

LUMINAIRE PHOTOMETRIC TEST REPORT

LAMP PHOTOMETRIC REPORT

MODEL: TLP-F-3012W-40

POWER: 40W

VOLTAGE: 230V

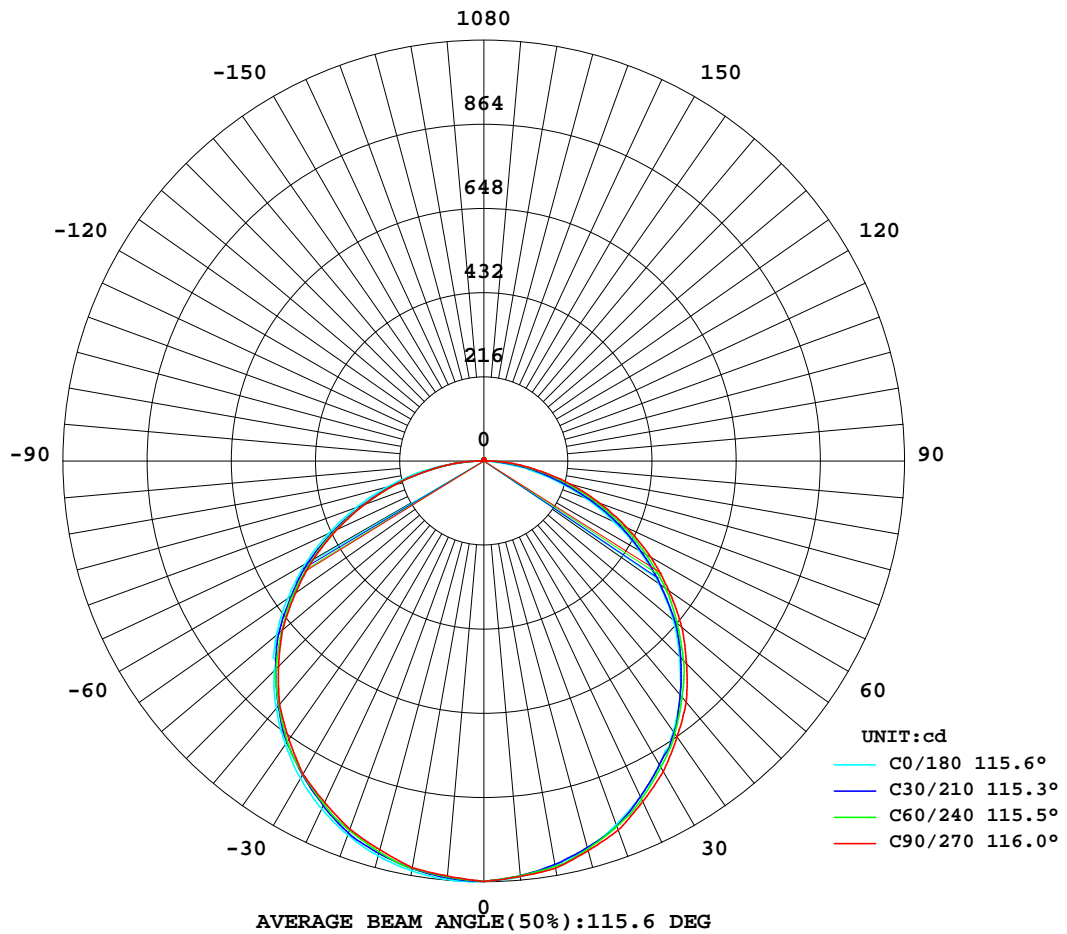
WORKING VOLTAGE: 219.0V

MANUFACTURER: SGSLIGHT LIMITED

TOTAL FLUX: 3213.1 lm

Efficiency: 79.970 lm/W

Test: U: 230.0V I: 0.185A P: 40.18W PF: 0.937



Test System:HOPPO HPG1900
Temperature:25.3DEG
Operators:TOM CHEN
Test Date:2014-04-22

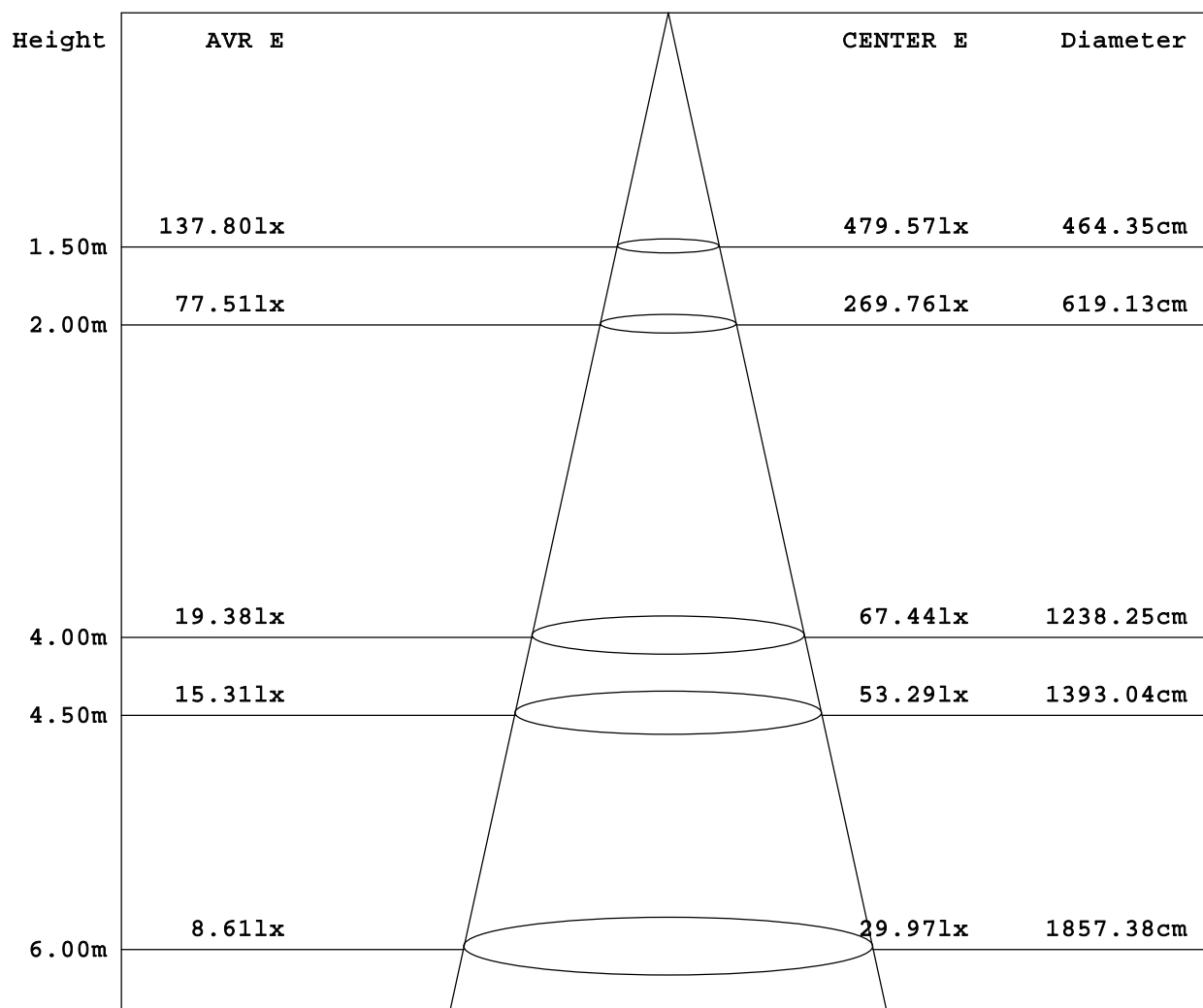
Test Set: 7.0deg/s B-Beta (TYPE B)
Humidity:65.0%
Test Distance:7.000 m
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER: SGSLIGHT LIMITED	Address:	
NAME: LED PANEL	TYPE:	WEIGHT:
SPECIFICATION:TLP-F-3012W-40	DIMENSION: 296X1196X11MM SERIAL No.:	



Angle:114.3deg

Test System:HOPPO HPG1900
 Temperature:25.3DEG
 Operators:TOM CHEN
 Test Date:2014-04-22

Test Set: 7.0deg/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-40		DIMENSION: 296X1196X11MM SERIAL No.:	

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	zone	total
5.0	1079	1073	1070	1068	1071	1068	1070	1074	0- 5	25.68	25.68
10.0	1068	1062	1060	1052	1053	1054	1062	1063	5- 10	76.17	101.8
15.0	1049	1043	1033	1030	1028	1031	1035	1046	10- 15	124.2	226.0
20.0	1022	1010	1006	994.4	993.9	994.6	1009	1014	15- 20	168.1	394.2
25.0	985.2	974.8	967.3	954.4	950.6	954.5	965.0	978.8	20- 25	206.7	600.9
30.0	940.8	930.6	928.5	907.0	901.5	904.5	921.2	933.5	25- 30	238.5	839.5
35.0	888.4	881.3	872.4	854.3	848.1	847.4	864.9	880.6	30- 35	263.1	1103
40.0	829.2	826.6	816.2	798.2	783.9	787.2	808.7	824.0	35- 40	279.3	1382
45.0	761.3	756.8	745.5	728.6	711.1	716.2	736.2	754.5	40- 45	286.3	1668
50.0	695.2	684.1	674.7	656.5	634.7	642.7	663.7	683.0	45- 50	283.7	1952
55.0	614.0	599.6	590.3	576.7	548.7	560.1	579.6	597.5	50- 55	271.6	2224
60.0	530.0	514.1	505.9	496.1	461.8	477.3	495.5	511.3	55- 60	249.9	2474
65.0	438.7	422.3	415.3	405.8	367.9	385.4	405.6	421.3	60- 65	220.2	2694
70.0	348.0	329.2	324.7	316.5	276.5	296.4	315.7	329.5	65- 70	183.3	2877
75.0	256.7	234.3	236.2	229.8	186.0	210.5	229.6	234.9	70- 75	141.9	3019
80.0	167.1	148.6	147.7	144.8	114.4	129.5	143.5	150.7	75- 80	98.53	3118
85.0	78.55	71.63	75.05	68.82	15.10	59.66	73.22	74.74	80- 85	55.57	3173
90.0	6.521	2.541	2.349	4.603	3.213	3.069	2.877	5.802	85- 90	18.26	3192
95.0	3.165	2.846	2.685	3.512	2.397	3.211	3.045	3.945	90- 95	1.729	3193
100.0	4.028	3.145	3.021	2.504	2.014	3.395	3.213	2.092	95-100	1.576	3195
105.0	3.980	3.437	3.356	1.716	2.397	3.566	3.380	0.277	100-105	1.413	3196
110.0	4.411	3.746	3.692	1.174	2.829	3.704	3.548	0	105-110	1.308	3198
115.0	4.795	4.095	4.028	1.081	3.308	3.822	3.716	0	110-115	1.304	3199
120.0	5.227	4.375	4.363	1.380	3.788	3.961	3.884	0	115-120	1.333	3200
125.0	5.610	4.723	4.699	2.038	3.884	4.259	4.052	0	120-125	1.363	3202
130.0	6.042	5.267	5.035	2.993	3.548	4.207	4.220	0	125-130	1.376	3203
135.0	6.426	5.333	5.370	4.141	4.795	4.500	4.387	0	130-135	1.390	3204
140.0	6.809	5.859	5.706	5.426	5.179	4.632	4.555	0	135-140	1.388	3206
145.0	6.809	6.366	6.042	6.175	5.562	5.014	4.723	0	140-145	1.377	3207
150.0	7.193	6.624	6.378	6.949	5.514	5.153	4.891	0	145-150	1.361	3208
155.0	8.008	6.870	6.713	6.870	5.083	5.285	5.059	0	150-155	1.280	3210
160.0	8.008	7.423	7.049	7.108	5.898	5.414	5.227	0.386	155-160	1.135	3211
165.0	8.392	7.671	7.385	7.671	5.898	5.538	5.394	2.518	160-165	0.941	3212
170.0	8.392	7.915	7.720	7.915	5.898	5.659	5.562	4.243	165-170	0.733	3213
175.0	8.392	8.154	8.056	8.154	5.898	5.779	5.730	5.413	170-175	0.478	3213
180.0	8.392	8.392	8.392	8.392	5.898	5.898	5.898	5.898	175-180	0.167	3213
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:TOM CHEN
 Test Date:2014-04-22

Test Set: 7.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks:

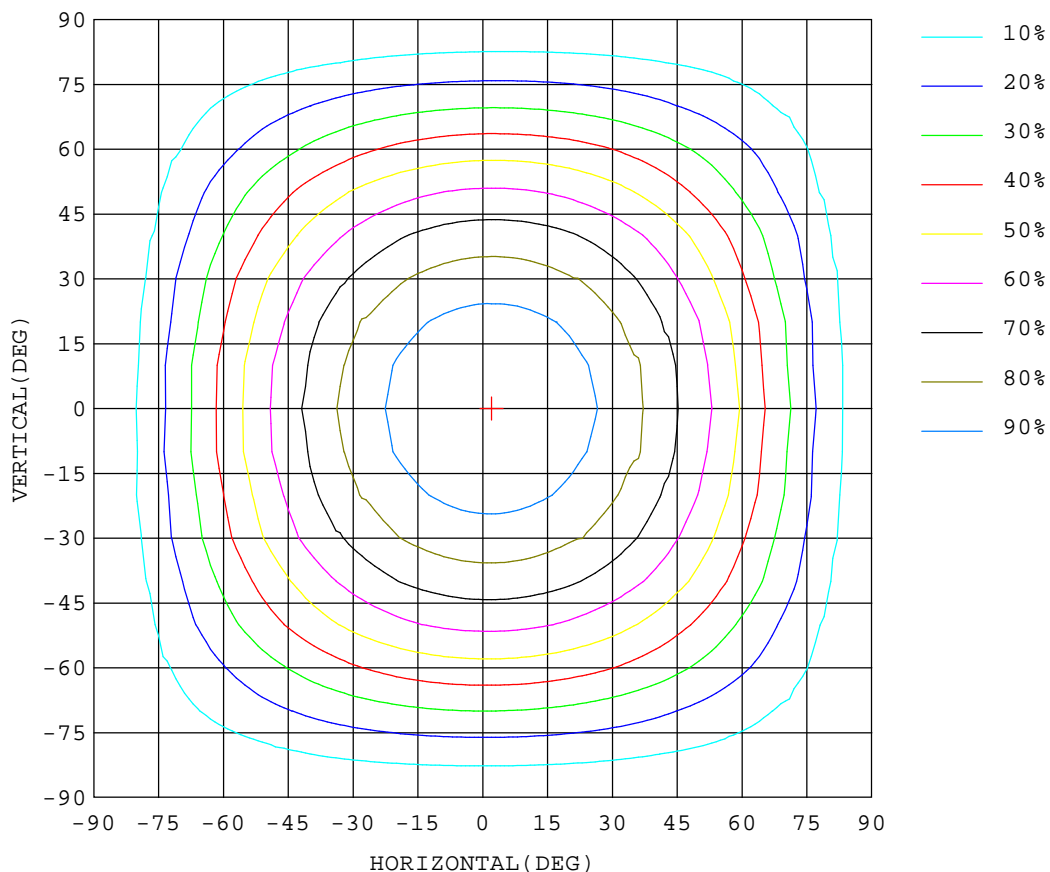
LUMINAIRE PHOTOMETRIC TEST REPORT

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: SGSLIGHT LIMITED	Address:	
NAME: LED PANEL	TYPE:	WEIGHT:
SPECIFICATION:TLP-F-3012W-40	DIMENSION: 296X1196X11MM SERIAL No.:	

UNIT: cd



Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:TOM CHEN
 Test Date:2014-04-22

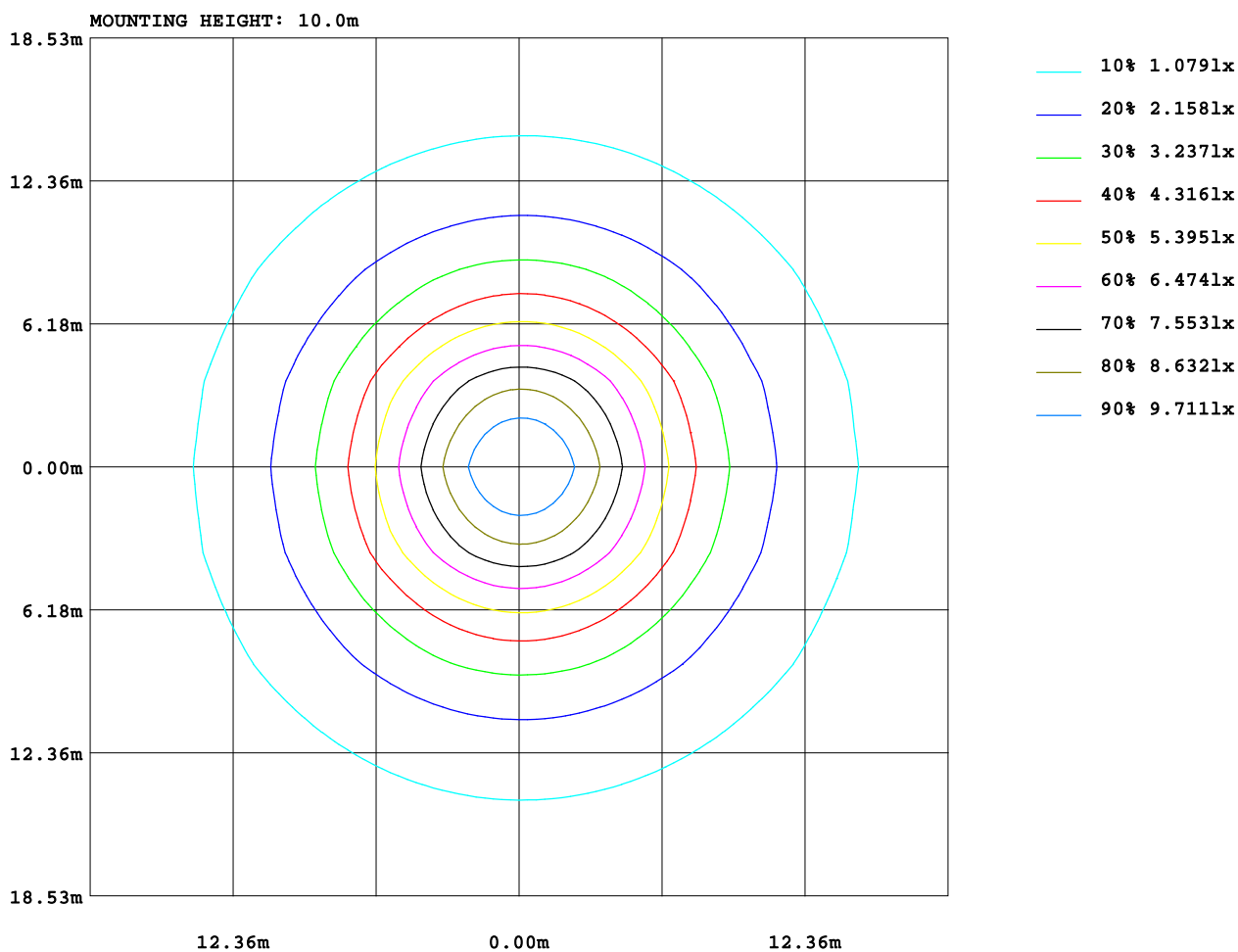
Test Set: 7.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

ISOLUX DIAGRAM

Report number:

MANUFACTURER: SGSLIGHT LIMITED	Address:	
NAME: LED PANEL	TYPE:	WEIGHT:
SPECIFICATION:TLP-F-3012W-40	DIMENSION: 296X1196X11MM SERIAL No.:	



Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:TOM CHEN
 Test Date:2014-04-22

Test Set: 7.0deg/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-40	DIMENSION: 296X1196X11MM SERIAL No.:	

VERTICAL (DEG)	AREA FLUX DIAGRAM																	UNIT:lm		Φ t	Φ a
	0.01	0.02	0.04	0.05	0.06	0.07	0.08	0.08	0.08	0.09	0.12	0.16	0.17	0.15	0.11	0.06	0.03	0.01	1.38	1.38	
90	0.01	0.02	0.04	0.05	0.06	0.07	0.08	0.08	0.08	0.09	0.12	0.16	0.17	0.15	0.11	0.06	0.03	0.01	1.38	1.38	
80	0.01	0.18	0.72	1.57	2.66	3.86	4.97	5.84	6.38	6.50	6.16	5.43	4.41	3.27	2.12	1.13	0.41	0.05	55.7	55.7	
70	0.03	0.47	1.58	3.27	5.34	7.54	9.56	11.1	12.0	12.1	11.4	10.0	8.07	5.87	3.74	1.95	0.68	0.08	105	105	
60	0.04	0.66	2.27	4.73	7.78	11.0	13.9	16.2	17.5	17.7	16.7	14.7	11.9	8.82	5.67	2.99	1.06	0.14	154	154	
50	0.07	0.97	3.16	6.40	10.3	14.4	18.0	20.8	22.4	22.6	21.3	18.7	15.2	11.1	7.13	3.69	1.31	0.14	198	198	
40	0.07	1.14	3.69	7.55	12.1	16.9	21.2	24.5	26.4	26.6	25.2	22.2	18.1	13.4	8.74	4.63	1.69	0.22	235	235	
30	0.11	1.41	4.37	8.74	13.9	19.1	23.7	27.3	29.3	29.5	27.8	24.7	20.1	14.8	9.60	5.02	1.78	0.22	262	262	
	0.10	1.46	4.61	9.30	14.8	20.5	25.5	29.3	31.6	31.8	30.0	26.4	21.5	16.1	10.5	5.63	2.08	0.27	282	282	
	0.14	1.63	4.97	9.84	15.4	21.2	26.4	30.5	32.7	32.9	31.0	27.3	22.3	16.5	10.7	5.62	2.00	0.26	292	292	
	0.14	1.54	4.83	9.69	15.4	21.3	26.3	30.3	32.6	32.9	31.0	27.3	22.3	16.5	10.9	5.81	2.14	0.29	292	292	
	0.13	1.61	4.84	9.54	15.0	20.5	25.6	29.4	31.5	31.7	29.9	26.3	21.5	15.9	10.3	5.40	1.92	0.25	282	282	
-30	0.13	1.40	4.35	8.72	13.9	19.2	23.8	27.4	29.4	29.6	27.9	24.6	20.0	14.9	9.74	5.16	1.89	0.25	263	263	
-40	0.12	1.36	4.08	8.06	12.7	17.5	21.6	24.9	26.7	26.8	25.3	22.4	18.2	13.4	8.59	4.47	1.57	0.20	238	238	
-50	0.08	1.05	3.30	6.62	10.6	14.7	18.4	21.2	22.8	22.9	21.6	19.0	15.4	11.3	7.34	3.86	1.40	0.18	202	202	
-60	0.08	0.87	2.72	5.35	8.52	11.7	14.7	16.9	18.1	18.2	17.1	14.9	12.0	8.79	5.57	2.86	1.00	0.11	160	160	
-70	0.04	0.56	1.81	3.62	5.81	8.11	10.1	11.7	12.6	12.7	11.9	10.4	8.42	6.14	3.92	2.06	0.74	0.10	111	111	
-80	0.03	0.32	1.05	2.13	3.35	4.59	5.73	6.59	7.05	7.03	6.55	5.67	4.52	3.26	2.06	1.07	0.39	0.04	61.4	61.4	
-90	0.00	0.04	0.18	0.43	0.83	1.22	1.51	1.73	1.85	1.85	1.74	1.53	1.24	0.94	0.62	0.33	0.11	0.01	16.2	16.2	
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)	20	30	40	50	60	70	80	90				
Φ t	1.31	16.7	52.6	106	169	234	292	337	362	364	343	302	246	182	118	61.8	22.2	2.80	3213		
Φ a	1.31	16.7	52.6	106	169	234	292	337	362	364	343	302	246	182	118	61.8	22.2	2.80		3213	

Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:TOM CHEN
 Test Date:2014-04-22

Test Set: 7.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks:

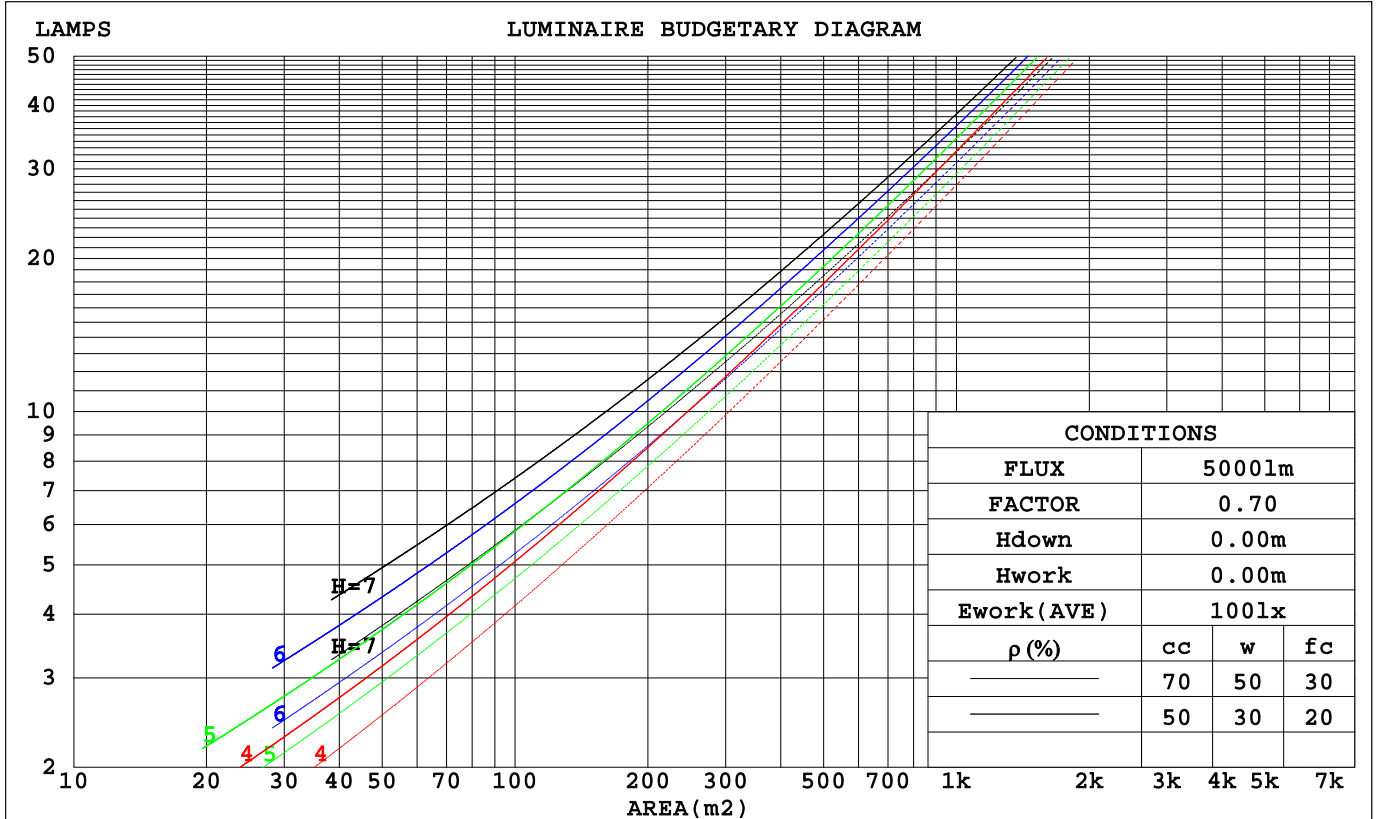
LUMINAIRE PHOTOMETRIC TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER: SGSLIGHT LIMITED				Address:							
NAME: LED PANEL				TYPE:				WEIGHT:			
SPECIFICATION:TLP-F-3012W-40				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	.82														
2.0	.90	.83	.77	.88	.81	.76	.84	.79	.74	.81	.76	.72	.78	.74	.70	.68														
3.0	.79	.70	.64	.77	.69	.63	.74	.67	.62	.71	.65	.61	.68	.63	.59	.57														
4.0	.69	.60	.54	.68	.60	.53	.65	.58	.52	.63	.57	.52	.61	.55	.51	.49														
5.0	.62	.53	.46	.61	.52	.46	.59	.51	.45	.56	.50	.45	.55	.49	.44	.42														
6.0	.56	.47	.40	.55	.46	.40	.53	.45	.39	.51	.44	.39	.49	.43	.39	.37														
7.0	.50	.42	.35	.50	.41	.35	.48	.40	.35	.46	.40	.35	.45	.39	.34	.32														
8.0	.46	.37	.31	.45	.37	.31	.44	.36	.31	.43	.36	.31	.41	.35	.31	.29														
9.0	.42	.34	.28	.42	.34	.28	.40	.33	.28	.39	.33	.28	.38	.32	.28	.26														
10.0	.39	.31	.26	.38	.31	.25	.37	.30	.25	.36	.30	.25	.35	.29	.25	.23														



Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:TOM CHEN
 Test Date:2014-04-22

Test Set: 7.0deg/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-40	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	.318	.181	.057	.311	.177	.056	.297	.170	.054	.284	.164	.053	.273	.158	.051	
2.0	.297	.163	.050	.291	.160	.049	.279	.155	.048	.268	.150	.047	.257	.146	.046	
3.0	.274	.146	.044	.268	.144	.043	.258	.140	.042	.248	.136	.042	.239	.132	.041	
4.0	.252	.131	.039	.247	.129	.038	.238	.126	.038	.229	.123	.037	.221	.120	.037	
5.0	.233	.119	.034	.228	.117	.034	.220	.114	.034	.212	.112	.033	.205	.109	.033	
6.0	.216	.108	.031	.212	.107	.031	.204	.105	.030	.197	.102	.030	.190	.100	.030	
7.0	.200	.099	.028	.197	.098	.028	.190	.096	.028	.184	.094	.027	.178	.092	.027	
8.0	.187	.091	.026	.184	.091	.026	.178	.089	.025	.172	.087	.025	.167	.086	.025	
9.0	.175	.085	.024	.172	.084	.024	.167	.083	.023	.162	.081	.023	.157	.080	.023	
10.0	.165	.079	.022	.162	.078	.022	.157	.077	.022	.152	.076	.022	.148	.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	.196	.196	.196	.167	.167	.167	.114	.114	.114	.066	.066	.066	.021	.021	.021	
1.0	.186	.161	.139	.159	.138	.120	.109	.095	.083	.063	.055	.048	.020	.018	.016	
2.0	.178	.137	.103	.153	.118	.089	.105	.082	.062	.060	.047	.036	.019	.015	.012	
3.0	.171	.120	.079	.146	.103	.068	.100	.072	.048	.058	.042	.028	.019	.014	.009	
4.0	.163	.106	.063	.140	.092	.055	.096	.064	.039	.056	.038	.023	.018	.012	.008	
5.0	.155	.096	.052	.133	.083	.045	.092	.058	.032	.053	.034	.019	.017	.011	.006	
6.0	.148	.088	.044	.127	.076	.038	.088	.053	.027	.051	.031	.016	.016	.010	.005	
7.0	.141	.081	.038	.122	.070	.033	.084	.049	.024	.049	.029	.014	.016	.009	.005	
8.0	.135	.075	.034	.116	.065	.030	.080	.046	.021	.047	.027	.012	.015	.009	.004	
9.0	.129	.070	.030	.111	.061	.027	.077	.043	.019	.045	.025	.011	.014	.008	.004	
10.0	.123	.066	.028	.106	.057	.024	.074	.040	.017	.043	.024	.010	.014	.008	.003	

Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:TOM CHEN
 Test Date:2014-04-22

Test Set: 7.0deg/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-40					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	16.7	18.3	17.0	18.5	18.7	16.6	18.1	16.9	18.4	18.6
3H	18.4	19.8	18.7	20.1	20.3	18.2	19.6	18.5	19.9	20.1
4H	19.1	20.4	19.4	20.7	21.0	18.9	20.2	19.2	20.5	20.8
6H	19.6	20.9	20.0	21.2	21.5	19.4	20.7	19.7	20.9	21.2
8H	19.8	21.1	20.2	21.3	21.7	19.6	20.8	19.9	21.1	21.4
12H	20.0	21.1	20.3	21.4	21.8	19.7	20.9	20.1	21.2	21.5
4H 2H	17.4	18.7	17.7	19.0	19.3	17.3	18.6	17.6	18.9	19.1
3H	19.2	20.4	19.6	20.7	21.0	19.0	20.2	19.4	20.5	20.8
4H	20.0	21.1	20.4	21.4	21.8	19.8	20.9	20.2	21.2	21.6
6H	20.7	21.6	21.1	22.0	22.4	20.5	21.4	20.9	21.8	22.2
8H	20.9	21.8	21.3	22.2	22.6	20.7	21.6	21.2	22.0	22.4
12H	21.1	21.9	21.5	22.3	22.7	20.9	21.8	21.4	22.2	22.6
8H 4H	20.3	21.2	20.7	21.6	22.0	20.1	21.0	20.6	21.4	21.8
6H	21.1	21.9	21.6	22.3	22.7	20.9	21.7	21.4	22.1	22.5
8H	21.4	22.1	21.9	22.5	23.0	21.3	22.0	21.8	22.4	22.9
12H	21.7	22.3	22.2	22.7	23.2	21.6	22.2	22.1	22.6	23.1
12H 4H	20.3	21.1	20.7	21.5	21.9	20.2	21.0	20.6	21.4	21.8
6H	21.2	21.8	21.7	22.3	22.7	21.0	21.7	21.5	22.1	22.6
8H	21.6	22.1	22.0	22.6	23.1	21.4	22.0	21.9	22.4	22.9
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.3				

CIE Pub.117 Corrected 3213 lm Total Lamp Luminous Flux. (8log(F/F0) = 4.1)

Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:TOM CHEN
 Test Date:2014-04-22

Test Set: 7.0deg/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-40	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	44	37	31
0.80	67	55	47	66	54	47	64	54	47	40
1.00	75	64	56	74	63	56	71	64	55	48
1.25	82	71	64	81	71	64	78	69	63	55
1.50	87	77	70	85	76	69	82	74	68	61
2.00	94	85	79	92	84	78	89	82	76	68
2.50	98	90	84	96	89	83	92	86	81	73
3.00	102	94	89	99	93	88	95	90	85	77
4.00	106	100	95	103	98	94	99	94	91	82
5.00	108	103	99	106	101	97	101	97	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:2014-04-22

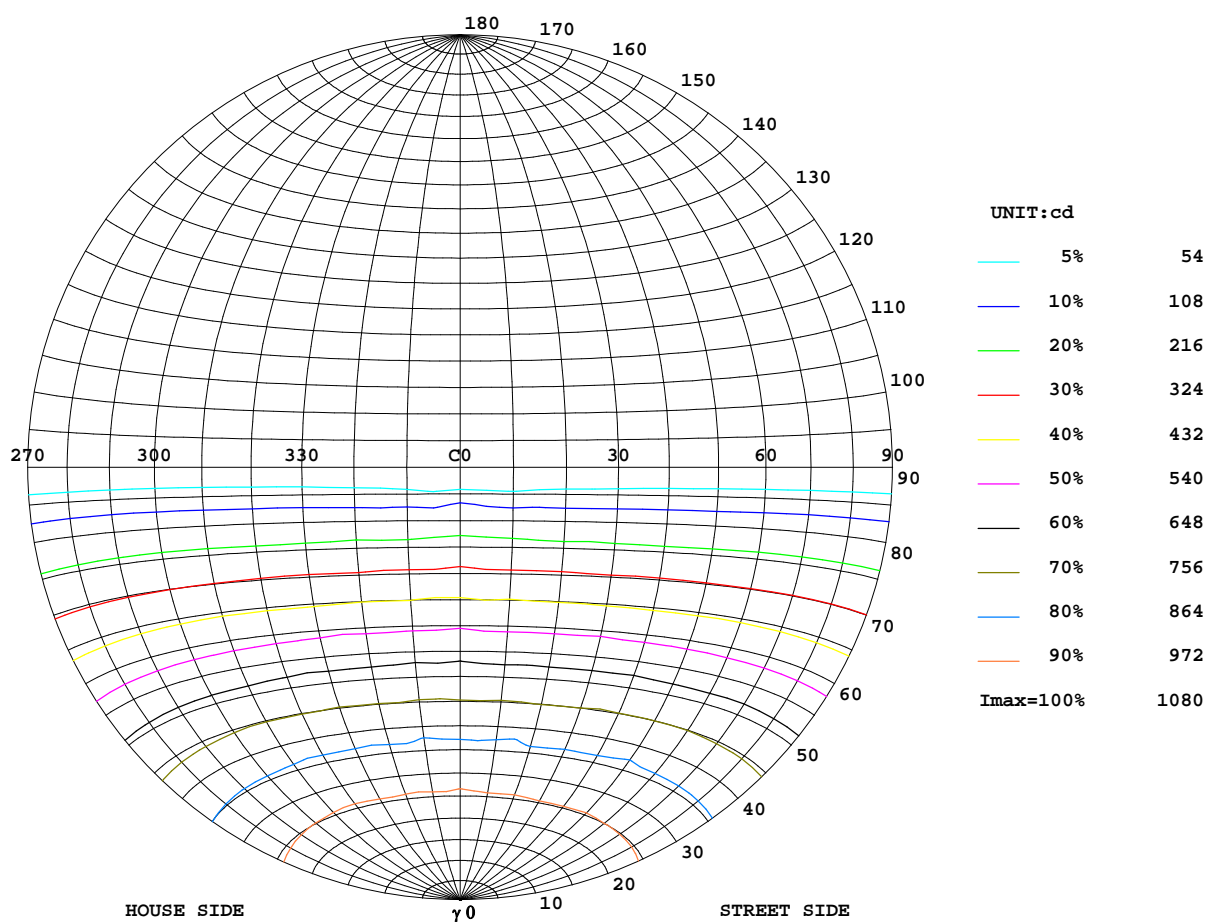
Test Set: 7.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: SGSLIGHT LIMITED	Address:	
NAME: LED PANEL	TYPE:	WEIGHT:
SPECIFICATION:TLP-F-3012W-40	DIMENSION: 296X1196X11MM SERIAL No.:	



Test System:HOPPO HPG1900
 Temperature:25.3DEG
 Operators:TOM CHEN
 Test Date:2014-04-22

Test Set: 7.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks:

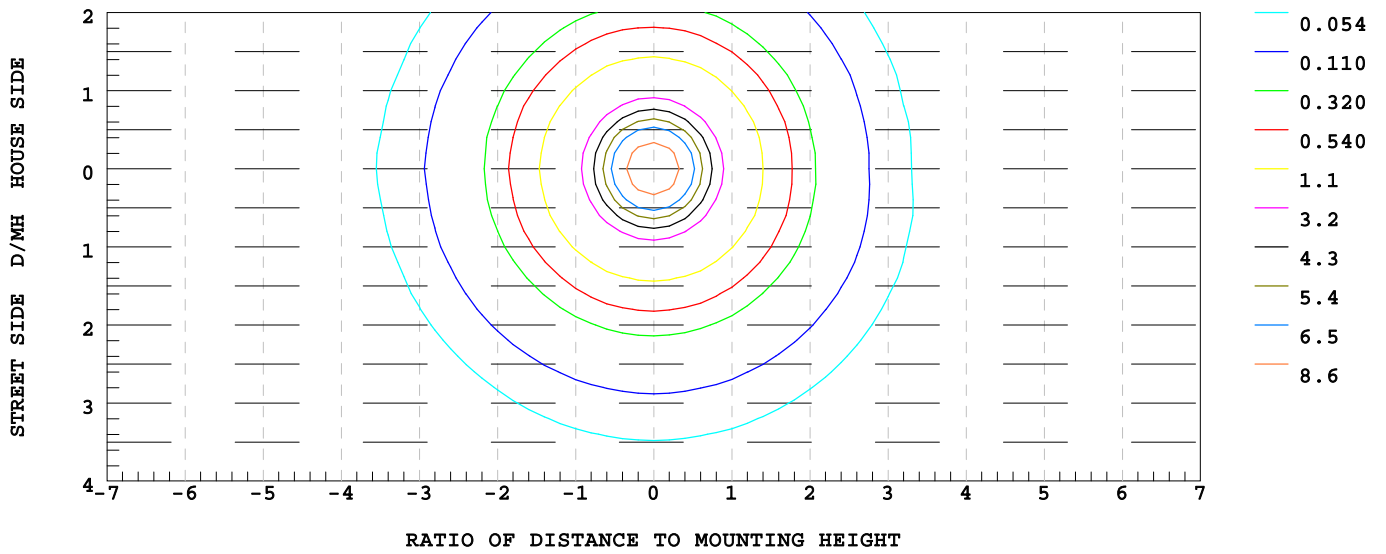
LUMINAIRE PHOTOMETRIC TEST REPORT

ISOLUX DIAGRAM

Report number:

MANUFACTURER: SGSLIGHT LIMITED	Address:	
NAME: LED PANEL	TYPE:	WEIGHT:
SPECIFICATION:TLP-F-3012W-40	DIMENSION: 296X1196X11MM SERIAL No.:	

ILLUMINANCE AT MH=10 m,Enadir = 10.79 lx



Test System:HOPPO HPG1900
 Temperature:25.3DEG
 Operators:TOM CHEN
 Test Date:2014-04-22

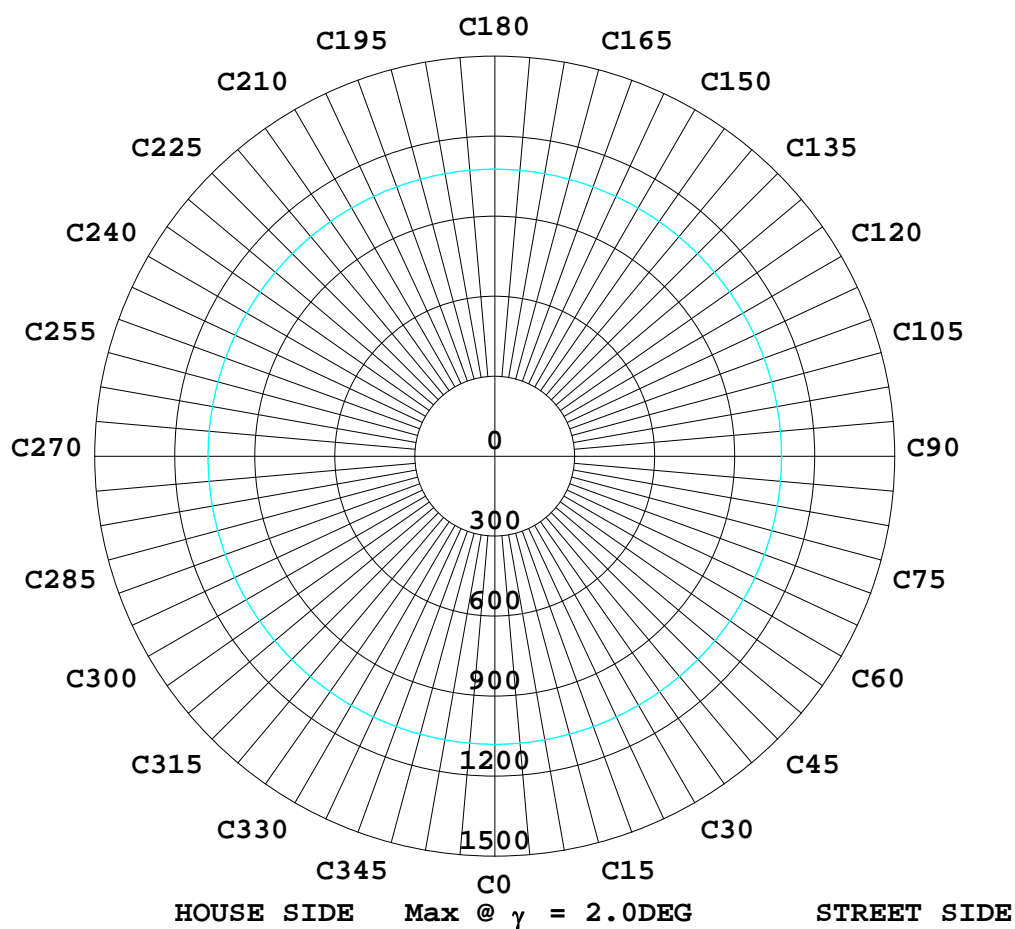
Test Set: 7.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: SGSLIGHT LIMITED	Address:	
NAME: LED PANEL	TYPE:	WEIGHT:
SPECIFICATION:TLP-F-3012W-40	DIMENSION: 296X1196X11MM SERIAL No.:	



Test System:HOP00 HPG1900
 Temperature:25.3DEG
 Operators:TOM CHEN
 Test Date:2014-04-22

Test Set: 7.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER: SGSLIGHT LIMITED	Address:	
NAME: LED PANEL	TYPE:	WEIGHT:
SPECIFICATION:TLP-F-3012W-40	DIMENSION: 296X1196X11MM SERIAL No.:	

UNIT: cd

γ (DEG)	C(DEG)														
	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70
0.0	1079	1079	1079	1079	1079	1079	1079	1079	1079	1079	1079	1079	1079	1079	1079
5.0	1079	1078	1077	1076	1075	1075	1074	1074	1073	1073	1072	1072	1071	1071	1071
10.0	1068	1067	1065	1064	1063	1063	1062	1062	1062	1062	1061	1061	1061	1061	1061
15.0	1049	1047	1045	1044	1043	1042	1043	1043	1044	1043	1041	1040	1039	1037	1037
20.0	1022	1019	1016	1015	1015	1016	1016	1014	1012	1010	1009	1009	1009	1009	1009
25.0	985	981	979	978	979	978	976	975	975	975	976	975	973	972	971
30.0	941	937	935	935	935	932	931	931	932	931	929	929	929	929	930
35.0	888	885	883	883	880	880	881	881	880	881	881	881	879	878	877
40.0	829	826	827	826	822	822	821	823	826	827	824	820	819	819	819
45.0	761	758	760	760	755	755	756	760	758	757	756	756	755	753	751
50.0	695	688	687	686	686	684	687	684	683	684	681	679	677	677	677
55.0	614	607	606	610	605	606	604	606	603	600	599	600	598	596	595
60.0	530	521	521	520	519	520	520	515	515	514	512	511	510	509	508
65.0	439	430	435	430	429	428	426	424	422	422	422	422	420	418	418
70.0	348	338	337	337	337	332	331	331	330	329	328	327	326	325	325
75.0	257	251	245	243	238	240	238	237	235	234	234	235	236	236	236
80.0	167	156	153	151	151	148	146	147	149	149	149	149	149	149	148
85.0	78.5	66.7	60.8	65.0	68.1	68.3	68.1	70.1	70.9	71.6	72.4	73.0	73.6	74.0	74.4
90.0	6.52	2.73	2.73	2.68	2.68	2.63	2.63	2.58	2.58	2.54	2.49	2.49	2.44	2.39	2.39
95.0	3.16	3.16	2.98	2.95	2.96	2.91	2.92	2.89	2.88	2.84	2.80	2.78	2.75	2.74	2.72
100.0	4.02	3.34	3.33	3.34	3.20	3.18	3.19	3.24	3.20	3.14	3.11	3.07	3.05	3.08	3.06
105.0	3.98	3.72	3.77	3.56	3.55	3.41	3.49	3.55	3.51	3.43	3.41	3.40	3.36	3.42	3.38
110.0	4.41	4.15	3.92	3.94	3.75	3.80	3.89	3.83	3.81	3.74	3.71	3.78	3.75	3.76	3.71
115.0	4.79	4.54	4.30	4.09	4.18	4.24	4.23	4.22	4.09	4.09	4.09	4.00	4.07	4.09	4.04
120.0	5.22	4.98	4.74	4.66	4.73	4.65	4.66	4.49	4.41	4.37	4.32	4.30	4.42	4.42	4.36
125.0	5.61	5.49	5.50	5.26	5.04	5.08	4.89	4.72	4.76	4.72	4.68	4.77	4.82	4.74	4.68
130.0	6.04	5.90	5.92	5.68	5.46	5.27	5.20	5.16	5.24	5.26	4.95	5.07	5.14	5.06	5.12
135.0	6.42	6.21	6.00	5.79	5.71	5.71	5.53	5.49	5.68	5.33	5.46	5.55	5.45	5.37	5.49
140.0	6.80	6.60	6.41	6.22	6.04	6.08	5.82	5.83	5.69	5.85	5.96	5.85	5.76	5.73	5.82
145.0	6.80	6.64	6.47	6.57	6.70	6.32	6.17	6.35	6.23	6.36	6.24	6.14	6.06	6.21	6.15
150.0	7.19	7.04	6.89	6.79	6.97	6.83	6.80	6.86	6.73	6.62	6.52	6.43	6.60	6.53	6.48
155.0	8.00	7.86	7.71	7.57	7.44	7.31	7.19	7.07	6.96	6.87	6.85	6.98	6.91	6.85	6.80
160.0	8.00	7.89	7.78	7.67	7.56	7.46	7.36	7.27	7.44	7.42	7.34	7.27	7.21	7.16	7.12
165.0	8.39	8.30	8.21	8.12	8.04	7.95	7.87	7.80	7.73	7.67	7.61	7.56	7.51	7.47	7.44
170.0	8.39	8.33	8.27	8.21	8.16	8.10	8.05	8.00	7.95	7.91	7.87	7.84	7.80	7.78	7.76
175.0	8.39	8.36	8.33	8.30	8.27	8.25	8.22	8.19	8.17	8.15	8.13	8.11	8.10	8.08	8.07
180.0	8.39	8.39	8.39	8.39	8.39	8.39	8.39	8.39	8.39	8.39	8.39	8.39	8.39	8.39	8.39

Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:TOM CHEN
 Test Date:2014-04-22

Test Set: 7.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER: SGSLIGHT LIMITED	Address:	
NAME: LED PANEL	TYPE:	WEIGHT:
SPECIFICATION:TLP-F-3012W-40	DIMENSION: 296X1196X11MM SERIAL No.:	

UNIT: cd

γ (DEG)	C(DEG)														
	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145
0.0	1079	1079	1079	1079	1079	1079	1079	1079	1079	1079	1079	1079	1079	1079	1079
5.0	1070	1070	1070	1070	1069	1069	1069	1068	1068	1068	1068	1068	1068	1068	1068
10.0	1061	1061	1060	1060	1059	1059	1058	1057	1057	1055	1054	1053	1052	1051	1051
15.0	1035	1034	1034	1033	1032	1032	1031	1030	1030	1029	1029	1029	1030	1030	1028
20.0	1009	1008	1007	1006	1005	1004	1002	1000	999	997	996	995	994	994	995
25.0	970	969	968	967	966	965	963	962	960	959	958	957	954	953	951
30.0	930	930	930	929	927	925	923	920	917	914	912	910	907	906	904
35.0	876	875	874	872	871	870	868	866	865	865	865	859	854	851	856
40.0	819	818	817	816	815	812	810	807	805	803	800	798	798	795	790
45.0	749	748	747	746	744	743	741	740	739	737	735	731	729	725	731
50.0	676	676	676	675	674	672	670	668	666	662	660	659	657	654	652
55.0	593	592	591	590	589	589	587	587	586	585	585	580	577	574	571
60.0	508	507	507	506	505	504	502	501	499	498	497	496	496	493	487
65.0	417	416	416	415	415	414	413	413	411	410	409	407	406	404	404
70.0	325	325	325	325	324	324	323	323	322	321	320	318	317	314	312
75.0	236	236	236	236	236	236	235	235	234	234	232	232	230	228	226
80.0	148	148	148	148	148	148	148	148	147	148	147	147	145	143	142
85.0	74.6	74.9	75.0	75.0	74.9	74.7	74.4	73.9	73.4	73.0	72.4	71.4	68.8	64.6	60.5
90.0	2.34	2.34	2.34	2.34	2.34	2.34	2.34	2.39	2.49	2.82	3.30	3.93	4.60	5.08	5.41
95.0	2.69	2.69	2.68	2.68	2.68	2.69	2.69	2.75	2.81	2.96	3.15	3.36	3.51	3.51	3.37
100.0	3.04	3.03	3.02	3.02	3.02	3.03	3.04	3.11	3.12	3.11	3.04	2.83	2.50	2.04	1.44
105.0	3.39	3.37	3.36	3.35	3.36	3.37	3.37	3.46	3.44	3.34	3.03	2.43	1.71	0.76	0.00
110.0	3.73	3.71	3.69	3.69	3.69	3.71	3.68	3.79	3.78	3.61	3.07	2.35	1.17	0.00	0.00
115.0	4.07	4.05	4.03	4.02	4.03	4.05	4.00	4.05	4.14	3.95	3.44	2.36	1.08	0.00	0.00
120.0	4.42	4.38	4.37	4.36	4.37	4.38	4.32	4.36	4.52	4.35	3.75	2.93	1.38	0.00	0.00
125.0	4.76	4.72	4.70	4.69	4.70	4.72	4.73	4.77	4.92	4.73	4.38	3.48	2.03	0.27	0.00
130.0	5.10	5.06	5.04	5.03	5.04	5.06	5.10	5.15	5.24	5.19	4.94	4.24	2.99	1.47	0.00
135.0	5.43	5.40	5.37	5.37	5.37	5.40	5.43	5.31	5.37	5.69	5.42	5.10	4.14	2.98	1.58
140.0	5.77	5.73	5.71	5.70	5.71	5.73	5.77	5.68	5.89	5.95	5.98	5.78	5.42	4.68	3.76
145.0	6.10	6.06	6.04	6.04	6.04	6.06	6.10	6.15	5.99	6.13	6.43	6.38	6.17	5.99	5.57
150.0	6.43	6.40	6.38	6.37	6.38	6.40	6.43	6.48	6.48	6.47	6.51	6.75	6.94	6.78	6.61
155.0	6.76	6.73	6.71	6.71	6.71	6.73	6.76	6.80	6.85	6.86	6.71	7.07	6.87	7.28	7.43
160.0	7.09	7.06	7.05	7.04	7.05	7.06	7.09	7.12	7.16	7.21	7.27	7.12	7.10	7.50	7.51
165.0	7.41	7.39	7.38	7.38	7.38	7.39	7.41	7.44	7.47	7.51	7.56	7.61	7.67	7.73	7.72
170.0	7.74	7.73	7.72	7.72	7.72	7.73	7.74	7.76	7.78	7.80	7.84	7.87	7.91	7.95	8.00
175.0	8.06	8.06	8.05	8.05	8.05	8.06	8.06	8.07	8.08	8.10	8.11	8.13	8.15	8.17	8.19
180.0	8.39	8.39	8.39	8.39	8.39	8.39	8.39	8.39	8.39	8.39	8.39	8.39	8.39	8.39	8.39

Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:TOM CHEN
 Test Date:2014-04-22

Test Set: 7.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER: SGSLIGHT LIMITED	Address:	
NAME: LED PANEL	TYPE:	WEIGHT:
SPECIFICATION:TLP-F-3012W-40	DIMENSION: 296X1196X11MM SERIAL No.:	

UNIT: cd

γ (DEG)	C (DEG)														
	150	155	160	165	170	175	180	185	190	195	200	205	210	215	220
0.0	1079	1079	1079	1079	1079	1079	1079	1079	1079	1079	1079	1079	1079	1079	1079
5.0	1068	1068	1069	1069	1070	1070	1071	1070	1070	1069	1069	1069	1068	1068	1068
10.0	1051	1050	1050	1050	1051	1052	1053	1052	1051	1051	1051	1051	1052	1052	1053
15.0	1027	1026	1025	1025	1025	1026	1028	1026	1025	1025	1025	1026	1027	1029	1032
20.0	996	995	992	991	991	992	994	992	991	992	993	995	997	996	995
25.0	951	952	952	949	948	948	951	948	948	949	952	952	951	952	953
30.0	902	902	904	902	899	899	902	899	899	902	904	902	901	903	905
35.0	853	848	845	846	844	844	848	844	843	846	844	847	851	854	846
40.0	789	787	782	781	781	780	784	780	780	780	781	785	784	783	785
45.0	724	719	714	713	716	711	711	710	714	710	711	713	715	719	717
50.0	654	645	639	637	639	635	635	634	636	633	633	635	641	639	640
55.0	568	569	562	556	553	552	549	550	549	550	552	555	553	557	559
60.0	484	481	481	471	466	467	462	464	460	461	466	466	467	469	474
65.0	399	392	389	389	377	376	368	372	369	375	372	374	380	383	383
70.0	310	309	301	295	289	284	277	279	277	278	282	287	288	290	292
75.0	222	220	217	210	206	193	186	185	191	191	195	197	199	204	208
80.0	141	138	133	129	119	112	114	103	102	113	112	119	123	125	128
85.0	56.1	55.4	55.3	52.8	44.4	34.0	15.1	23.4	32.2	41.8	45.0	48.2	49.9	53.5	57.0
90.0	5.22	4.45	3.69	3.11	3.11	3.06	3.21	2.82	2.87	2.82	2.82	2.87	2.92	3.02	3.11
95.0	3.08	2.82	2.76	2.96	3.06	3.06	2.39	2.60	2.70	2.73	2.87	2.95	3.02	3.10	3.16
100.0	0.97	0.93	1.34	2.26	3.05	3.06	2.01	2.52	2.61	2.82	2.93	3.09	3.15	3.19	3.26
105.0	0.00	0.00	0.00	0.24	1.51	2.30	2.39	2.48	2.82	3.04	3.05	3.09	3.25	3.25	3.44
110.0	0.00	0.00	0.00	0.00	0.00	0.00	2.82	3.04	3.06	3.13	3.32	3.43	3.36	3.27	3.54
115.0	0.00	0.00	0.00	0.00	0.00	0.00	3.30	3.43	3.54	3.24	3.59	3.47	3.32	3.67	3.93
120.0	0.00	0.00	0.00	0.00	0.00	0.00	3.78	3.70	3.79	3.61	3.59	3.37	3.68	3.90	4.05
125.0	0.00	0.00	0.00	0.00	0.00	0.00	3.88	3.81	3.76	3.53	3.42	3.96	4.07	4.28	4.15
130.0	0.00	0.00	0.00	0.00	0.00	0.00	3.54	3.62	3.87	4.16	4.09	4.58	4.46	4.35	4.48
135.0	0.00	0.00	0.00	0.00	0.00	0.00	4.79	4.78	4.93	4.87	4.75	4.62	4.54	4.70	4.39
140.0	2.79	1.07	0.11	0.00	0.00	0.00	5.17	5.07	4.98	4.88	4.79	5.00	4.85	4.77	4.69
145.0	4.71	4.29	3.11	2.73	2.16	1.45	5.56	5.46	5.36	5.13	4.93	5.04	4.95	4.88	4.77
150.0	6.54	6.26	6.03	5.85	5.38	5.05	5.51	5.43	5.35	5.27	5.19	5.11	4.89	5.16	5.21
155.0	7.40	7.36	7.35	7.27	7.40	7.53	5.08	5.10	5.28	5.59	5.59	5.52	5.45	5.39	5.33
160.0	7.36	7.48	7.86	8.07	8.19	8.31	5.89	5.83	5.77	5.71	5.66	5.60	5.55	5.50	5.45
165.0	7.54	7.60	7.70	7.93	8.12	8.28	5.89	5.85	5.80	5.76	5.72	5.68	5.64	5.60	5.57
170.0	8.05	8.10	8.16	8.21	8.27	8.33	5.89	5.86	5.83	5.81	5.78	5.75	5.72	5.70	5.68
175.0	8.22	8.25	8.27	8.30	8.33	8.36	5.89	5.88	5.86	5.85	5.84	5.82	5.81	5.80	5.79
180.0	8.39	8.39	8.39	8.39	8.39	8.39	5.89	5.89	5.89	5.89	5.89	5.89	5.89	5.89	5.89

Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:TOM CHEN
 Test Date:2014-04-22

Test Set: 7.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER: SGSLIGHT LIMITED	Address:	
NAME: LED PANEL	TYPE:	WEIGHT:
SPECIFICATION:TLP-F-3012W-40	DIMENSION: 296X1196X11MM SERIAL No.:	

UNIT: cd

γ (DEG)	C (DEG)														
	225	230	235	240	245	250	255	260	265	270	275	280	285	290	295
0.0	1079	1079	1079	1079	1079	1079	1079	1079	1079	1079	1079	1079	1079	1079	1079
5.0	1068	1068	1068	1069	1069	1069	1069	1070	1070	1070	1071	1071	1072	1072	1072
10.0	1054	1054	1055	1057	1057	1058	1059	1060	1061	1062	1063	1063	1063	1064	1064
15.0	1031	1031	1031	1031	1031	1032	1032	1033	1034	1035	1037	1037	1038	1039	1040
20.0	995	995	997	998	1000	1002	1004	1006	1007	1009	1010	1010	1011	1012	1012
25.0	955	957	958	958	958	959	961	962	964	965	966	968	969	971	973
30.0	905	905	906	908	911	913	915	918	920	921	922	924	925	926	926
35.0	847	850	854	855	856	857	859	861	863	865	867	869	870	872	873
40.0	787	787	789	792	794	797	801	804	807	809	811	812	813	814	815
45.0	716	719	723	725	727	728	730	732	734	736	738	740	743	745	748
50.0	643	645	646	648	651	654	656	659	661	664	665	667	668	670	671
55.0	560	564	568	569	570	572	573	576	578	580	582	584	586	588	590
60.0	477	477	479	481	483	486	488	491	493	496	498	499	501	503	504
65.0	385	387	391	393	395	398	399	402	404	406	407	409	411	413	415
70.0	296	299	302	305	307	309	311	313	314	316	317	318	320	321	322
75.0	211	214	216	219	221	223	225	227	228	230	231	232	233	234	234
80.0	130	133	134	136	137	139	140	141	142	144	145	146	147	148	149
85.0	59.6	63.0	64.9	66.7	68.2	69.6	70.6	71.5	72.5	73.2	73.8	74.4	75.0	75.5	75.5
90.0	3.06	3.02	2.97	2.92	2.92	2.87	2.87	2.87	2.87	2.87	2.97	3.26	3.78	4.41	4.84
95.0	3.21	3.17	3.14	3.09	3.05	3.05	3.05	3.04	3.04	3.04	3.09	3.23	3.48	3.76	3.91
100.0	3.39	3.33	3.32	3.25	3.21	3.23	3.22	3.21	3.21	3.21	3.21	3.21	3.19	3.14	2.99
105.0	3.56	3.48	3.46	3.41	3.41	3.41	3.39	3.38	3.38	3.38	3.33	3.20	2.93	2.58	2.10
110.0	3.70	3.63	3.57	3.58	3.61	3.58	3.57	3.55	3.55	3.54	3.46	3.22	2.74	2.08	1.29
115.0	3.82	3.87	3.77	3.73	3.79	3.76	3.74	3.72	3.71	3.71	3.60	3.27	2.59	1.59	0.64
120.0	3.96	4.00	3.93	3.80	3.96	3.93	3.91	3.89	3.88	3.88	3.75	3.34	2.52	1.45	0.23
125.0	4.25	4.14	4.09	4.12	4.14	4.10	4.08	4.06	4.05	4.05	3.92	3.43	2.53	1.35	0.00
130.0	4.20	4.29	4.19	4.35	4.31	4.27	4.25	4.23	4.22	4.22	4.07	3.55	2.63	1.32	0.00
135.0	4.50	4.43	4.57	4.52	4.48	4.44	4.42	4.40	4.39	4.38	4.22	3.71	2.85	1.62	0.01
140.0	4.63	4.59	4.74	4.68	4.64	4.61	4.58	4.57	4.55	4.55	4.36	3.90	3.18	1.93	0.44
145.0	5.01	4.95	4.89	4.85	4.81	4.77	4.75	4.73	4.72	4.72	4.51	4.14	3.53	2.40	1.13
150.0	5.15	5.09	5.04	5.00	4.97	4.94	4.92	4.90	4.89	4.89	4.65	4.42	3.83	3.04	1.85
155.0	5.28	5.23	5.19	5.16	5.12	5.10	5.08	5.07	5.06	5.05	4.79	4.74	4.20	3.66	2.78
160.0	5.41	5.37	5.34	5.31	5.28	5.26	5.24	5.23	5.22	5.22	5.02	4.94	4.64	4.17	3.71
165.0	5.53	5.50	5.48	5.45	5.44	5.42	5.41	5.40	5.39	5.39	5.30	5.08	5.09	4.76	4.39
170.0	5.65	5.64	5.62	5.60	5.59	5.58	5.57	5.56	5.56	5.56	5.56	5.32	5.23	5.24	5.18
175.0	5.77	5.76	5.76	5.75	5.74	5.74	5.73	5.73	5.73	5.73	5.73	5.73	5.63	5.48	5.38
180.0	5.89	5.89	5.89	5.89	5.89	5.89	5.89	5.89	5.89	5.89	5.89	5.89	5.89	5.89	5.89

Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:TOM CHEN
 Test Date:2014-04-22

Test Set: 7.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER: SGSLIGHT LIMITED	Address:	
NAME: LED PANEL	TYPE:	WEIGHT:
SPECIFICATION:TLP-F-3012W-40	DIMENSION: 296X1196X11MM SERIAL No.:	

UNIT: cd

γ (DEG)	C(DEG)											
	300	305	310	315	320	325	330	335	340	345	350	355
0.0	1079	1079	1079	1079	1079	1079	1079	1079	1079	1079	1079	1079
5.0	1073	1073	1073	1074	1074	1075	1075	1075	1076	1076	1077	1078
10.0	1063	1063	1063	1063	1063	1063	1063	1063	1064	1065	1066	1067
15.0	1041	1042	1044	1046	1047	1046	1045	1044	1044	1045	1046	1047
20.0	1013	1013	1013	1014	1015	1017	1019	1018	1017	1017	1017	1019
25.0	975	977	979	979	979	979	980	981	982	981	980	982
30.0	927	928	931	934	936	935	935	935	937	937	936	937
35.0	875	878	880	881	882	884	886	884	883	886	885	885
40.0	815	817	821	824	824	824	823	827	826	829	830	827
45.0	752	753	753	755	755	758	757	758	757	763	763	759
50.0	672	675	679	683	682	683	686	685	690	690	690	689
55.0	592	595	596	598	602	606	603	605	607	615	609	608
60.0	506	508	509	511	513	515	521	521	519	523	525	523
65.0	417	420	420	421	421	423	426	430	431	431	440	432
70.0	324	325	327	330	332	332	331	332	338	338	340	340
75.0	235	234	234	235	236	239	241	242	239	245	246	254
80.0	150	150	151	151	151	150	148	150	153	153	154	157
85.0	75.7	75.5	75.2	74.7	74.1	73.3	71.2	71.1	69.7	65.0	60.2	64.8
90.0	5.41	5.65	5.80	5.80	5.61	5.27	4.65	3.83	3.16	3.02	3.02	2.92
95.0	4.05	4.10	4.05	3.94	3.69	3.36	3.03	2.78	2.64	2.57	2.25	1.66
100.0	2.75	2.57	2.36	2.09	1.80	1.44	1.35	1.49	1.89	2.08	1.93	1.18
105.0	1.57	1.09	0.75	0.28	0.00	0.00	0.00	0.00	0.44	1.09	1.43	1.29
110.0	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
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
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
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
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
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
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
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
150.0	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	1.71	0.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	3.00	2.11	1.23	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	4.03	3.68	3.16	2.51	1.90	1.34	0.82	0.34	0.00	0.00	0.00	0.00
170.0	4.92	4.68	4.45	4.24	4.04	3.86	3.69	3.53	3.29	3.09	2.95	2.86
175.0	5.39	5.39	5.40	5.41	5.42	5.39	5.32	5.25	5.20	5.16	5.13	5.12
180.0	5.89	5.89	5.89	5.89	5.89	5.89	5.89	5.89	5.89	5.89	5.89	5.89

Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:TOM CHEN
 Test Date:2014-04-22

Test Set: 7.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks: