1000.78	1056.18	1106.22	1172.94	1208.15	1215.36	1226.68	1239.24
22.5	896.79	970.93	1039.29	1120.84	1169.02	1212.88	1228.33	1251.60	1272.40
45.0	881.76	960.83	1019.11	1082.33	1131.34	1174.38	1176.64	1206.29	1232.03
67.5	867.14	946.01	1024.67	1097.98	1135.46	1158.11	1179.32	1201.56	1225.65
90.0	923.56	987.81	1058.44	1129.49	1191.88	1218.03	1240.48	1264.78	1299.17
112.5	887.32	976.28	1042.38	1113.42	1194.35	1207.53	1235.95	1259.22	1299.99
135.0	867.14	948.48	1018.08	1072.65	1123.72	1158.52	1192.29	1204.65	1234.92
157.5	872.29	956.72	1023.44	1080.68	1137.52	1154.81	1193.12	1216.38	1247.48
180.0	855.81	930.77	995.22	1056.59	1104.77	1139.16	1170.46	1195.59	1222.56
202.5	852.73	930.15	987.40	1067.91	1112.60	1138.75	1173.76	1208.35	1248.30
225.0	850.87	923.97	984.72	1043.00	1078.42	1123.51	1135.05	1173.96	1204.44
247.5	845.93	924.80	978.13	1043.82	1095.10	1117.13	1125.57	1165.73	1187.97
270.0	942.51	1032.70	1099.42	1146.37	1206.50	1250.77	1254.69	1268.90	1283.10
292.5	918.21	1004.08	1047.12	1114.87	1189.20	1233.89	1234.09	1241.92	1242.74
315.0	908.12	995.02	1061.94	1091.80	1162.43	1217.00	1204.24	1215.77	1215.77
337.5	906.27	1004.08	1049.79	1119.19	1159.34	1208.15	1206.09	1209.18	1217.00
360.0	912.24	1000.78	1056.18	1106.22	1172.94	1208.15	1215.36	1226.68	1239.24

C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	1281.25	1310.90	1295.46	1253.66	1202.38	1153.78	1072.03	991.72	907.09
22.5	1299.78	1338.91	1313.79	1284.13	1200.94	1161.82	1081.71	992.96	896.79
45.0	1257.36	1285.37	1269.31	1232.65	1198.88	1130.52	1058.44	980.19	891.03
67.5	1247.48	1272.40	1243.15	1227.30	1173.96	1117.75	1028.79	964.75	878.47
90.0	1338.29	1348.18	1360.53	1324.29	1270.75	1231.83	1159.96	1072.65	985.34
112.5	1342.41	1345.91	1358.68	1326.14	1289.49	1232.65	1151.31	1078.62	996.46
135.0	1275.48	1287.22	1310.49	1255.92	1224.00	1194.15	1110.95	1036.41	967.42
157.5	1267.25	1297.52	1309.67	1263.95	1235.95	1179.73	1110.54	1028.79	942.30
180.0	1239.24	1269.72	1284.13	1253.66	1190.85	1163.46	1112.81	1022.20	942.51
202.5	1246.86	1290.11	1295.87	1274.45	1213.91	1171.08	1107.25	1023.64	929.33
225.0	1212.47	1246.04	1251.19	1224.00	1174.99	1139.16	1083.15	990.28	921.50
247.5	1205.47	1232.24	1221.12	1213.91	1155.02	1112.81	1023.44	955.89	873.52
270.0	1339.11	1351.88	1338.70	1301.84	1271.98	1199.50	1096.33	1007.99	902.97
292.5	1311.93	1320.79	1309.26	1278.37	1203.62	1130.52	1047.94	939.42	868.17
315.0	1285.99	1295.66	1285.78	1245.63	1204.85	1135.46	1043.20	970.51	878.88
337.5	1261.69	1291.55	1271.98	1237.59	1187.76	1130.31	1051.44	961.25	886.70
360.0	1281.25	1310.90	1295.46	1253.66	1202.38	1153.78	1072.03	991.72	907.09

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	805.16	697.25	562.37	436.35	307.44	195.01	106.26	58.07	12.56
22.5	814.84	699.93	563.82	437.17	321.24	209.01	116.55	57.04	11.53
45.0	805.98	689.22	568.96	449.53	313.83	204.28	115.93	60.13	10.09
67.5	789.71	691.28	567.73	450.56	324.95	208.39	123.55	56.63	13.39
90.0	890.41	783.95	643.92	509.66	361.81	184.71	104.20	59.31	26.36
112.5	888.56	791.57	656.28	509.45	377.66	256.17	162.27	75.16	30.48
135.0	864.26	769.33	637.12	505.33	371.28	249.58	142.91	75.99	33.15
157.5	853.34	762.12	634.45	510.28	369.01	249.78	160.21	78.87	31.71
180.0	852.52	745.85	624.15	480.21	355.01	238.05	135.29	71.66	28.62
202.5	849.02	739.88	605.82	494.63	365.92	241.75	150.53	72.49	24.09
225.0	829.66	729.17	608.71	472.80	339.36	228.16	131.58	68.57	23.06
247.5	792.80	699.73	573.91	452.41	323.92	215.40	121.29	57.86	20.39
270.0	789.92	661.63	531.90	393.72	278.82	170.09	89.78	51.07	10.71
292.5	795.89	651.13	509.66	369.01	222.60	149.50	93.49	44.89	9.88
315.0	773.86	648.66	515.84	394.55	266.88	164.33	90.19	49.01	11.12
337.5	794.66	680.37	542.81	432.64	309.09	200.16	106.87	53.13	11.94
360.0	805.16	697.25	562.37	436.35	307.44	195.01	106.26	58.07	12.56

C/γ(°)	180.0
0.0	2.00
22.5	2.00
45.0	2.00
67.5	2.00
90.0	2.00
112.5	2.00
135.0	2.00
157.5	2.00
180.0	2.00
202.5	2.00
225.0	2.00
247.5	2.00
270.0	2.00
292.5	2.00
315.0	2.00
337.5	2.00
360.0	2.00

5 Additional Test

Electrical data at 120V, 277V

Model Number	Test Item	Test Voltage (V)	Frequency(Hz)	Test Result
TEMP-100-850/25CP	Power Factor	120	60	0.988
	THD	120	60	14.7%
	Power Factor	277	60	0.892
	THD	277	60	16.1%

Photo Document

****End of test report****