

# LUMINAIRE PHOTOMETRIC TEST REPORT

## LAMP PHOTOMETRIC REPORT

MODEL: TLP-F-3012W-72

POWER: 72W

VOLTAGE: 230V

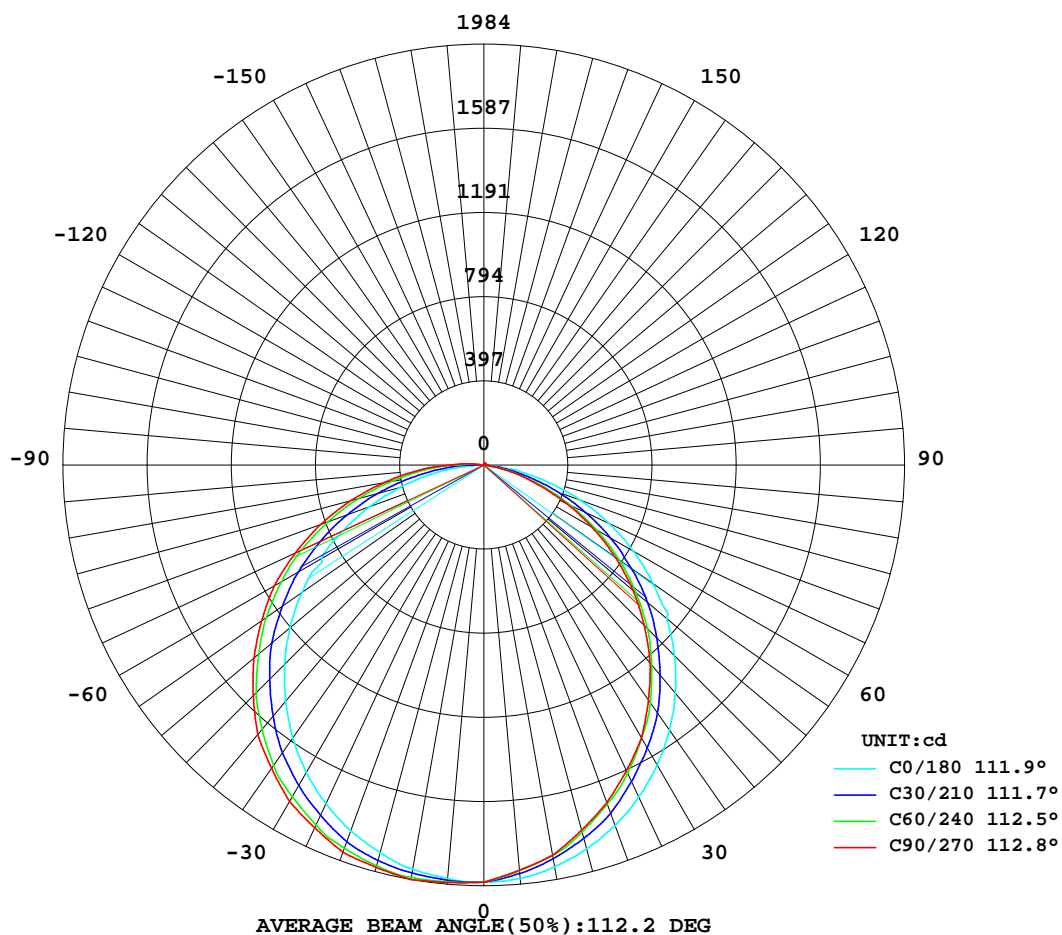
WORKING VOLTAGE: 219.6V

MANUFACTURER: SGSLIGHT LIMITED

TOTAL FLUX: 5650.0 lm

Efficiency: 76.976 lm/W

Test: U: 229.6V I: 0.339A P: 73.40W PF: 0.944



Test System:HOPPO HPG1900  
Temperature:25.3DEG  
Operators:TOM CHEN  
Test Date:2015-04-13

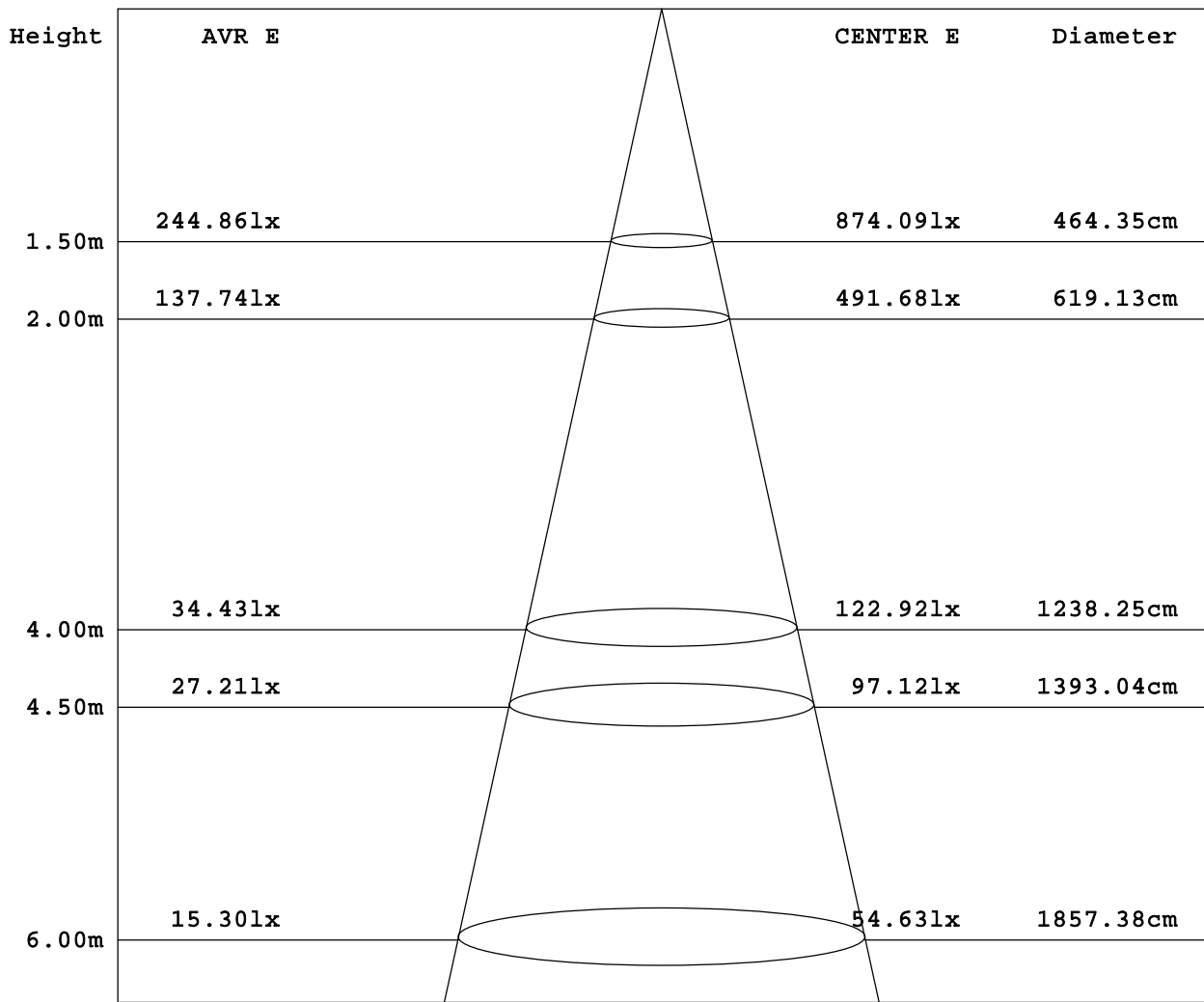
Test Set: 8.0deg/s B-Beta (TYPE B)  
Humidity:65.0%  
Test Distance:7.000 m  
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER: SGSLIGHT LIMITED	Address:	
NAME: LED PANEL	TYPE:	WEIGHT:
SPECIFICATION:TLP-F-3012W-72	DIMENSION: 296X1196X11MM SERIAL No.:	



Angle:114.3deg

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:TOM CHEN  
 Test Date:2015-04-13

Test Set: 8.0deg/s B-Beta (TYPE B)  
 Humidity:65.0%  
 Test Distance:7.000 m  
 Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER: SGSLIGHT LIMITED		Address:	
NAME: LED PANEL		TYPE:	WEIGHT:
SPECIFICATION:TLP-F-3012W-72		DIMENSION: 296X1196X11MM SERIAL No.:	

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	zone	total
5.0	1957	1970	1975	1967	1957	1926	1918	1930	0- 5	46.76	46.76
10.0	1935	1964	1984	1959	1924	1875	1869	1885	5- 10	138.4	185.2
15.0	1893	1950	1964	1930	1873	1808	1782	1827	10- 15	225.3	410.6
20.0	1836	1904	1943	1887	1810	1718	1695	1741	15- 20	304.1	714.7
25.0	1760	1851	1888	1831	1728	1621	1591	1649	20- 25	372.8	1088
30.0	1675	1779	1832	1757	1633	1506	1487	1539	25- 30	428.6	1516
35.0	1571	1693	1746	1665	1527	1388	1354	1421	30- 35	470.3	1987
40.0	1453	1598	1659	1565	1405	1260	1220	1296	35- 40	495.8	2483
45.0	1330	1476	1538	1444	1270	1114	1069	1150	40- 45	504.9	2987
50.0	1194	1352	1416	1325	1125	967.2	918.3	1003	45- 50	496.7	3484
55.0	1046	1209	1279	1179	973.9	807.9	754.8	842.4	50- 55	472.3	3957
60.0	884.9	1079	1142	1034	814.0	649.2	591.2	681.4	55- 60	431.6	4388
65.0	733.7	904.0	980.0	879.5	651.9	483.8	431.0	515.4	60- 65	377.7	4766
70.0	573.7	739.4	818.3	720.0	481.1	327.7	270.8	355.3	65- 70	311.5	5077
75.0	408.2	568.8	647.0	555.9	311.0	183.4	150.8	202.4	70- 75	238.1	5316
80.0	252.8	398.9	475.7	388.3	163.3	73.99	30.89	87.87	75- 80	162.8	5478
85.0	105.6	242.5	317.6	232.7	22.11	10.08	15.89	18.02	80- 85	93.76	5572
90.0	6.302	100.4	159.5	93.46	0.394	0.732	0.900	0.957	85- 90	44.11	5616
95.0	0	29.90	80.12	27.96	0	1.176	1.434	1.472	90- 95	16.76	5633
100.0	0	0	0.675	0	0	1.666	1.969	1.980	95-100	4.070	5637
105.0	0	0	0	0	1.519	2.132	2.504	2.637	100-105	0.476	5638
110.0	0	0	0	0	2.588	2.625	3.038	3.199	105-110	0.617	5638
115.0	0	0	0	0	3.263	3.175	3.573	3.888	110-115	0.753	5639
120.0	0	0	0	0	3.488	3.601	4.107	4.267	115-120	0.870	5640
125.0	0	0	0	0	4.670	4.254	4.642	4.883	120-125	0.975	5641
130.0	0	0	0	0	5.739	4.660	5.176	5.504	125-130	1.067	5642
135.0	0	0	0	0	6.302	5.351	5.711	6.248	130-135	1.134	5643
140.0	0	0	0	0	7.315	6.060	6.245	7.020	135-140	1.164	5644
145.0	0	0	0	0	7.821	6.488	6.780	7.464	140-145	1.142	5645
150.0	0	0	0	0	8.327	7.233	7.315	8.031	145-150	1.095	5646
155.0	0	0	0	0	8.834	7.651	7.849	8.549	150-155	1.019	5647
160.0	0	0	0	0	9.397	8.441	8.384	9.092	155-160	0.901	5648
165.0	0	0	0	0	9.903	9.262	8.918	9.041	160-165	0.748	5649
170.0	0	0	0	0	10.40	9.728	9.453	9.797	165-170	0.566	5650
175.0	0	0	0	0	10.46	10.08	9.987	10.20	170-175	0.356	5650
180.0	0	0	0	0	10.52	10.52	10.52	10.52	175-180	0.123	5650
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:TOM CHEN  
 Test Date:2015-04-13

Test Set: 8.0deg/s B-Beta (TYPE B)  
 Humidity:65.0%  
 Test Distance:7.000 m  
 Remarks:

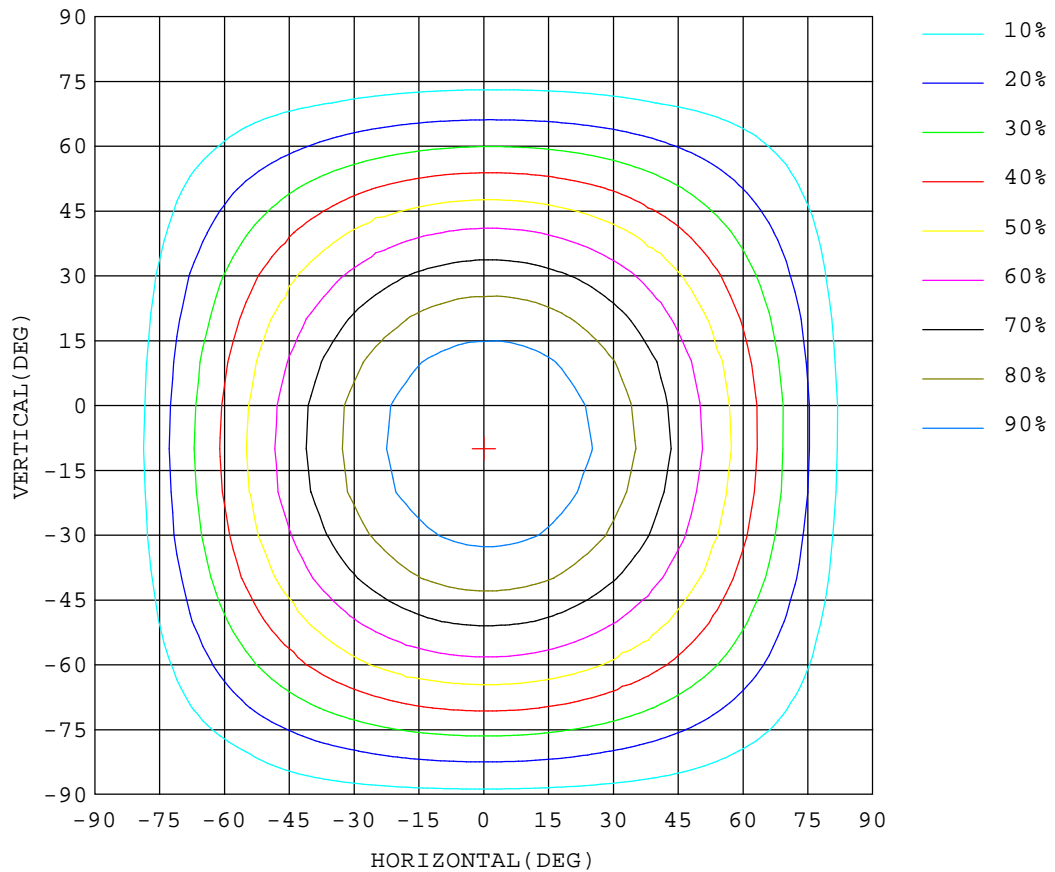
# LUMINAIRE PHOTOMETRIC TEST REPORT

## ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: SGSLIGHT LIMITED	Address:	
NAME: LED PANEL	TYPE:	WEIGHT:
SPECIFICATION:TLP-F-3012W-72	DIMENSION: 296X1196X11MM SERIAL No.:	

UNIT: cd



Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:TOM CHEN  
 Test Date:2015-04-13

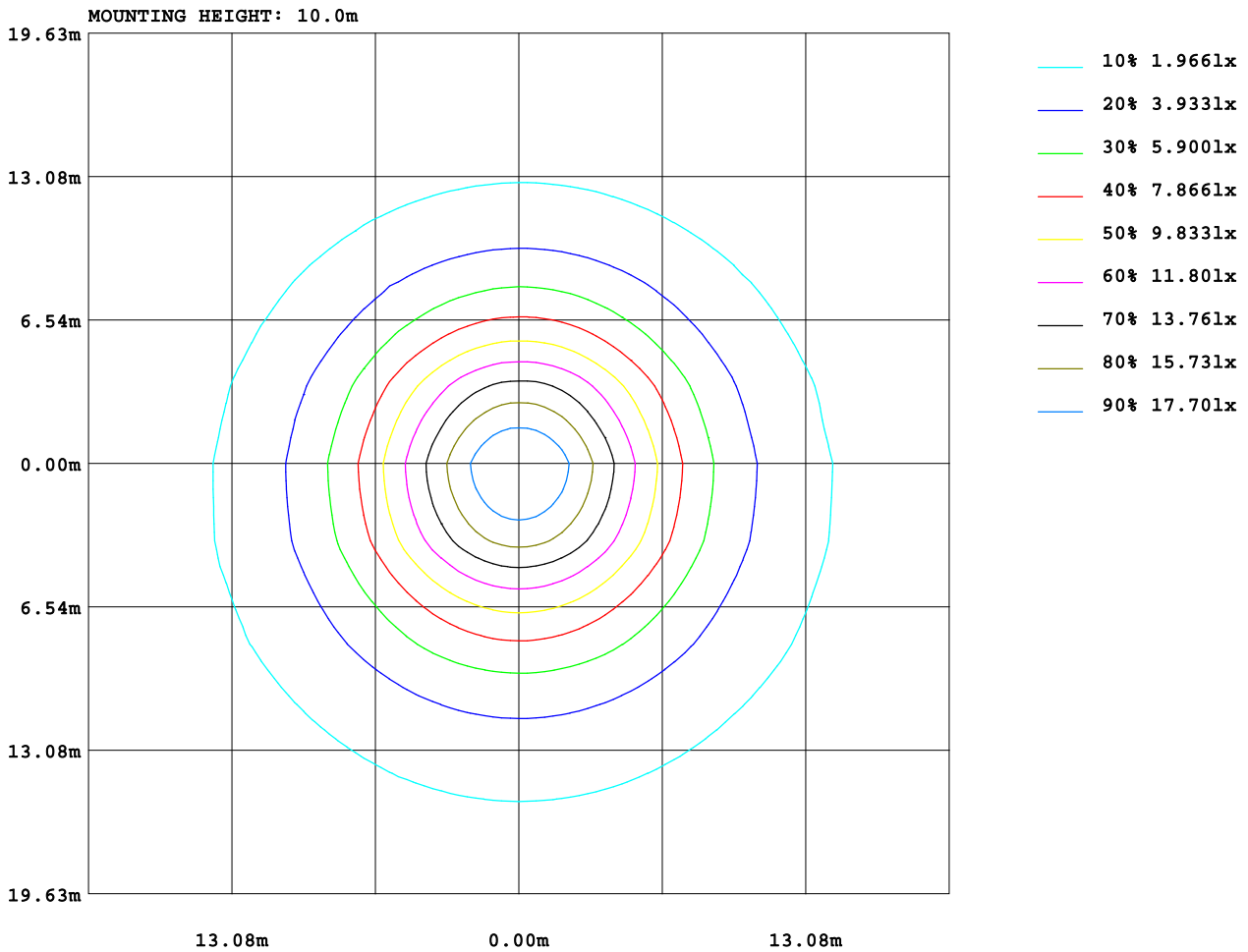
Test Set: 8.0deg/s B-Beta (TYPE B)  
 Humidity:65.0%  
 Test Distance:7.000 m  
 Remarks:

# LUMINAIRE PHOTOMETRIC TEST REPORT

## ISOLUX DIAGRAM

Report number:

MANUFACTURER: SGSLIGHT LIMITED	Address:	
NAME: LED PANEL	TYPE:	WEIGHT:
SPECIFICATION:TLP-F-3012W-72	DIMENSION: 296X1196X11MM SERIAL No.:	



Test System:HOPPO HPG1900  
 Temperature:25.3DEG  
 Operators:TOM CHEN  
 Test Date:2015-04-13

Test Set: 8.0deg/s B-Beta (TYPE B)  
 Humidity:65.0%  
 Test Distance:7.000 m  
 Remarks:

# LUMINAIRE PHOTOMETRIC TEST REPORT

## AREA LUMINOUS FLUX

Report number:

MANUFACTURER: SGSLIGHT LIMITED					Address:									
NAME: LED PANEL					TYPE:					WEIGHT:				
SPECIFICATION:TLP-F-3012W-72					DIMENSION: 296X1196X11MM					SERIAL No.:				

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm			Φ t	Φ a
	0.00	0.00	0.00	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	0.00	0.00	0.00	0.14	0.14
90	0.00	0.00	0.04	0.20	0.44	0.72	0.97	1.18	1.34	1.41	1.37	1.23	1.03	0.80	0.52	0.25	0.08	0.01	11.6	11.6	
80	0.02	0.39	1.40	3.02	5.02	7.18	9.21	10.8	11.7	11.8	11.0	9.60	7.65	5.50	3.47	1.82	0.65	0.07	100	100	
70	0.04	0.72	2.69	5.87	9.81	14.0	17.8	20.8	22.5	22.6	21.3	18.5	14.8	10.6	6.68	3.38	1.15	0.14	194	194	
60	0.08	1.20	4.31	8.98	14.7	20.7	26.1	30.2	32.5	32.6	30.6	26.7	21.5	15.5	9.80	4.96	1.68	0.18	283	283	
50	0.09	1.60	5.56	11.5	18.8	26.3	33.3	38.2	41.1	41.3	38.7	33.9	27.3	19.9	12.7	6.53	2.26	0.26	360	360	
40	0.12	2.08	6.87	13.9	22.3	31.2	39.0	45.2	48.6	48.9	45.8	40.1	32.4	23.8	15.1	7.82	2.69	0.33	427	427	
30	0.17	2.34	7.67	15.6	25.2	34.9	43.8	50.4	54.2	54.5	51.3	44.8	36.2	26.4	16.8	8.85	3.11	0.36	477	477	
20	0.18	2.61	8.44	16.8	27.0	37.7	47.0	54.5	58.7	58.9	55.2	48.2	38.9	28.5	18.5	9.52	3.31	0.41	515	515	
10	0.22	2.67	8.71	17.6	28.1	38.9	48.8	56.4	60.7	60.7	56.8	49.7	40.0	29.2	18.6	9.78	3.45	0.41	531	531	
0	0.17	2.72	8.71	17.2	27.8	38.4	48.2	55.7	59.9	60.1	56.5	49.5	39.9	29.1	18.8	9.65	3.35	0.42	527	527	
-10	0.20	2.53	8.32	16.9	26.9	37.2	46.7	53.8	57.8	57.9	54.1	47.1	37.8	27.6	17.5	9.20	3.23	0.37	506	506	
-20	0.12	2.35	7.64	15.2	24.5	34.2	42.9	49.6	53.3	53.6	50.3	43.8	35.3	25.8	16.6	8.42	2.87	0.36	467	467	
-30	0.13	1.93	6.63	13.6	21.8	30.3	38.0	44.0	47.2	47.3	44.3	38.6	30.9	22.5	14.1	7.33	2.53	0.27	412	412	
-40	0.07	1.54	5.42	11.1	17.8	25.0	31.5	36.3	38.9	39.0	36.7	31.9	25.8	18.6	11.7	5.92	1.96	0.23	340	340	
-50	0.04	1.04	3.87	8.39	13.7	19.3	24.3	28.2	30.2	30.2	28.3	24.5	19.4	14.1	8.79	4.41	1.44	0.13	261	261	
-60	0.03	0.56	2.31	5.24	8.82	12.4	15.7	18.3	19.7	19.7	18.4	15.9	12.6	8.96	5.50	2.71	0.86	0.09	168	168	
-70	0.00	0.12	0.71	1.94	3.79	5.70	7.32	8.51	9.17	9.16	8.50	7.27	5.68	4.01	2.46	1.23	0.41	0.05	76.0	76.0	
-80																					
-90																					
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)				20	30	40	50	60	70	80	90	
Φ t	1.67	26.4	89.3	184	297	415	521	603	648	651	610	532	428	312	198	102	35.1	4.08	5650		
Φ a	1.67	26.4	89.3	184	297	415	521	603	648	651	610	532	428	312	198	102	35.1	4.08		5650	

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:TOM CHEN  
 Test Date:2015-04-13

Test Set: 8.0deg/s B-Beta (TYPE B)  
 Humidity:65.0%  
 Test Distance:7.000 m  
 Remarks:

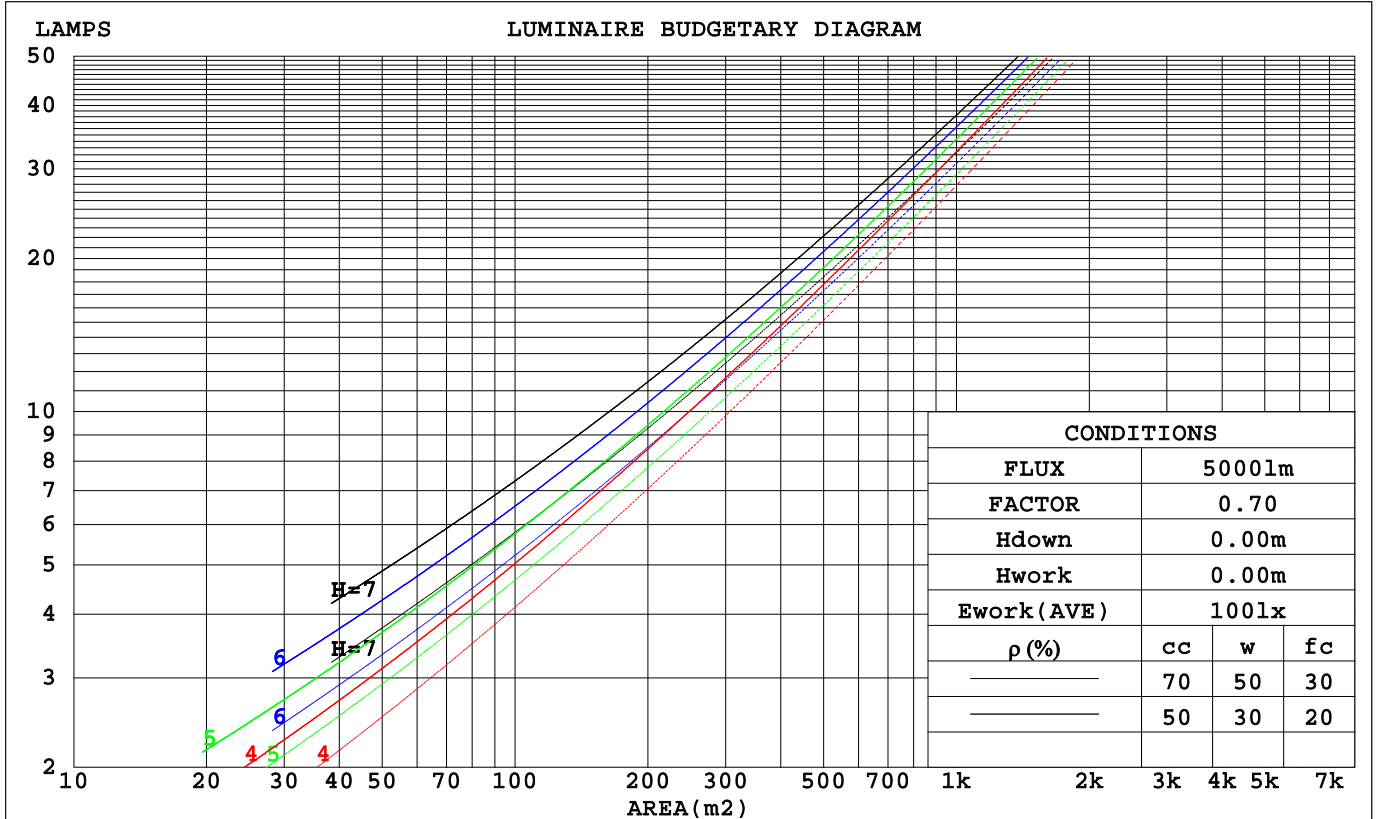
LUMINAIRE PHOTOMETRIC TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER: SGSLIGHT LIMITED				Address:							
NAME: LED PANEL				TYPE:				WEIGHT:			
SPECIFICATION:TLP-F-3012W-72				DIMENSION: 296X1196X11MM				SERIAL No.:			

ρcc	80%			70%			50%			30%			10%			0														
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%															
ρw	20%			20%			20%			20%			20%			0														
ρfc	20%			20%			20%			20%			20%																	
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	1.01	1.01	1.01	.99														
1.0	1.03	.99	.95	1.01	.97	.93	.97	.93	.90	.93	.90	.87	.89	.87	.85	.83														
2.0	.90	.83	.77	.88	.82	.76	.84	.79	.74	.81	.76	.73	.78	.74	.71	.69														
3.0	.79	.71	.64	.77	.70	.63	.74	.68	.62	.71	.66	.61	.69	.64	.60	.58														
4.0	.70	.61	.54	.68	.60	.54	.66	.59	.53	.63	.57	.52	.61	.56	.51	.49														
5.0	.62	.53	.47	.61	.53	.46	.59	.51	.46	.57	.50	.45	.55	.49	.45	.42														
6.0	.56	.47	.41	.55	.47	.40	.53	.46	.40	.51	.45	.40	.50	.44	.39	.37														
7.0	.51	.42	.36	.50	.42	.36	.48	.41	.35	.47	.40	.35	.45	.39	.35	.33														
8.0	.46	.38	.32	.46	.37	.32	.44	.37	.32	.43	.36	.31	.42	.36	.31	.29														
9.0	.43	.34	.29	.42	.34	.29	.41	.34	.28	.40	.33	.28	.39	.33	.28	.26														
10.0	.39	.31	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.25	.24														



Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:TOM CHEN  
 Test Date:2015-04-13

Test Set: 8.0deg/s B-Beta (TYPE B)  
 Humidity:65.0%  
 Test Distance:7.000 m  
 Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

WEC AND CCEC

Report number:

MANUFACTURER: SGSLIGHT LIMITED	Address:		
NAME: LED PANEL	TYPE:	WEIGHT:	
SPECIFICATION:TLP-F-3012W-72	DIMENSION: 296X1196X11MM SERIAL No.:		

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.316	.180	.057	.309	.176	.056	.295	.169	.054	.282	.163	.052	.271	.157	.051	
2.0	.295	.162	.050	.288	.159	.049	.276	.154	.048	.265	.149	.047	.255	.144	.045	
3.0	.272	.145	.043	.266	.143	.043	.256	.138	.042	.246	.135	.041	.237	.131	.041	
4.0	.250	.130	.038	.245	.128	.038	.236	.125	.037	.227	.122	.037	.219	.119	.036	
5.0	.231	.118	.034	.227	.116	.034	.218	.114	.033	.211	.111	.033	.203	.109	.033	
6.0	.214	.107	.031	.210	.106	.031	.203	.104	.030	.196	.102	.030	.189	.100	.030	
7.0	.199	.099	.028	.196	.098	.028	.189	.096	.028	.183	.094	.027	.177	.092	.027	
8.0	.186	.091	.026	.183	.090	.025	.177	.088	.025	.171	.087	.025	.166	.085	.025	
9.0	.174	.084	.024	.171	.084	.023	.166	.082	.023	.161	.081	.023	.156	.079	.023	
10.0	.164	.079	.022	.161	.078	.022	.156	.077	.022	.152	.075	.021	.147	.074	.021	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.195	.195	.195	.167	.167	.167	.114	.114	.114	.065	.065	.065	.021	.021	.021	
1.0	.185	.161	.138	.159	.138	.119	.108	.095	.082	.062	.055	.048	.020	.018	.016	
2.0	.177	.137	.102	.152	.118	.088	.104	.081	.062	.060	.047	.036	.019	.015	.012	
3.0	.170	.119	.079	.145	.103	.068	.100	.071	.048	.058	.042	.028	.019	.014	.009	
4.0	.162	.106	.063	.139	.091	.055	.096	.064	.038	.055	.037	.023	.018	.012	.007	
5.0	.154	.095	.052	.133	.082	.045	.091	.058	.032	.053	.034	.019	.017	.011	.006	
6.0	.147	.087	.044	.127	.075	.038	.087	.053	.027	.051	.031	.016	.016	.010	.005	
7.0	.140	.080	.038	.121	.069	.033	.083	.049	.023	.048	.029	.014	.016	.009	.005	
8.0	.134	.074	.033	.115	.064	.029	.080	.045	.021	.046	.027	.012	.015	.009	.004	
9.0	.128	.069	.030	.110	.060	.026	.076	.042	.019	.044	.025	.011	.014	.008	.004	
10.0	.122	.065	.027	.105	.056	.024	.073	.040	.017	.043	.023	.010	.014	.008	.003	

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:TOM CHEN  
 Test Date:2015-04-13

Test Set: 8.0deg/s B-Beta (TYPE B)  
 Humidity:65.0%  
 Test Distance:7.000 m  
 Remarks:



LUMINAIRE PHOTOMETRIC TEST REPORT

Uncorrected UGR Table

Report number:

MANUFACTURER: SGSLIGHT LIMITED					Address:					
NAME: LED PANEL					TYPE:			WEIGHT:		
SPECIFICATION:TLP-F-3012W-72					DIMENSION: 296X1196X11MM SERIAL No.:					
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	19.1	20.6	19.3	20.8	21.0	20.0	21.5	20.3	21.7	21.9
3H	20.6	22.0	20.9	22.3	22.5	22.0	23.4	22.3	23.6	23.9
4H	21.3	22.6	21.6	22.9	23.2	22.9	24.2	23.2	24.5	24.8
6H	21.8	23.0	22.1	23.3	23.6	23.7	25.0	24.1	25.3	25.6
8H	21.9	23.1	22.3	23.4	23.7	24.1	25.3	24.5	25.6	25.9
12H	22.0	23.2	22.3	23.5	23.8	24.5	25.7	24.9	26.0	26.3
4H 2H	19.9	21.3	20.2	21.5	21.8	20.6	21.9	20.9	22.2	22.5
3H	21.7	22.9	22.1	23.2	23.5	22.8	24.0	23.2	24.3	24.6
4H	22.5	23.6	22.9	23.9	24.3	23.9	25.0	24.3	25.3	25.6
6H	23.1	24.1	23.5	24.4	24.8	24.9	25.9	25.3	26.2	26.6
8H	23.3	24.2	23.7	24.6	25.0	25.4	26.3	25.8	26.7	27.1
12H	23.4	24.3	23.9	24.7	25.1	25.9	26.7	26.3	27.1	27.5
8H 4H	23.0	23.9	23.4	24.3	24.7	24.2	25.1	24.6	25.5	25.9
6H	23.9	24.6	24.3	25.0	25.5	25.4	26.2	25.9	26.6	27.0
8H	24.2	24.8	24.6	25.3	25.7	26.1	26.7	26.6	27.2	27.6
12H	24.4	25.0	24.9	25.4	25.9	26.8	27.3	27.2	27.8	28.3
12H 4H	23.1	23.9	23.6	24.3	24.8	24.2	25.0	24.7	25.4	25.9
6H	24.0	24.7	24.5	25.1	25.6	25.5	26.2	26.0	26.6	27.1
8H	24.4	25.0	24.9	25.5	26.0	26.2	26.8	26.7	27.3	27.8
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.4					+ 0.2 / - 0.3				

CIE Pub.117 Corrected 5650 lm Total Lamp Luminous Flux.(8log(F/F0) = 6.0)

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:TOM CHEN  
 Test Date:2015-04-13

Test Set: 8.0deg/s B-Beta (TYPE B)  
 Humidity:65.0%  
 Test Distance:7.000 m  
 Remarks:

# LUMINAIRE PHOTOMETRIC TEST REPORT

## UTILIZATION FACTORS TABLE

Report number:

MANUFACTURER: SGSLIGHT LIMITED	Address:	
NAME: LED PANEL	TYPE:	WEIGHT:
SPECIFICATION:TLP-F-3012W-72	DIMENSION: 296X1196X11MM SERIAL No.:	

REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	57	45	38	56	45	38	55	45	38	32
0.80	67	55	48	66	55	48	64	54	47	40
1.00	75	64	57	74	64	57	72	65	56	49
1.25	83	72	65	81	71	64	78	70	63	56
1.50	88	78	70	86	77	70	83	75	69	61
2.00	94	86	79	93	84	78	89	82	77	69
2.50	98	90	84	96	89	83	92	86	81	73
3.00	102	95	89	100	93	88	95	90	86	77
4.00	106	100	95	103	98	94	99	95	91	82
5.00	108	103	99	106	101	97	101	98	94	85
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

Test System:HOPPO HPG1900  
 Temperature:25.3DEG  
 Operators:TOM CHEN  
 Test Date:2015-04-13

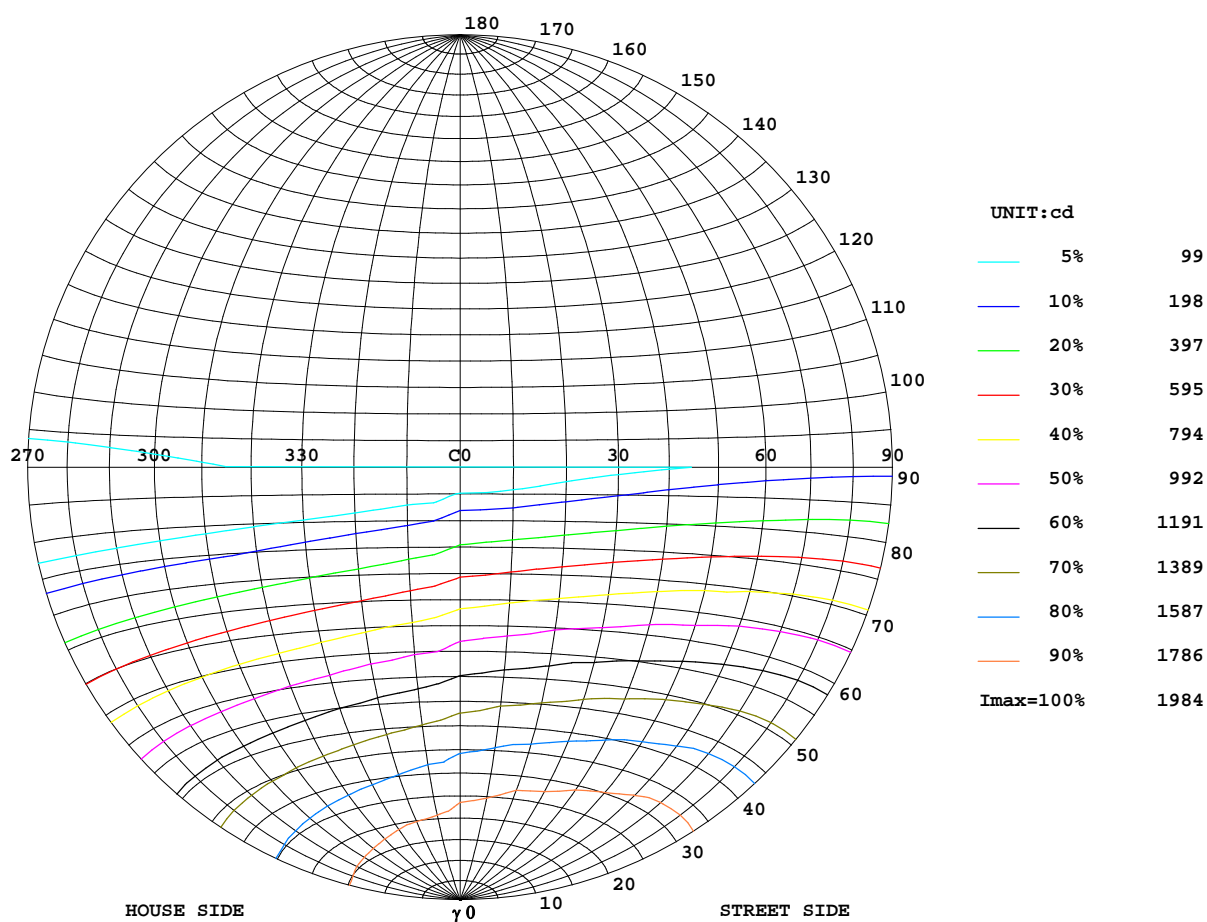
Test Set: 8.0deg/s B-Beta (TYPE B)  
 Humidity:65.0%  
 Test Distance:7.000 m  
 Remarks:

# LUMINAIRE PHOTOMETRIC TEST REPORT

## ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: SGSLIGHT LIMITED	Address:	
NAME: LED PANEL	TYPE:	WEIGHT:
SPECIFICATION:TLP-F-3012W-72	DIMENSION: 296X1196X11MM SERIAL No.:	



Test System:HOPPOO HPG1900  
 Temperature:25.3DEG  
 Operators:TOM CHEN  
 Test Date:2015-04-13

Test Set: 8.0deg/s B-Beta (TYPE B)  
 Humidity:65.0%  
 Test Distance:7.000 m  
 Remarks:

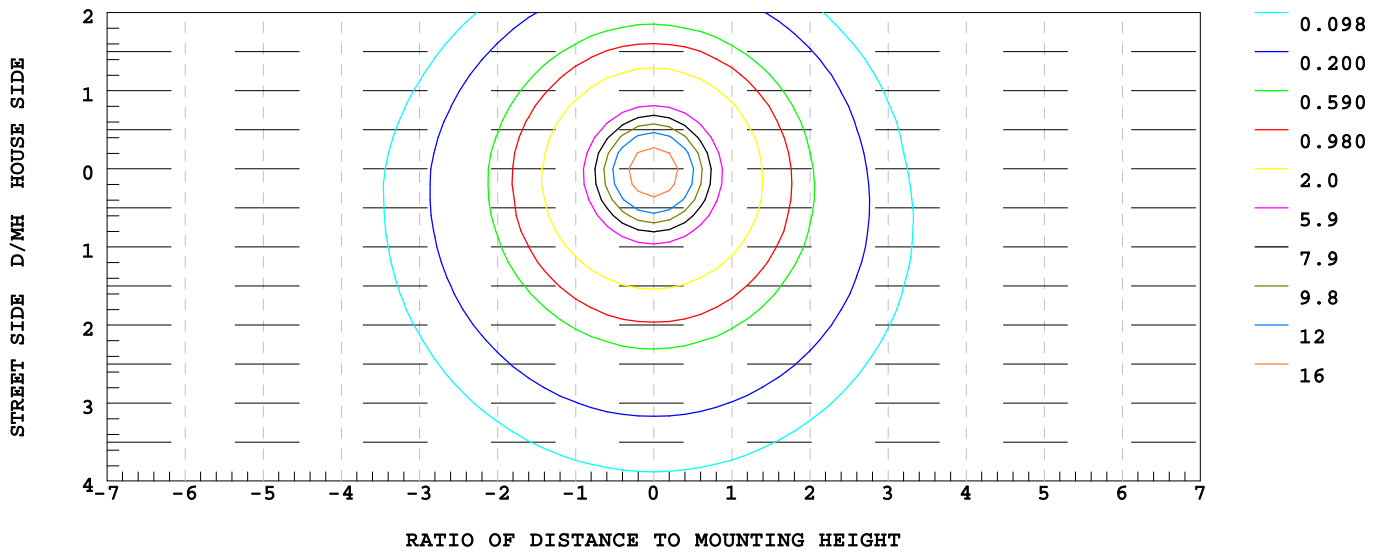
LUMINAIRE PHOTOMETRIC TEST REPORT

ISOLUX DIAGRAM

Report number:

MANUFACTURER: SGSLIGHT LIMITED	Address:	
NAME: LED PANEL	TYPE:	WEIGHT:
SPECIFICATION:TLP-F-3012W-72	DIMENSION: 296X1196X11MM SERIAL No.:	

ILLUMINANCE AT MH=10 m, Enadir = 19.67 lx



Test System:HOPPO HPG1900  
 Temperature:25.3DEG  
 Operators:TOM CHEN  
 Test Date:2015-04-13

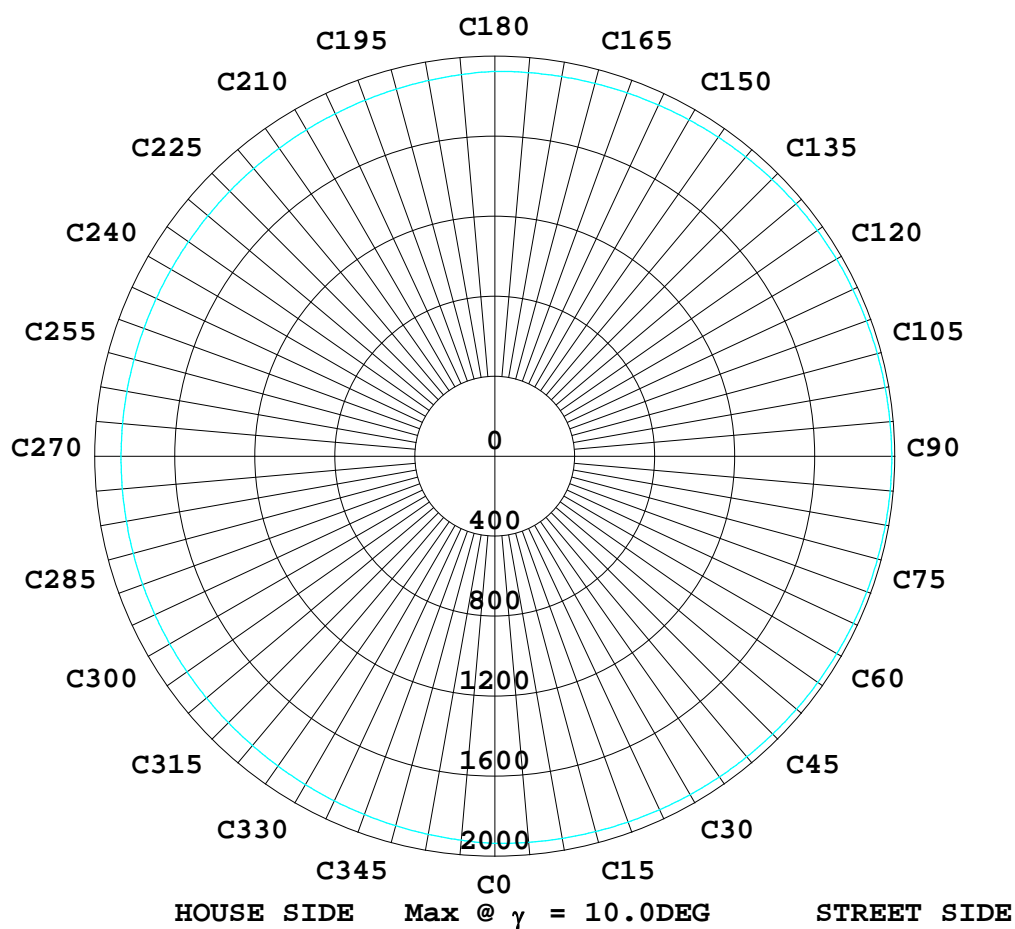
Test Set: 8.0deg/s B-Beta (TYPE B)  
 Humidity:65.0%  
 Test Distance:7.000 m  
 Remarks:

# LUMINAIRE PHOTOMETRIC TEST REPORT

## ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: SGSLIGHT LIMITED	Address:	
NAME: LED PANEL	TYPE:	WEIGHT:
SPECIFICATION:TLP-F-3012W-72	DIMENSION: 296X1196X11MM SERIAL No.:	



Test System:HOP00 HPG1900  
 Temperature:25.3DEG  
 Operators:TOM CHEN  
 Test Date:2015-04-13

Test Set: 8.0deg/s B-Beta (TYPE B)  
 Humidity:65.0%  
 Test Distance:7.000 m  
 Remarks:

# LUMINAIRE PHOTOMETRIC TEST REPORT

## LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

<b>MANUFACTURER: SGSLIGHT LIMITED</b>	<b>Address:</b>	
<b>NAME: LED PANEL</b>	<b>TYPE:</b>	<b>WEIGHT:</b>
<b>SPECIFICATION:TLP-F-3012W-72</b>	<b>DIMENSION: 296X1196X11MM SERIAL No.:</b>	

UNIT: cd

γ (DEG)	C(DEG)														
	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70
0.0	1967	1967	1967	1967	1967	1967	1967	1967	1967	1967	1967	1967	1967	1967	1967
5.0	1957	1958	1959	1961	1962	1963	1965	1967	1968	1970	1971	1972	1973	1974	1974
10.0	1935	1937	1940	1943	1946	1950	1953	1957	1961	1964	1968	1971	1974	1978	1980
15.0	1893	1896	1901	1907	1914	1922	1930	1938	1946	1950	1952	1954	1956	1958	1960
20.0	1836	1840	1847	1856	1866	1879	1889	1894	1899	1904	1911	1917	1922	1929	1935
25.0	1760	1769	1780	1794	1808	1816	1822	1830	1840	1851	1862	1868	1874	1877	1882
30.0	1675	1684	1698	1715	1731	1736	1745	1758	1770	1779	1788	1797	1806	1815	1822
35.0	1571	1581	1599	1621	1627	1639	1656	1666	1678	1693	1707	1723	1728	1734	1738
40.0	1453	1466	1486	1500	1513	1532	1546	1562	1581	1598	1607	1616	1626	1636	1645
45.0	1330	1344	1367	1377	1395	1410	1428	1452	1463	1476	1492	1508	1518	1525	1530
50.0	1194	1209	1232	1244	1262	1282	1305	1317	1334	1352	1363	1375	1386	1396	1406
55.0	1046	1074	1100	1103	1135	1147	1160	1181	1195	1209	1224	1240	1252	1260	1268
60.0	885	910	907	951	978	994	1011	1027	1046	1079	1077	1090	1103	1115	1126
65.0	734	752	774	795	811	831	850	872	887	904	922	932	949	958	967
70.0	574	585	606	625	645	666	685	705	724	739	754	763	781	792	802
75.0	408	424	441	459	476	496	517	533	551	569	584	598	611	622	631
80.0	253	266	280	294	312	329	346	365	383	399	414	427	440	450	459
85.0	106	108	121	137	159	176	192	209	226	243	257	271	283	293	302
90.0	6.30	1.96	11.8	24.9	39.5	53.2	65.8	77.5	89.0	100	112	122	131	139	146
95.0	0.00	0.00	0.00	0.00	0.00	0.00	0.72	10.5	20.3	29.9	39.3	47.8	55.7	62.6	68.6
100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.0	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00
140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:TOM CHEN  
 Test Date:2015-04-13

Test Set: 8.0deg/s B-Beta (TYPE B)  
 Humidity:65.0%  
 Test Distance:7.000 m  
 Remarks:

# LUMINAIRE PHOTOMETRIC TEST REPORT

## LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

<b>MANUFACTURER: SGSLIGHT LIMITED</b>	<b>Address:</b>	
<b>NAME: LED PANEL</b>	<b>TYPE:</b>	<b>WEIGHT:</b>
<b>SPECIFICATION:TLP-F-3012W-72</b>	<b>DIMENSION: 296X1196X11MM SERIAL No.:</b>	

UNIT: cd

γ (DEG)	C(DEG)														
	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145
0.0	1967	1967	1967	1967	1967	1967	1967	1967	1967	1967	1967	1967	1967	1967	1967
5.0	1975	1975	1975	1975	1975	1975	1974	1973	1972	1971	1970	1969	1967	1965	1964
10.0	1981	1983	1984	1984	1983	1982	1980	1978	1975	1973	1969	1964	1959	1953	1948
15.0	1962	1963	1964	1964	1963	1962	1959	1957	1954	1949	1942	1935	1930	1925	1917
20.0	1939	1941	1943	1943	1943	1940	1935	1929	1921	1912	1903	1894	1887	1877	1870
25.0	1886	1887	1888	1888	1887	1883	1879	1873	1868	1861	1857	1846	1831	1817	1803
30.0	1828	1831	1833	1832	1829	1824	1817	1809	1799	1788	1777	1767	1757	1750	1731
35.0	1742	1745	1746	1746	1743	1738	1732	1723	1715	1707	1697	1681	1665	1651	1638
40.0	1651	1656	1659	1659	1656	1650	1641	1630	1619	1606	1592	1578	1565	1547	1528
45.0	1534	1536	1538	1538	1535	1531	1524	1517	1509	1498	1482	1463	1444	1428	1410
50.0	1411	1415	1416	1416	1414	1409	1402	1391	1380	1367	1352	1335	1325	1299	1275
55.0	1274	1278	1279	1279	1277	1272	1265	1257	1245	1233	1219	1199	1179	1160	1141
60.0	1133	1139	1142	1142	1139	1134	1126	1121	1103	1088	1070	1053	1034	1012	986
65.0	973	978	980	980	978	974	968	966	948	937	923	902	880	844	835
70.0	809	815	818	818	816	812	805	796	784	771	756	739	720	701	675
75.0	638	644	646	647	645	641	636	628	617	604	591	573	556	534	512
80.0	467	472	475	476	475	471	466	459	449	437	423	408	388	368	345
85.0	309	313	317	318	317	314	309	302	293	282	269	253	233	210	185
90.0	152	156	158	160	159	157	153	147	141	132	121	108	93.4	77.6	62.2
95.0	73.5	77.0	79.2	80.1	79.4	77.4	74.0	69.3	63.6	56.3	47.5	38.1	27.9	17.8	8.48
100.0	0.00	0.00	0.08	0.68	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.0	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00
140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:TOM CHEN  
 Test Date:2015-04-13

Test Set: 8.0deg/s B-Beta (TYPE B)  
 Humidity:65.0%  
 Test Distance:7.000 m  
 Remarks:

# LUMINAIRE PHOTOMETRIC TEST REPORT

## LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

<b>MANUFACTURER: SGSLIGHT LIMITED</b>	<b>Address:</b>	
<b>NAME: LED PANEL</b>	<b>TYPE:</b>	<b>WEIGHT:</b>
<b>SPECIFICATION:TLP-F-3012W-72</b>	<b>DIMENSION: 296X1196X11MM SERIAL No.:</b>	

UNIT: cd

γ (DEG)	C (DEG)														
	150	155	160	165	170	175	180	185	190	195	200	205	210	215	220
0.0	1967	1967	1967	1967	1967	1967	1967	1967	1967	1967	1967	1967	1967	1967	1967
5.0	1963	1962	1961	1960	1959	1958	1957	1953	1948	1944	1940	1937	1933	1930	1928
10.0	1942	1938	1934	1930	1928	1926	1924	1916	1908	1901	1895	1890	1885	1881	1877
15.0	1909	1901	1893	1886	1881	1876	1873	1861	1851	1842	1834	1828	1823	1818	1815
20.0	1863	1851	1837	1826	1819	1813	1810	1794	1780	1769	1760	1753	1747	1736	1725
25.0	1791	1782	1770	1755	1743	1734	1728	1709	1693	1679	1671	1662	1647	1633	1624
30.0	1713	1696	1683	1665	1650	1639	1633	1611	1594	1581	1569	1553	1542	1531	1522
35.0	1623	1600	1580	1566	1546	1532	1527	1503	1486	1476	1452	1437	1428	1414	1400
40.0	1510	1495	1471	1451	1433	1415	1405	1379	1362	1342	1323	1310	1293	1279	1269
45.0	1385	1368	1350	1325	1306	1283	1270	1243	1226	1204	1188	1170	1153	1142	1127
50.0	1256	1232	1215	1191	1169	1142	1125	1097	1080	1055	1035	1022	1008	990	977
55.0	1113	1090	1071	1051	1017	994	974	934	922	907	886	870	848	837	821
60.0	970	943	889	888	861	837	814	788	763	742	729	707	692	675	661
65.0	811	786	757	731	703	676	652	628	598	584	561	545	529	514	498
70.0	649	625	596	565	538	507	481	456	437	417	401	387	370	353	338
75.0	487	460	433	399	369	340	311	292	275	259	249	233	220	209	197
80.0	321	294	267	235	203	175	163	138	127	120	114	106	95.9	89.3	82.0
85.0	158	140	117	96.0	67.6	41.9	22.1	28.0	29.3	29.4	23.2	14.4	4.75	6.87	8.63
90.0	46.8	31.8	17.7	5.40	1.01	0.62	0.39	0.00	0.00	0.00	0.06	0.23	0.45	0.62	0.68
95.0	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.32	0.49	0.65	0.81	1.00	1.11
100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.54	0.64	0.82	0.99	1.24	1.40	1.53
105.0	0.00	0.00	0.00	0.00	0.00	0.00	1.51	1.21	1.02	1.38	1.47	1.49	1.70	1.90	2.03
110.0	0.00	0.00	0.00	0.00	0.00	0.00	2.58	2.24	1.71	2.01	2.17	2.08	2.24	2.43	2.55
115.0	0.00	0.00	0.00	0.00	0.00	0.00	3.26	2.93	2.36	2.47	2.60	2.75	2.85	2.94	3.15
120.0	0.00	0.00	0.00	0.00	0.00	0.00	3.48	3.37	3.36	3.24	3.29	3.39	3.46	3.52	3.66
125.0	0.00	0.00	0.00	0.00	0.00	0.00	4.67	4.35	4.05	4.08	4.15	4.06	4.10	4.15	4.20
130.0	0.00	0.00	0.00	0.00	0.00	0.00	5.73	5.40	5.08	4.94	4.92	5.00	4.87	4.80	4.87
135.0	0.00	0.00	0.00	0.00	0.00	0.00	6.30	6.09	6.08	5.82	5.67	5.63	5.37	5.47	5.24
140.0	0.00	0.00	0.00	0.00	0.00	0.00	7.31	7.00	6.70	6.41	6.14	6.28	6.02	5.79	5.93
145.0	0.00	0.00	0.00	0.00	0.00	0.00	7.82	7.54	7.27	7.01	6.76	6.52	6.69	6.48	6.65
150.0	0.00	0.00	0.00	0.00	0.00	0.00	8.32	8.08	7.84	7.61	7.38	7.59	7.38	7.18	7.39
155.0	0.00	0.00	0.00	0.00	0.00	0.00	8.83	8.62	8.41	8.21	8.29	8.27	8.08	7.95	7.80
160.0	0.00	0.00	0.00	0.00	0.00	0.00	9.39	9.22	9.05	8.88	8.71	8.56	8.41	8.59	8.56
165.0	0.00	0.00	0.00	0.00	0.00	0.00	9.90	9.76	9.63	9.50	9.37	9.24	9.15	9.36	9.36
170.0	0.00	0.00	0.00	0.00	0.00	0.00	10.4	10.3	10.2	10.1	10.0	9.95	10.0	10.1	10.0
175.0	0.00	0.00	0.00	0.00	0.00	0.00	10.4	10.4	10.3	10.3	10.2	10.2	10.1	10.1	10.1
180.0	0.00	0.00	0.00	0.00	0.00	0.00	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:TOM CHEN  
 Test Date:2015-04-13

Test Set: 8.0deg/s B-Beta (TYPE B)  
 Humidity:65.0%  
 Test Distance:7.000 m  
 Remarks:



# LUMINAIRE PHOTOMETRIC TEST REPORT

## LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

<b>MANUFACTURER: SGSLIGHT LIMITED</b>	<b>Address:</b>	
<b>NAME: LED PANEL</b>	<b>TYPE:</b>	<b>WEIGHT:</b>
<b>SPECIFICATION:TLP-F-3012W-72</b>	<b>DIMENSION: 296X1196X11MM SERIAL No.:</b>	

UNIT: cd

γ (DEG)	C (DEG)														
	225	230	235	240	245	250	255	260	265	270	275	280	285	290	295
0.0	1967	1967	1967	1967	1967	1967	1967	1967	1967	1967	1967	1967	1967	1967	1967
5.0	1926	1924	1922	1921	1920	1919	1919	1918	1918	1918	1918	1919	1920	1921	1923
10.0	1875	1872	1870	1869	1868	1868	1868	1868	1869	1869	1870	1871	1873	1874	1876
15.0	1808	1802	1796	1791	1789	1787	1785	1784	1782	1782	1784	1788	1792	1795	1800
20.0	1718	1712	1707	1702	1699	1698	1700	1699	1697	1695	1698	1704	1707	1711	1716
25.0	1621	1615	1611	1604	1597	1593	1593	1593	1592	1591	1594	1599	1602	1609	1616
30.0	1506	1498	1494	1489	1486	1484	1483	1484	1485	1487	1488	1491	1494	1499	1504
35.0	1388	1381	1378	1368	1361	1355	1352	1352	1351	1354	1356	1359	1364	1371	1378
40.0	1260	1251	1239	1232	1225	1220	1216	1217	1217	1220	1222	1224	1230	1236	1241
45.0	1114	1104	1107	1091	1082	1076	1070	1069	1068	1069	1072	1075	1082	1089	1098
50.0	967	955	944	936	929	923	920	919	918	918	921	925	931	937	945
55.0	808	797	789	779	770	763	758	756	754	755	758	762	769	777	787
60.0	649	636	623	613	605	598	594	591	590	591	594	598	605	613	623
65.0	484	471	460	451	444	438	434	431	431	431	433	438	444	451	461
70.0	328	317	307	297	289	282	276	273	271	271	273	277	283	291	301
75.0	183	174	169	164	160	156	153	151	151	151	152	155	159	163	169
80.0	73.9	66.2	58.7	51.5	44.9	39.3	35.0	32.2	30.8	30.8	32.3	35.1	39.4	45.0	51.8
85.0	10.0	11.2	12.3	12.9	13.4	13.9	14.4	14.9	15.4	15.8	16.2	16.5	16.7	17.0	17.1
90.0	0.73	0.73	0.73	0.73	0.73	0.79	0.79	0.79	0.84	0.90	0.96	1.01	1.01	1.01	1.01
95.0	1.17	1.20	1.21	1.21	1.22	1.29	1.31	1.33	1.38	1.43	1.49	1.52	1.56	1.58	1.57
100.0	1.66	1.67	1.68	1.70	1.72	1.80	1.83	1.87	1.91	1.96	2.02	2.04	2.11	2.14	2.12
105.0	2.13	2.14	2.15	2.18	2.21	2.31	2.35	2.41	2.45	2.50	2.56	2.55	2.67	2.69	2.68
110.0	2.62	2.59	2.61	2.65	2.77	2.81	2.87	2.95	2.98	3.03	3.10	3.06	3.22	3.21	3.26
115.0	3.17	3.19	3.06	3.27	3.33	3.31	3.39	3.49	3.52	3.57	3.63	3.57	3.76	3.74	3.82
120.0	3.60	3.64	3.70	3.76	3.84	3.80	3.92	4.09	4.06	4.10	4.17	4.09	4.31	4.35	4.36
125.0	4.25	4.07	4.15	4.23	4.37	4.44	4.58	4.73	4.59	4.64	4.70	4.59	4.85	4.93	5.00
130.0	4.66	4.74	4.84	4.94	4.88	5.01	5.16	5.27	5.13	5.17	5.24	5.16	5.26	5.47	5.40
135.0	5.35	5.45	5.31	5.44	5.36	5.52	5.70	5.71	5.66	5.71	5.77	5.80	5.67	6.01	6.04
140.0	6.06	5.88	6.04	5.95	6.13	6.11	6.23	6.23	6.20	6.24	6.31	6.21	6.17	6.54	6.65
145.0	6.48	6.64	6.54	6.51	6.62	6.84	6.91	6.76	6.74	6.78	6.84	6.69	6.67	6.85	7.17
150.0	7.23	7.11	7.09	7.21	7.38	7.36	7.47	7.29	7.29	7.31	7.38	7.41	7.33	7.24	7.68
155.0	7.65	7.91	7.78	7.98	7.96	8.13	7.87	7.82	7.85	7.84	7.91	7.94	7.76	7.73	7.80
160.0	8.44	8.45	8.63	8.53	8.73	8.44	8.39	8.35	8.39	8.38	8.43	8.47	8.48	8.46	8.27
165.0	9.26	9.16	9.28	9.23	9.00	8.95	8.91	8.90	8.92	8.91	8.94	8.99	9.02	9.03	8.85
170.0	9.72	9.64	9.58	9.53	9.49	9.46	9.45	9.46	9.45	9.45	9.45	9.51	9.54	9.57	9.60
175.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.99	9.98	9.98	9.98	9.99	10.0	10.0	10.0
180.0	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:TOM CHEN  
 Test Date:2015-04-13

Test Set: 8.0deg/s B-Beta (TYPE B)  
 Humidity:65.0%  
 Test Distance:7.000 m  
 Remarks:

# LUMINAIRE PHOTOMETRIC TEST REPORT

## LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

<b>MANUFACTURER: SGSLIGHT LIMITED</b>	<b>Address:</b>	
<b>NAME: LED PANEL</b>	<b>TYPE:</b>	<b>WEIGHT:</b>
<b>SPECIFICATION:TLP-F-3012W-72</b>	<b>DIMENSION: 296X1196X11MM SERIAL No.:</b>	

UNIT: cd

C(DEG)\ γ (DEG)	300	305	310	315	320	325	330	335	340	345	350	355
0.0	1967	1967	1967	1967	1967	1967	1967	1967	1967	1967	1967	1967
5.0	1924	1926	1928	1930	1932	1934	1937	1940	1943	1946	1950	1953
10.0	1877	1879	1882	1885	1887	1891	1896	1901	1907	1913	1920	1927
15.0	1805	1811	1819	1827	1834	1839	1844	1848	1854	1862	1871	1881
20.0	1721	1727	1734	1741	1751	1762	1775	1783	1789	1797	1807	1821
25.0	1624	1633	1643	1649	1656	1667	1681	1698	1710	1718	1729	1743
30.0	1510	1517	1527	1539	1553	1566	1578	1594	1613	1626	1638	1654
35.0	1387	1401	1410	1421	1435	1451	1469	1480	1497	1520	1531	1547
40.0	1251	1263	1278	1296	1308	1322	1339	1361	1375	1396	1417	1431
45.0	1111	1123	1135	1150	1168	1189	1203	1221	1245	1264	1291	1305
50.0	956	969	984	1003	1019	1036	1067	1078	1099	1122	1150	1168
55.0	801	814	827	842	859	884	903	929	947	974	987	1024
60.0	635	649	664	681	699	719	742	765	794	815	841	867
65.0	472	484	499	515	534	555	576	600	625	654	684	709
70.0	313	326	340	355	371	390	412	434	459	485	513	544
75.0	175	183	190	202	220	238	256	275	297	323	351	380
80.0	59.7	68.5	78.1	87.8	98.2	108	118	139	154	173	196	223
85.0	17.3	17.5	17.7	18.0	18.3	17.8	16.9	27.9	40.0	51.5	62.8	77.6
90.0	1.01	0.96	0.90	0.96	1.01	0.90	0.73	0.51	0.39	0.23	0.11	0.11
95.0	1.56	1.50	1.49	1.47	1.44	1.30	1.14	0.93	0.70	0.48	0.40	0.00
100.0	2.11	2.05	2.05	1.98	1.87	1.74	1.60	1.37	1.20	0.72	0.74	0.78
105.0	2.66	2.58	2.58	2.63	2.44	2.32	2.00	1.94	1.78	1.63	0.98	1.07
110.0	3.31	3.16	3.10	3.19	3.11	2.77	2.55	2.53	2.45	2.33	2.30	2.16
115.0	3.87	3.71	3.66	3.88	3.59	3.44	3.32	3.05	3.08	3.07	2.95	3.21
120.0	4.42	4.37	4.28	4.26	4.43	4.26	3.88	3.91	3.60	3.53	3.86	3.95
125.0	4.95	5.11	4.97	4.88	4.96	5.17	4.94	4.67	4.49	4.76	4.47	4.64
130.0	5.53	5.64	5.56	5.50	5.41	5.65	5.89	5.60	5.90	5.63	5.43	5.74
135.0	6.10	6.14	6.33	6.24	6.17	6.23	6.31	6.89	6.90	7.20	6.81	7.17
140.0	6.53	6.69	6.81	7.02	6.91	7.03	7.01	7.05	7.20	7.51	7.96	8.54
145.0	7.29	7.22	7.32	7.46	7.67	7.90	7.77	7.74	8.01	8.13	8.43	8.74
150.0	7.79	7.92	7.76	8.03	8.12	8.27	8.49	8.73	8.98	8.86	9.07	9.34
155.0	8.28	8.39	8.53	8.54	8.49	8.94	8.85	9.05	9.24	9.43	9.65	9.89
160.0	8.35	8.57	8.96	9.09	9.22	9.37	9.44	9.29	9.46	9.76	10.1	10.4
165.0	9.01	8.87	8.95	9.04	9.33	9.70	9.81	9.94	10.0	10.2	10.3	10.4
170.0	9.65	9.41	9.51	9.79	9.62	9.54	9.61	9.69	9.77	9.86	9.95	10.0
175.0	10.1	10.1	10.1	10.2	10.2	10.2	10.3	10.3	10.3	10.4	10.4	10.5
180.0	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:TOM CHEN  
 Test Date:2015-04-13

Test Set: 8.0deg/s B-Beta (TYPE B)  
 Humidity:65.0%  
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 Remarks: