

# LUMINAIRE PHOTOMETRIC TEST REPORT

## LAMP PHOTOMETRIC REPORT

MODEL: TLP-F-3060W-18

POWER: 18W

VOLTAGE: 230V

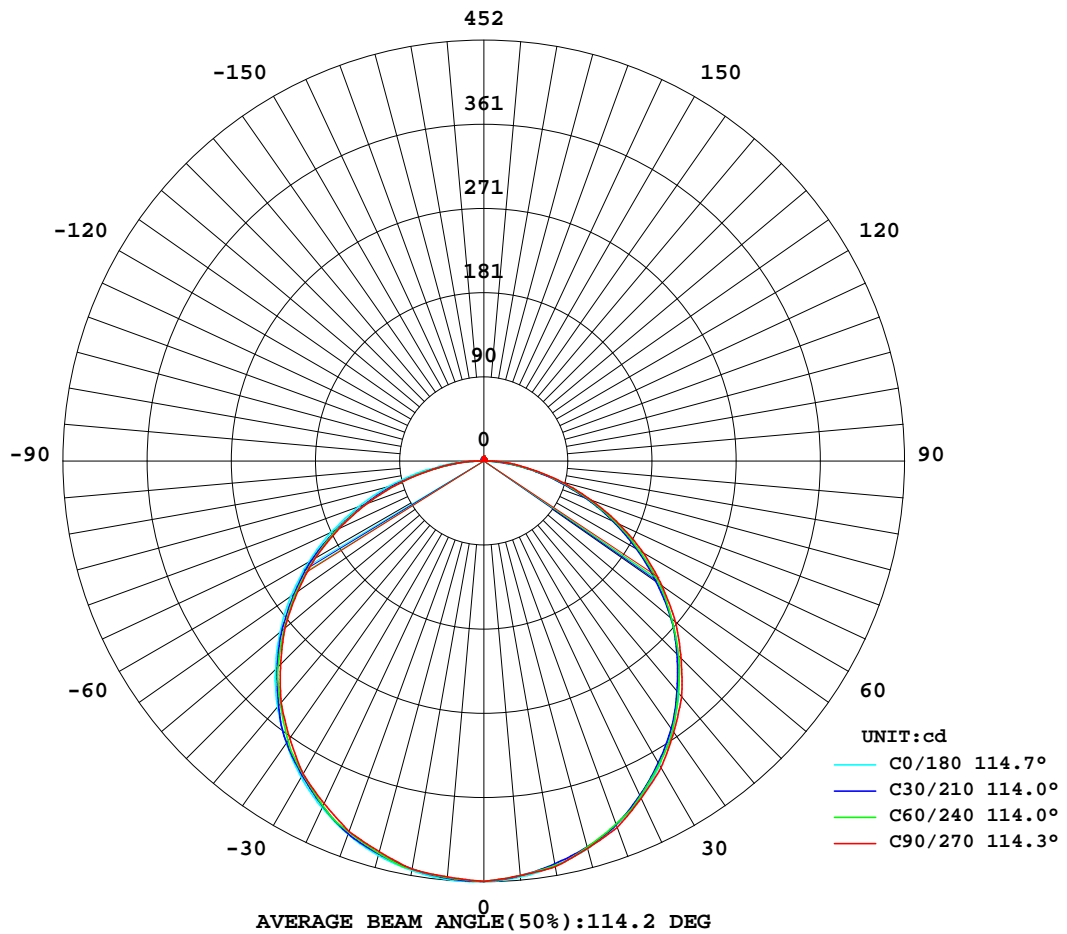
WORKING VOLTAGE: 219.0V

MANUFACTURER: SGSLIGHT LIMITED

TOTAL FLUX: 1328.9 lm

Efficiency: 69.469 lm/W

Test: U: 230.1V I: 0.087A P: 19.12W PF: 0.944



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

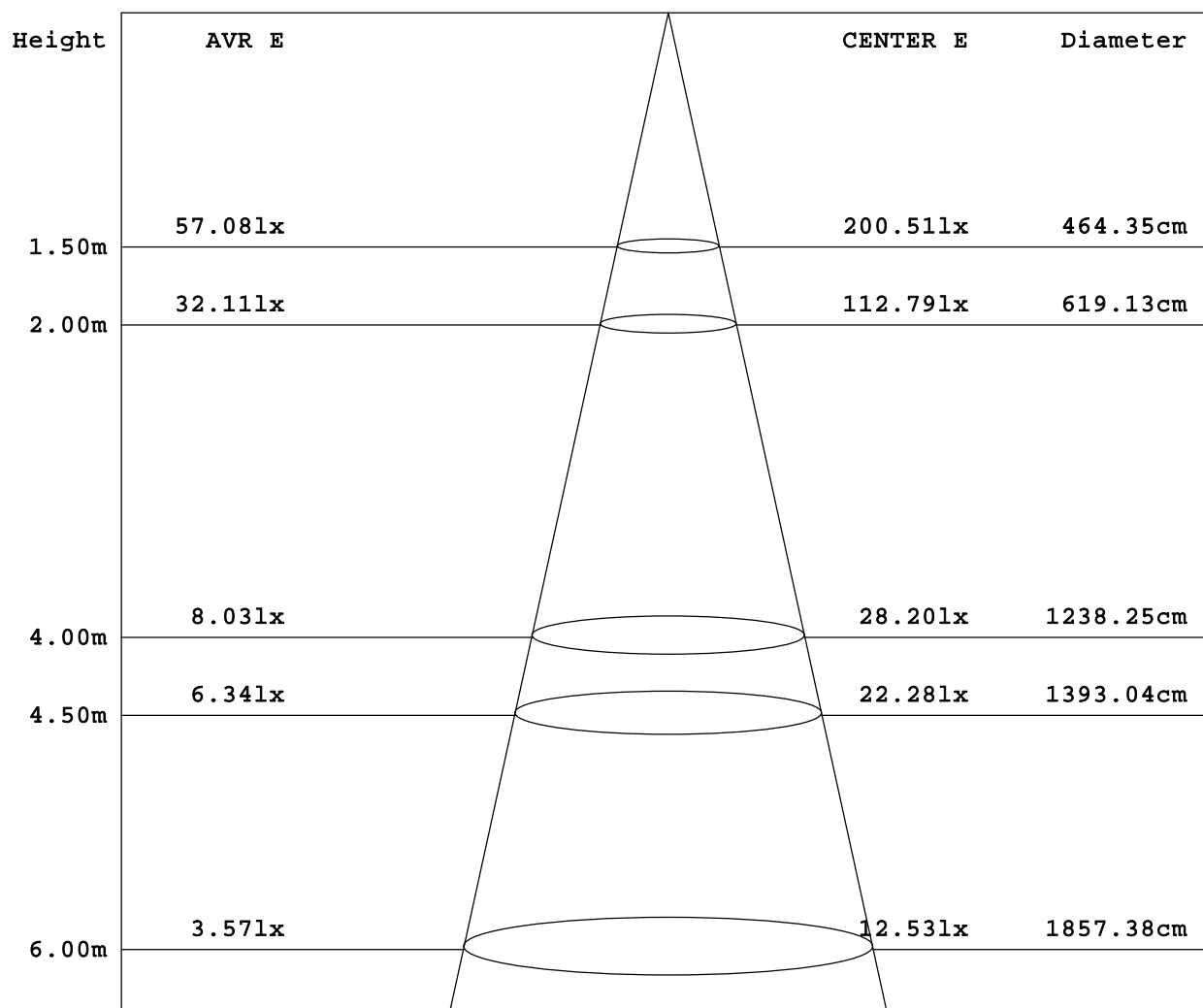
Test Set: 7.0deg/s B-Beta (TYPE B)  
Humidity:65.0%  
Test Distance:7.000 m  
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER: SGSLIGHT LIMITED	Address:	
NAME: LED PANEL	TYPE:	WEIGHT:
SPECIFICATION:TLP-F-3060W-18	DIMENSION: 296X596X11MM	SERIAL No.:



Angle:114.3deg

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

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-3060W-18		DIMENSION: 296X596X11MM	SERIAL No.:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	zone	total
5.0	450.8	448.9	448.0	447.3	448.3	446.4	446.6	448.1	0- 5	10.74	10.74
10.0	446.3	444.6	444.9	441.3	440.8	439.4	442.1	443.0	5- 10	31.84	42.59
15.0	438.1	437.0	434.0	432.6	430.5	429.6	430.3	434.4	10- 15	51.92	94.51
20.0	426.3	423.7	423.0	417.5	415.5	413.9	418.5	420.8	15- 20	70.24	164.7
25.0	410.6	409.1	405.5	401.0	398.1	396.3	399.4	405.9	20- 25	86.29	251.0
30.0	391.9	390.2	388.0	380.8	377.3	375.0	380.2	386.1	25- 30	99.46	350.5
35.0	369.5	366.7	363.2	357.5	352.6	350.6	355.2	361.9	30- 35	109.4	459.9
40.0	344.5	341.8	338.4	333.1	325.5	324.9	330.2	336.4	35- 40	115.6	575.5
45.0	315.9	312.6	308.6	303.0	295.2	293.8	299.2	307.3	40- 45	118.1	693.7
50.0	285.9	283.1	278.7	271.6	263.1	261.8	268.3	277.8	45- 50	116.6	810.3
55.0	252.9	246.8	243.8	237.9	227.5	226.9	233.1	241.2	50- 55	111.2	921.6
60.0	217.1	210.8	209.0	204.5	191.7	192.1	197.9	205.2	55- 60	102.1	1024
65.0	181.0	173.6	171.0	167.0	153.2	154.2	160.1	167.8	60- 65	89.70	1114
70.0	142.9	135.4	132.9	130.3	116.1	117.2	122.2	129.9	65- 70	74.36	1188
75.0	105.7	95.57	95.60	95.04	79.78	82.35	86.25	90.90	70- 75	57.23	1245
80.0	69.84	60.04	58.24	60.02	45.89	48.99	50.27	56.13	75- 80	39.30	1284
85.0	37.28	28.53	29.86	29.13	8.801	21.75	25.98	26.17	80- 85	22.01	1306
90.0	3.588	1.510	1.473	2.870	1.888	1.737	1.699	1.737	85- 90	7.460	1314
95.0	2.228	1.697	1.680	2.117	1.322	1.817	1.813	1.790	90- 95	0.960	1315
100.0	2.228	1.881	1.888	1.429	1.322	1.896	1.926	1.843	95-100	0.901	1316
105.0	2.568	2.059	2.096	0.945	1.624	2.010	2.039	1.894	100-105	0.907	1317
110.0	2.908	2.231	2.304	0.595	1.964	2.111	2.153	2.046	105-110	0.941	1318
115.0	3.210	2.520	2.512	0.442	2.002	2.204	2.266	2.116	110-115	0.975	1319
120.0	3.210	2.696	2.719	0.689	2.342	2.292	2.379	2.182	115-120	1.006	1320
125.0	3.550	2.862	2.927	1.091	2.719	2.477	2.493	2.323	120-125	1.027	1321
130.0	3.890	3.018	3.135	1.942	2.417	2.641	2.606	2.453	125-130	1.036	1322
135.0	3.890	3.165	3.343	3.033	2.757	2.733	2.719	2.526	130-135	1.034	1323
140.0	4.230	3.527	3.550	3.527	3.059	2.820	2.833	2.820	135-140	1.023	1324
145.0	4.230	3.675	3.758	3.675	3.399	2.902	2.946	2.902	140-145	1.007	1325
150.0	4.230	3.815	3.966	3.996	3.399	2.980	3.059	2.980	145-150	0.991	1326
155.0	4.570	3.950	4.174	3.950	3.399	3.326	3.173	3.055	150-155	0.912	1327
160.0	4.570	4.080	4.381	4.364	3.399	3.412	3.286	3.412	155-160	0.784	1327
165.0	4.570	4.369	4.589	4.505	3.739	3.496	3.399	3.496	160-165	0.642	1328
170.0	4.570	4.642	4.797	4.642	3.739	3.578	3.513	3.578	165-170	0.481	1329
175.0	4.910	4.776	5.005	4.776	3.739	3.659	3.626	3.659	170-175	0.301	1329
180.0	5.212	5.212	5.212	5.212	3.739	3.739	3.739	3.739	175-180	0.103	1329
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

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

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

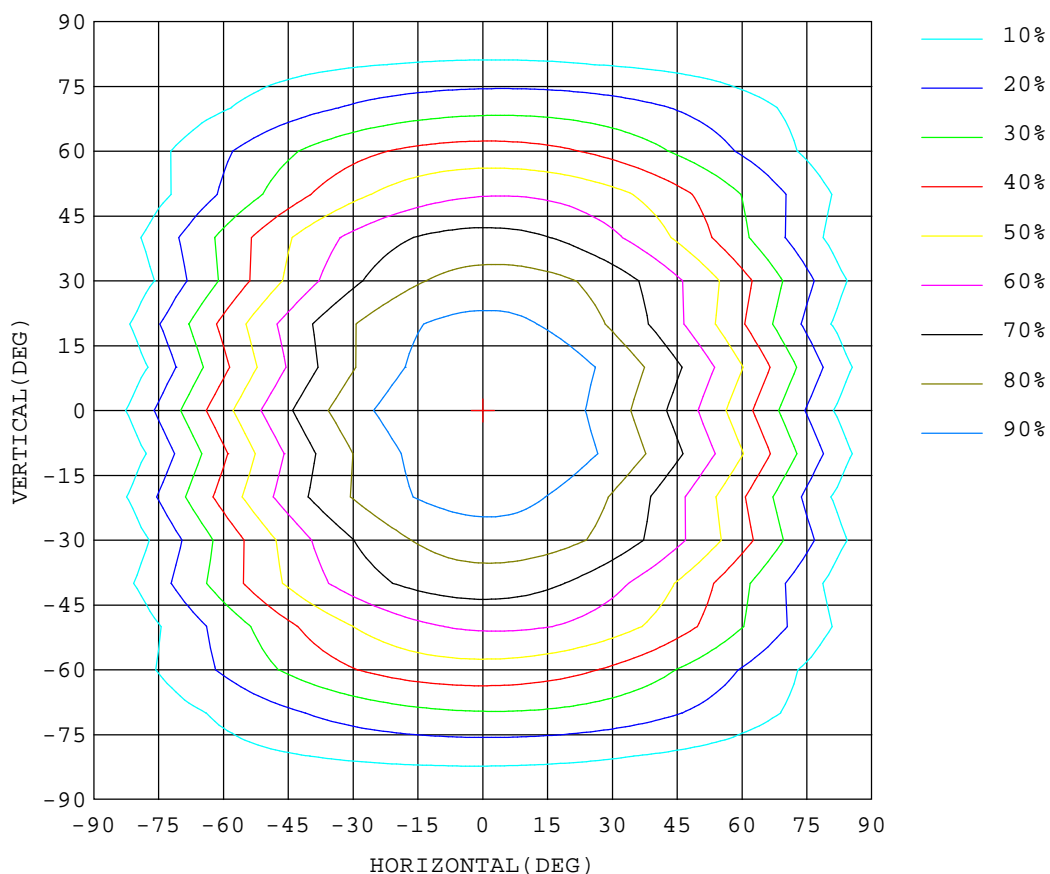
# LUMINAIRE PHOTOMETRIC TEST REPORT

## ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: SGSLIGHT LIMITED	Address:	
NAME: LED PANEL	TYPE:	WEIGHT:
SPECIFICATION:TLP-F-3060W-18	DIMENSION: 296X596X11MM	SERIAL No.:

UNIT: cd



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

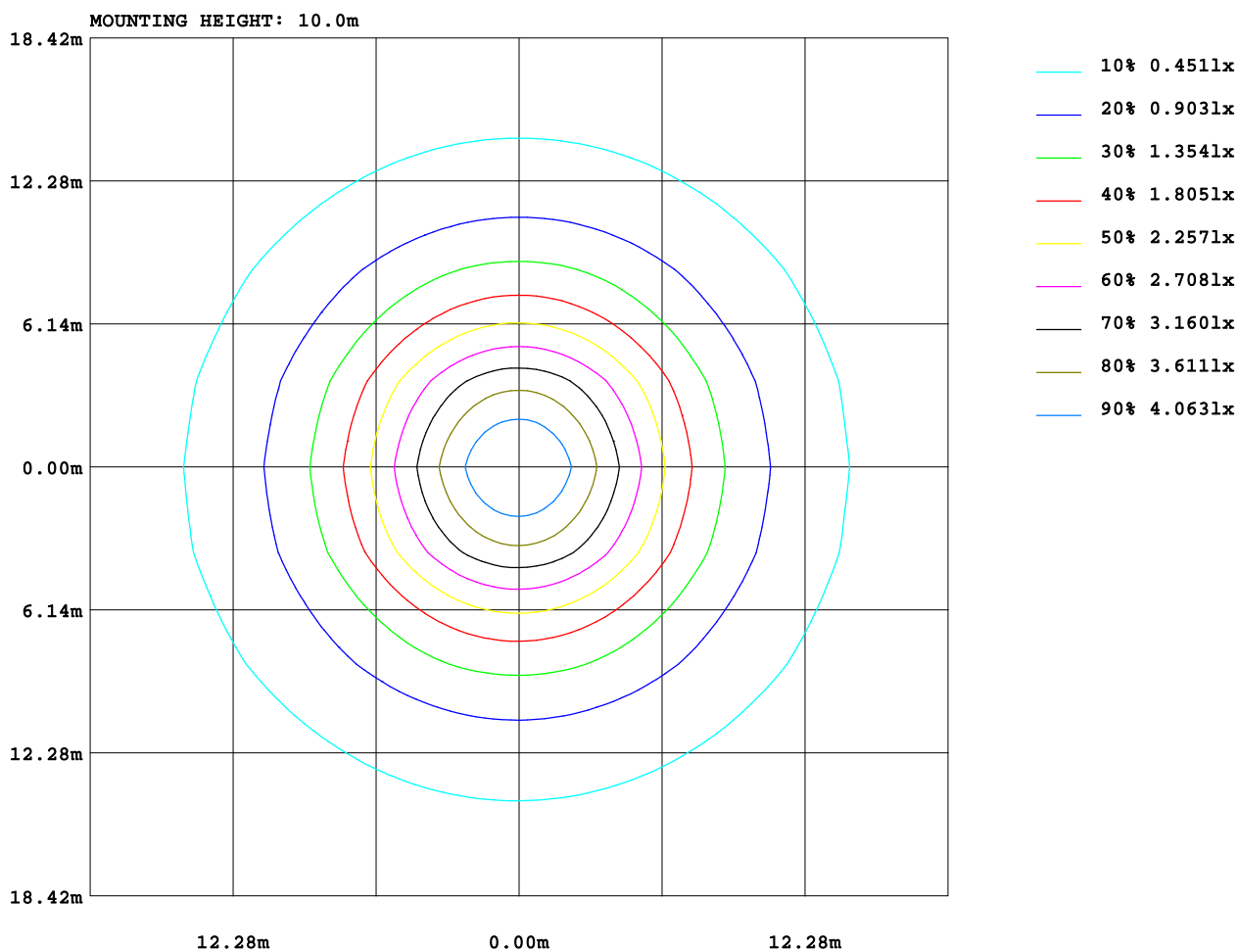
Test Set: 7.0deg/s B-Beta (TYPE B)  
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 Remarks:

# LUMINAIRE PHOTOMETRIC TEST REPORT

## ISOLUX DIAGRAM

Report number:

MANUFACTURER: SGSLIGHT LIMITED	Address:	
NAME: LED PANEL	TYPE:	WEIGHT:
SPECIFICATION:TLP-F-3060W-18	DIMENSION: 296X596X11MM	SERIAL No.:



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 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-3060W-18					DIMENSION: 296X596X11MM					SERIAL No.:				

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a		
	0.00	0.01	0.02	0.03	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.03	0.02	0.01	0.00	0.57	0.57		
90	0.01	0.09	0.30	0.62	1.01	1.41	1.79	2.07	2.24	2.26	2.12	1.85	1.49	1.10	0.71	0.38	0.14	0.02	19.6	19.6		
80	0.01	0.14	0.53	1.14	1.94	2.80	3.61	4.28	4.69	4.79	4.56	4.05	3.31	2.46	1.61	0.87	0.35	0.06	41.2	41.2		
70	0.05	0.40	1.11	2.16	3.40	4.69	5.84	6.69	7.14	7.11	6.61	5.71	4.53	3.25	2.02	1.01	0.34	0.03	62.1	62.1		
60	0.01	0.27	1.01	2.23	3.78	5.44	7.00	8.24	9.01	9.20	8.79	7.84	6.47	4.85	3.20	1.75	0.69	0.12	79.9	79.9		
50	0.09	0.68	1.84	3.50	5.44	7.39	9.09	10.3	10.9	10.8	10.1	8.74	6.96	5.01	3.12	1.55	0.51	0.04	96.2	96.2		
40	0.01	0.36	1.40	3.06	5.15	7.35	9.40	11.0	12.0	12.3	11.7	10.5	8.72	6.58	4.39	2.42	0.97	0.17	108	108		
30	0.13	0.88	2.33	4.38	6.71	9.04	11.0	12.5	13.2	13.1	12.2	10.5	8.42	6.06	3.78	1.87	0.59	0.05	117	117		
20	0.01	0.41	1.59	3.46	5.79	8.25	10.5	12.3	13.4	13.7	13.1	11.7	9.78	7.40	4.96	2.76	1.11	0.20	121	121		
10	0.14	0.95	2.50	4.64	7.07	9.49	11.5	13.1	13.8	13.6	12.6	10.9	8.72	6.26	3.89	1.91	0.60	0.05	122	122		
0	0.01	0.40	1.54	3.35	5.62	8.01	10.2	12.0	13.1	13.4	12.8	11.4	9.52	7.21	4.83	2.69	1.08	0.20	118	118		
-10	0.14	0.89	2.28	4.21	6.42	8.60	10.4	11.8	12.5	12.3	11.4	9.88	7.85	5.62	3.47	1.69	0.52	0.04	110	110		
-20	0.01	0.33	1.27	2.78	4.67	6.69	8.56	10.0	10.9	11.2	10.7	9.62	7.98	6.03	4.03	2.23	0.91	0.16	98.3	98.3		
-30	0.11	0.68	1.74	3.21	4.89	6.56	8.01	9.04	9.53	9.41	8.69	7.47	5.89	4.18	2.55	1.23	0.37	0.03	83.6	83.6		
-40	0.00	0.22	0.84	1.81	3.06	4.42	5.71	6.74	7.37	7.54	7.22	6.45	5.32	4.00	2.65	1.47	0.61	0.11	65.6	65.6		
-50	0.07	0.40	1.01	1.80	2.73	3.66	4.46	5.04	5.30	5.20	4.77	4.06	3.16	2.21	1.33	0.63	0.19	0.01	46.1	46.1		
-60	0.00	0.10	0.32	0.70	1.16	1.66	2.15	2.55	2.80	2.88	2.76	2.46	2.03	1.53	1.03	0.57	0.25	0.05	25.0	25.0		
-70	0.02	0.10	0.21	0.34	0.45	0.55	0.63	0.68	0.70	0.67	0.60	0.51	0.40	0.28	0.17	0.09	0.03	0.00	6.42	6.42		
-80	0.02	0.10	0.21	0.34	0.45	0.55	0.63	0.68	0.70	0.67	0.60	0.51	0.40	0.28	0.17	0.09	0.03	0.00	6.42	6.42		
-90	0.02	0.10	0.21	0.34	0.45	0.55	0.63	0.68	0.70	0.67	0.60	0.51	0.40	0.28	0.17	0.09	0.03	0.00	6.42	6.42		
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)				20	30	40	50	60	70	80	90		
Φ t	0.83	7.31	21.8	43.4	69.3	96.1	120	139	149	150	141	124	101	74.1	47.8	25.2	9.25	1.34	1329			
Φ a	0.83	7.31	21.8	43.4	69.3	96.1	120	139	149	150	141	124	101	74.1	47.8	25.2	9.25	1.34			1329	

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

Test Set: 7.0deg/s B-Beta (TYPE B)  
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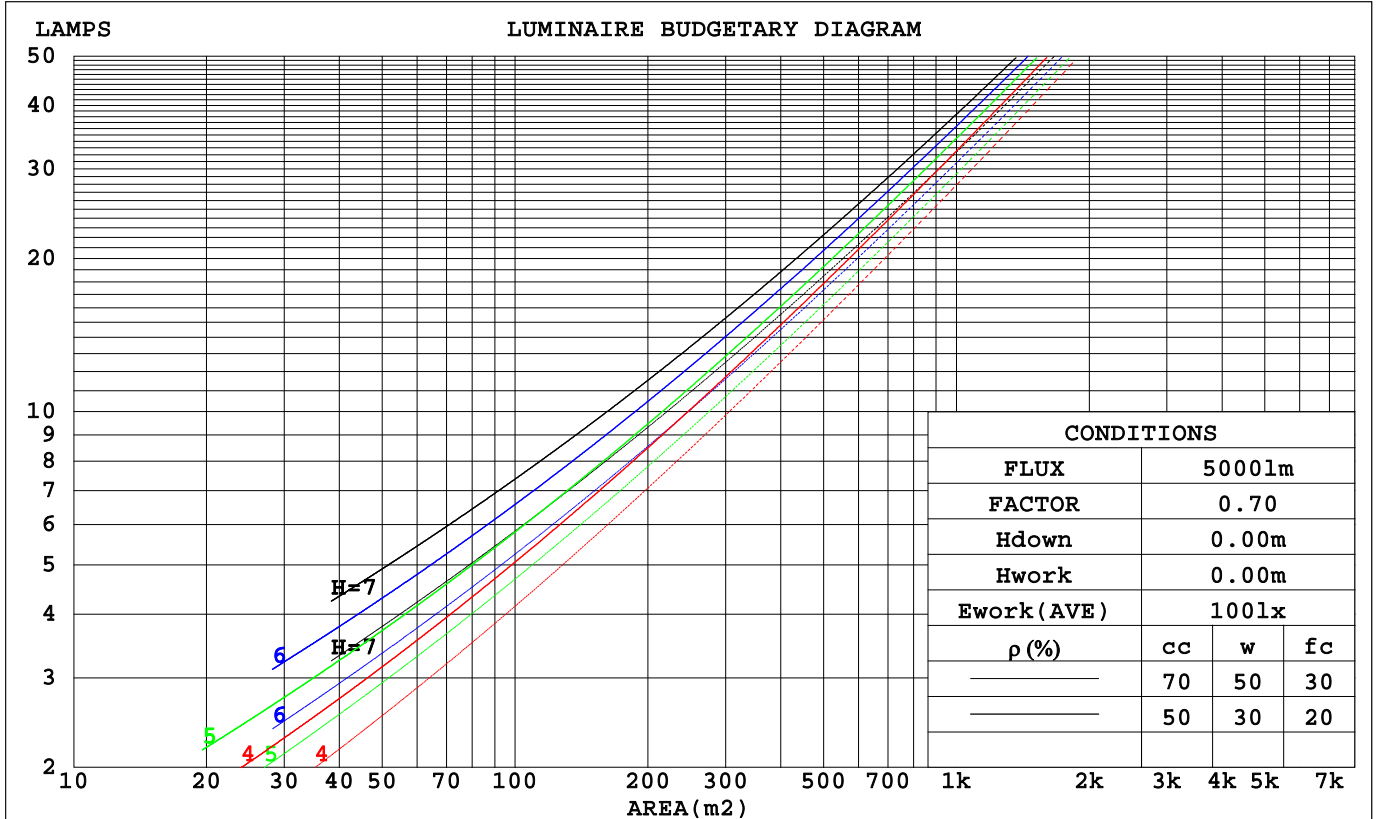
LUMINAIRE PHOTOMETRIC TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER: SGSLIGHT LIMITED				Address:							
NAME: LED PANEL				TYPE:				WEIGHT:			
SPECIFICATION:TLP-F-3060W-18				DIMENSION: 296X596X11MM				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	1.10	1.10	1.10	1.06	1.06	1.06	1.01	1.01	1.01	.99														
1.0	1.03	.99	.95	1.01	.97	.93	.96	.93	.90	.92	.90	.87	.89	.86	.84	.82														
2.0	.90	.83	.77	.88	.81	.76	.84	.79	.74	.81	.76	.72	.77	.74	.70	.68														
3.0	.79	.70	.64	.77	.69	.63	.74	.67	.62	.71	.65	.61	.68	.64	.59	.57														
4.0	.70	.61	.54	.68	.60	.53	.66	.58	.53	.63	.57	.52	.61	.55	.51	.49														
5.0	.62	.53	.46	.61	.52	.46	.59	.51	.45	.57	.50	.45	.55	.49	.44	.42														
6.0	.56	.47	.40	.55	.46	.40	.53	.45	.40	.51	.44	.39	.49	.43	.39	.37														
7.0	.51	.42	.36	.50	.41	.35	.48	.41	.35	.47	.40	.35	.45	.39	.34	.32														
8.0	.46	.38	.32	.45	.37	.32	.44	.37	.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	.26	.37	.30	.26	.36	.30	.25	.35	.29	.25	.23														



Test System:HOPOO HPG1900  
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 Test Date:2015-04-13

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-3060W-18	DIMENSION: 296X596X11MM	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	.315	.179	.057	.308	.176	.056	.294	.169	.054	.281	.162	.052	.269	.156	.050	
2.0	.295	.162	.050	.289	.159	.049	.276	.154	.048	.265	.149	.047	.254	.144	.045	
3.0	.272	.145	.043	.267	.143	.043	.256	.139	.042	.246	.135	.041	.236	.131	.040	
4.0	.251	.130	.038	.246	.129	.038	.236	.125	.037	.227	.122	.037	.219	.119	.036	
5.0	.232	.118	.034	.227	.117	.034	.218	.114	.033	.210	.111	.033	.203	.108	.033	
6.0	.215	.108	.031	.211	.106	.031	.203	.104	.030	.196	.102	.030	.189	.099	.030	
7.0	.200	.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	.175	.084	.024	.172	.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	.199	.199	.199	.170	.170	.170	.116	.116	.116	.067	.067	.067	.021	.021	.021	
1.0	.189	.165	.143	.162	.141	.123	.111	.097	.085	.064	.056	.049	.020	.018	.016	
2.0	.181	.141	.106	.155	.121	.092	.107	.084	.064	.061	.049	.038	.020	.016	.012	
3.0	.174	.123	.083	.149	.106	.072	.102	.074	.050	.059	.043	.030	.019	.014	.010	
4.0	.166	.110	.067	.143	.095	.058	.098	.066	.041	.057	.039	.024	.018	.013	.008	
5.0	.159	.100	.056	.136	.086	.049	.094	.060	.034	.054	.035	.020	.018	.012	.007	
6.0	.151	.091	.048	.130	.079	.042	.090	.055	.030	.052	.033	.018	.017	.011	.006	
7.0	.145	.084	.042	.124	.073	.037	.086	.051	.026	.050	.030	.015	.016	.010	.005	
8.0	.138	.079	.038	.119	.068	.033	.082	.048	.023	.048	.028	.014	.015	.009	.005	
9.0	.132	.074	.034	.114	.064	.030	.079	.045	.021	.046	.027	.013	.015	.009	.004	
10.0	.126	.069	.031	.109	.060	.027	.076	.042	.019	.044	.025	.012	.014	.008	.004	

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

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-3060W-18					DIMENSION: 296X596X11MM			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	16.1	17.6	16.3	17.8	18.0	15.9	17.4	16.2	17.7	17.9
3H	17.7	19.1	18.0	19.4	19.6	17.5	18.9	17.8	19.2	19.4
4H	18.4	19.7	18.7	20.0	20.3	18.2	19.5	18.5	19.8	20.0
6H	19.0	20.2	19.3	20.5	20.8	18.6	19.9	19.0	20.2	20.5
8H	19.2	20.4	19.5	20.7	21.0	18.8	20.0	19.2	20.3	20.6
12H	19.3	20.5	19.7	20.8	21.2	18.9	20.1	19.3	20.4	20.7
4H 2H	16.7	18.0	17.0	18.3	18.6	16.6	17.9	16.9	18.2	18.5
3H	18.5	19.7	18.9	20.0	20.3	18.3	19.5	18.7	19.8	20.1
4H	19.3	20.4	19.7	20.7	21.1	19.1	20.2	19.5	20.5	20.9
6H	20.0	21.0	20.4	21.3	21.7	19.7	20.7	20.1	21.0	21.4
8H	20.3	21.1	20.7	21.5	21.9	19.9	20.8	20.4	21.2	21.6
12H	20.5	21.3	20.9	21.7	22.1	20.1	20.9	20.6	21.4	21.8
8H 4H	19.6	20.5	20.0	20.9	21.3	19.4	20.3	19.8	20.7	21.1
6H	20.4	21.2	20.9	21.6	22.0	20.2	20.9	20.6	21.3	21.8
8H	20.8	21.4	21.2	21.9	22.3	20.5	21.1	21.0	21.6	22.1
12H	21.1	21.6	21.6	22.1	22.6	20.8	21.3	21.3	21.8	22.3
12H 4H	19.6	20.4	20.0	20.8	21.2	19.4	20.2	19.9	20.6	21.1
6H	20.5	21.1	21.0	21.6	22.1	20.2	20.9	20.7	21.3	21.8
8H	20.9	21.4	21.4	21.9	22.4	20.6	21.2	21.1	21.6	22.1
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 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 1329 lm Total Lamp Luminous Flux. (8log(F/F0) = 1.0)

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

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-3060W-18	DIMENSION: 296X596X11MM	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	38	31
0.80	67	55	48	66	55	47	64	54	47	40
1.00	75	64	56	74	63	56	72	65	56	48
1.25	82	72	64	81	71	64	78	69	63	56
1.50	87	77	70	86	76	70	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	72
3.00	102	95	89	99	93	88	95	90	85	77
4.00	106	100	95	103	98	94	99	94	91	81
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:2015-04-13

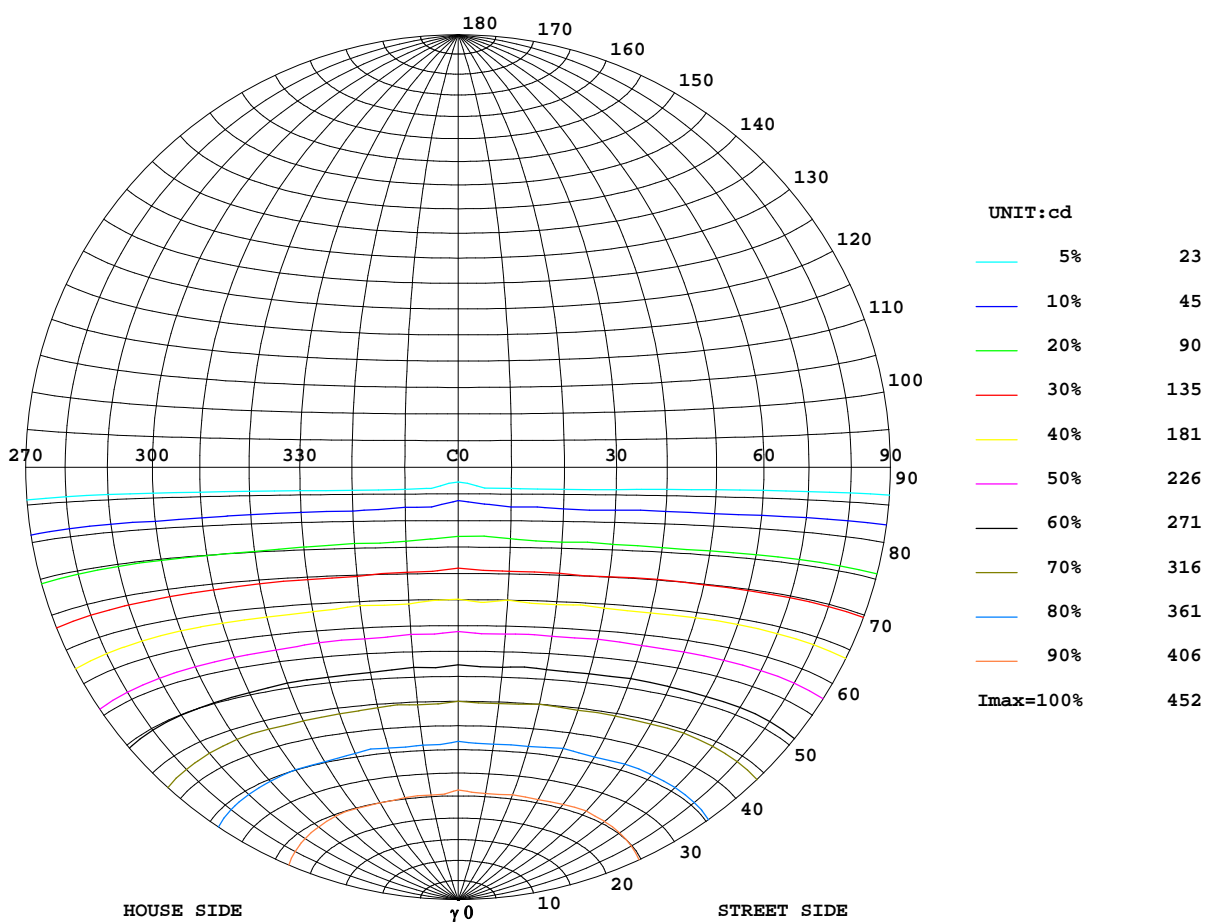
Test Set: 7.0deg/s B-Beta (TYPE B)  
 Humidity:65.0%  
 Test Distance:7.000 m  
 Remarks:

# LUMINAIRE PHOTOMETRIC TEST REPORT

## ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: SGSLIGHT LIMITED	Address:	
NAME: LED PANEL	TYPE:	WEIGHT:
SPECIFICATION:TLP-F-3060W-18	DIMENSION: 296X596X11MM	SERIAL No.:



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

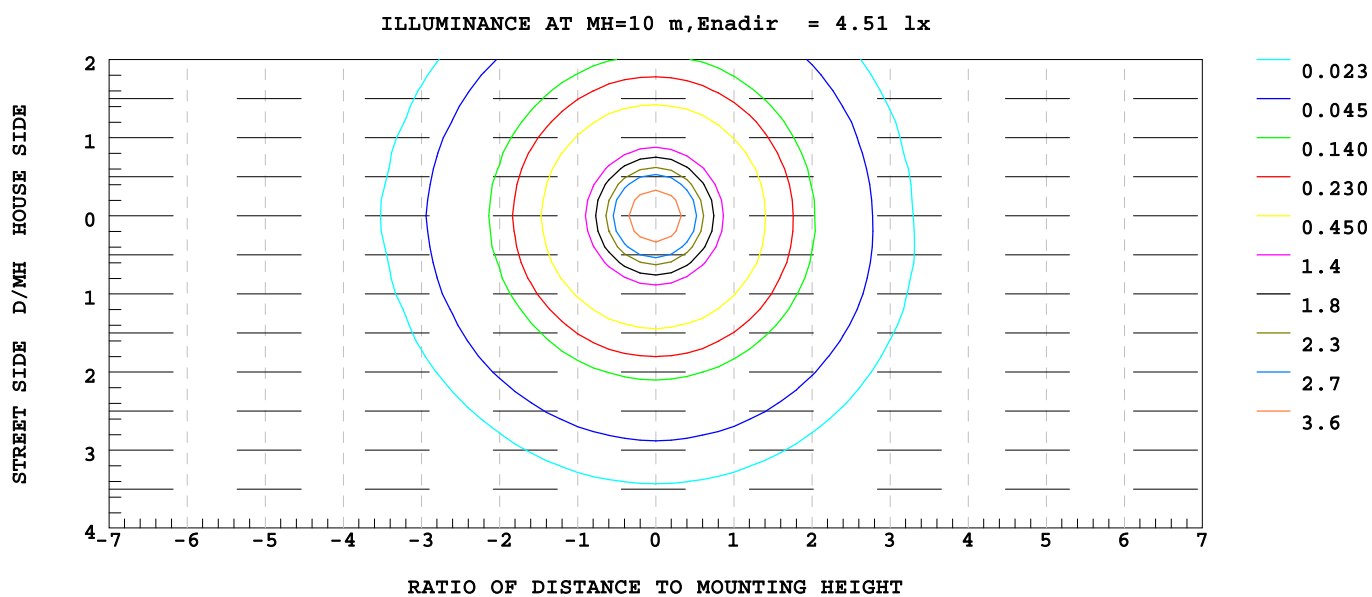
Test Set: 7.0deg/s B-Beta (TYPE B)  
 Humidity:65.0%  
 Test Distance:7.000 m  
 Remarks:

# LUMINAIRE PHOTOMETRIC TEST REPORT

## ISOLUX DIAGRAM

Report number:

MANUFACTURER: SGSLIGHT LIMITED	Address:	
NAME: LED PANEL	TYPE:	WEIGHT:
SPECIFICATION:TLP-F-3060W-18	DIMENSION: 296X596X11MM	SERIAL No.:



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

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:

<b>MANUFACTURER: SGSLIGHT LIMITED</b>	<b>Address:</b>	
<b>NAME: LED PANEL</b>	<b>TYPE:</b>	<b>WEIGHT:</b>
<b>SPECIFICATION:TLP-F-3060W-18</b>	<b>DIMENSION: 296X596X11MM</b>	<b>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	451	451	451	451	451	451	451	451	451	451	451	451	451	451	451
5.0	451	451	450	450	450	450	449	449	449	449	449	449	449	449	448
10.0	446	446	445	445	445	445	445	445	445	445	445	445	445	445	445
15.0	438	437	437	436	436	436	437	437	437	437	437	436	436	435	435
20.0	426	425	425	425	425	425	426	425	424	424	424	424	424	424	424
25.0	411	409	409	409	409	409	409	409	409	409	410	409	408	408	407
30.0	392	391	390	391	391	390	390	390	392	390	389	389	388	389	389
35.0	370	368	367	368	368	368	369	368	367	367	367	367	366	366	365
40.0	345	343	343	343	343	344	343	342	342	342	341	340	340	340	340
45.0	316	314	314	314	316	315	314	314	313	313	312	313	312	311	311
50.0	286	284	284	284	284	283	283	282	282	283	281	280	280	279	279
55.0	253	250	250	253	250	249	248	250	248	247	246	247	246	246	245
60.0	217	214	215	214	213	214	214	212	211	211	210	210	210	210	210
65.0	181	177	180	176	176	177	174	174	173	174	174	174	173	173	172
70.0	143	140	139	139	138	136	136	136	136	135	135	134	134	133	133
75.0	106	105	101	100	98.0	98.9	98.1	97.4	96.3	95.5	95.3	95.5	95.6	95.6	95.6
80.0	69.8	65.6	64.7	63.4	62.6	60.5	59.1	60.3	60.1	60.0	59.8	59.5	59.3	59.0	58.7
85.0	37.2	32.0	30.2	27.8	27.7	27.7	27.4	27.9	28.2	28.5	28.8	29.0	29.2	29.4	29.6
90.0	3.58	1.54	1.54	1.54	1.54	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51
95.0	2.22	1.88	1.83	1.76	1.77	1.73	1.71	1.70	1.71	1.69	1.70	1.69	1.68	1.69	1.69
100.0	2.22	2.22	2.06	1.93	2.00	1.93	1.95	1.89	1.91	1.88	1.90	1.87	1.85	1.88	1.87
105.0	2.56	2.36	2.19	2.37	2.23	2.12	2.14	2.07	2.10	2.05	2.09	2.05	2.03	2.07	2.05
110.0	2.90	2.85	2.67	2.54	2.39	2.43	2.32	2.36	2.29	2.23	2.27	2.23	2.28	2.25	2.23
115.0	3.21	3.01	2.82	2.66	2.72	2.59	2.53	2.54	2.46	2.52	2.45	2.40	2.47	2.43	2.40
120.0	3.21	3.16	3.17	3.00	2.85	2.78	2.80	2.70	2.61	2.69	2.62	2.57	2.65	2.61	2.58
125.0	3.55	3.39	3.23	3.09	3.20	3.06	2.95	2.85	2.94	2.86	2.79	2.88	2.83	2.79	2.75
130.0	3.89	3.73	3.58	3.43	3.30	3.18	3.07	3.19	3.09	3.01	2.94	3.06	3.01	2.96	2.93
135.0	3.89	3.75	3.63	3.50	3.39	3.53	3.42	3.32	3.24	3.16	3.29	3.23	3.18	3.13	3.10
140.0	4.23	4.10	3.98	3.86	3.74	3.64	3.54	3.45	3.37	3.52	3.45	3.39	3.34	3.30	3.27
145.0	4.23	4.12	4.02	3.92	3.82	3.73	3.64	3.82	3.74	3.67	3.61	3.55	3.50	3.46	3.58
150.0	4.23	4.14	4.05	4.01	4.18	4.10	4.02	3.94	3.87	3.81	3.75	3.71	3.66	3.63	3.63
155.0	4.57	4.49	4.41	4.33	4.26	4.19	4.12	4.06	4.00	3.95	3.90	3.86	3.82	3.86	4.01
160.0	4.57	4.50	4.44	4.38	4.32	4.27	4.22	4.16	4.12	4.08	4.04	4.19	4.01	4.22	4.19
165.0	4.57	4.52	4.48	4.43	4.39	4.35	4.31	4.27	4.40	4.36	4.30	4.44	4.41	4.39	4.37
170.0	4.57	4.55	4.56	4.59	4.65	4.73	4.72	4.69	4.66	4.64	4.62	4.60	4.58	4.56	4.55
175.0	4.91	4.89	4.87	4.86	4.84	4.83	4.81	4.80	4.78	4.77	4.76	4.75	4.74	4.73	4.81
180.0	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21

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

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:

<b>MANUFACTURER: SGSLIGHT LIMITED</b>	<b>Address:</b>		
<b>NAME: LED PANEL</b>	<b>TYPE:</b>	<b>WEIGHT:</b>	
<b>SPECIFICATION:TLP-F-3060W-18</b>	<b>DIMENSION: 296X596X11MM</b>	<b>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	451	451	451	451	451	451	451	451	451	451	451	451	451	451	451
5.0	448	448	448	448	448	448	448	448	448	448	447	447	447	447	447
10.0	445	445	445	445	445	445	444	444	444	443	443	442	442	441	441
15.0	435	434	434	434	434	433	433	433	432	432	432	432	433	433	432
20.0	424	423	423	423	423	422	421	420	420	419	418	418	418	417	418
25.0	407	406	406	406	405	404	404	404	403	403	403	402	401	400	400
30.0	388	388	388	388	387	386	386	385	384	383	382	382	381	381	379
35.0	365	364	364	363	363	362	362	361	361	361	362	359	358	357	356
40.0	340	339	339	338	338	337	336	335	334	334	333	333	333	332	330
45.0	310	309	309	309	308	307	307	306	306	305	304	303	303	302	303
50.0	279	279	279	279	278	278	277	276	275	274	273	273	272	270	270
55.0	245	245	244	244	243	243	242	242	242	241	240	238	237	236	236
60.0	210	210	209	209	209	208	207	207	206	205	205	204	205	203	201
65.0	172	171	171	171	171	171	170	170	169	169	168	168	167	166	166
70.0	133	133	133	133	133	133	133	133	132	132	131	131	130	129	129
75.0	95.6	95.6	95.6	95.6	95.4	95.4	95.3	95.4	95.2	95.3	95.1	95.1	95.0	94.3	93.5
80.0	58.5	58.4	58.3	58.2	58.1	58.0	58.2	58.4	58.7	59.2	59.5	59.9	60.0	60.2	60.1
85.0	29.7	29.8	29.8	29.8	29.7	29.6	29.5	29.4	29.3	29.3	29.3	29.2	29.1	28.9	28.5
90.0	1.51	1.51	1.51	1.47	1.47	1.51	1.51	1.51	1.51	1.58	2.03	2.41	2.87	3.32	3.66
95.0	1.68	1.68	1.70	1.68	1.68	1.70	1.68	1.69	1.69	1.73	1.91	2.02	2.11	2.14	2.05
100.0	1.86	1.86	1.89	1.88	1.89	1.89	1.87	1.87	1.88	1.89	1.82	1.68	1.42	1.04	0.51
105.0	2.03	2.04	2.07	2.09	2.09	2.08	2.06	2.05	2.07	2.07	1.81	1.43	0.94	0.17	0.00
110.0	2.21	2.24	2.26	2.30	2.29	2.27	2.28	2.23	2.25	2.28	1.91	1.30	0.60	0.00	0.00
115.0	2.38	2.46	2.45	2.51	2.48	2.46	2.44	2.40	2.43	2.47	2.22	1.34	0.44	0.00	0.00
120.0	2.56	2.65	2.64	2.71	2.67	2.65	2.56	2.58	2.68	2.65	2.53	1.68	0.69	0.00	0.00
125.0	2.73	2.84	2.83	2.92	2.84	2.84	2.83	2.85	2.82	2.83	2.88	2.30	1.09	0.05	0.00
130.0	2.99	3.03	3.02	3.13	3.02	3.03	3.05	2.96	2.96	3.01	3.06	2.91	1.94	0.75	0.00
135.0	3.16	3.22	3.21	3.34	3.21	3.22	3.24	3.27	3.13	3.31	3.23	3.29	3.03	1.95	0.75
140.0	3.32	3.41	3.40	3.55	3.40	3.41	3.43	3.32	3.45	3.34	3.47	3.45	3.52	3.31	2.60
145.0	3.62	3.60	3.59	3.75	3.61	3.65	3.62	3.65	3.68	3.58	3.55	3.69	3.67	3.74	3.82
150.0	3.80	3.79	3.78	3.96	3.87	3.97	3.80	3.83	3.82	3.79	3.79	3.75	3.99	3.87	3.94
155.0	3.99	3.97	3.96	4.17	4.15	4.02	3.99	4.01	4.04	4.02	4.11	4.10	3.95	4.00	4.13
160.0	4.17	4.16	4.22	4.38	4.31	4.16	4.39	4.19	4.22	4.24	4.28	4.12	4.36	4.17	4.38
165.0	4.36	4.35	4.52	4.58	4.41	4.45	4.36	4.60	4.39	4.41	4.44	4.47	4.50	4.54	4.50
170.0	4.54	4.61	4.79	4.79	4.56	4.73	4.65	4.55	4.62	4.84	4.67	4.62	4.64	4.66	4.69
175.0	4.92	5.00	5.00	5.00	4.88	4.76	4.81	4.93	4.99	4.89	4.79	4.76	4.77	4.78	4.82
180.0	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21

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

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:

<b>MANUFACTURER: SGSLIGHT LIMITED</b>	<b>Address:</b>	
<b>NAME: LED PANEL</b>	<b>TYPE:</b>	<b>WEIGHT:</b>
<b>SPECIFICATION:TLP-F-3060W-18</b>	<b>DIMENSION: 296X596X11MM</b>	<b>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	451	451	451	451	451	451	451	451	451	451	451	451	451	451	451
5.0	447	447	447	448	448	448	448	448	448	447	447	447	447	447	447
10.0	440	440	440	440	440	440	441	440	440	439	439	439	439	439	439
15.0	431	430	430	429	430	430	431	430	429	428	428	428	429	429	430
20.0	418	417	416	415	415	415	416	414	414	414	414	415	415	415	414
25.0	400	400	400	398	397	397	398	397	396	396	397	397	396	396	396
30.0	378	378	379	378	377	377	377	376	375	376	376	375	374	375	376
35.0	356	354	354	355	353	352	353	351	351	352	350	350	351	350	350
40.0	329	328	327	327	327	325	326	324	325	324	323	323	322	323	324
45.0	300	299	298	297	298	295	295	294	295	293	292	293	293	295	294
50.0	271	268	266	265	265	264	263	262	262	260	260	260	262	261	261
55.0	235	235	233	231	230	229	228	227	226	225	226	227	226	226	227
60.0	200	199	199	195	194	194	192	192	189	189	190	189	189	190	191
65.0	165	162	161	161	157	157	153	154	151	153	152	152	153	154	154
70.0	128	128	125	123	121	119	116	115	114	114	115	116	116	116	117
75.0	92.4	91.6	91.0	88.2	86.6	83.0	79.7	79.6	81.0	78.4	79.4	79.9	79.9	81.0	81.7
80.0	60.2	58.8	56.7	56.1	53.1	50.0	45.8	44.8	44.3	44.8	45.7	46.9	47.6	47.8	49.0
85.0	27.7	27.4	27.6	28.0	25.7	19.4	8.80	11.2	16.0	18.3	18.4	18.3	18.3	19.6	20.8
90.0	3.21	2.98	3.09	3.17	2.71	1.96	1.88	1.66	1.66	1.62	1.62	1.66	1.66	1.69	1.73
95.0	1.80	1.57	1.21	0.51	0.00	0.14	1.32	1.49	1.62	1.68	1.66	1.70	1.75	1.79	1.79
100.0	0.28	0.25	0.00	0.00	0.00	0.00	1.32	1.62	1.62	1.74	1.68	1.81	1.84	1.89	1.85
105.0	0.00	0.00	0.00	0.00	0.00	0.00	1.62	1.84	1.83	1.66	1.80	1.90	1.91	1.98	2.00
110.0	0.00	0.00	0.00	0.00	0.00	0.00	1.96	1.76	1.72	1.86	2.01	2.00	2.10	2.01	2.07
115.0	0.00	0.00	0.00	0.00	0.00	0.00	2.00	1.96	2.13	2.12	2.10	2.20	2.18	2.18	2.14
120.0	0.00	0.00	0.00	0.00	0.00	0.00	2.34	2.29	2.25	2.19	2.37	2.30	2.18	2.24	2.33
125.0	0.00	0.00	0.00	0.00	0.00	0.00	2.71	2.63	2.56	2.48	2.28	2.41	2.35	2.46	2.41
130.0	0.00	0.00	0.00	0.00	0.00	0.00	2.41	2.37	2.33	2.62	2.51	2.46	2.59	2.54	2.50
135.0	0.00	0.00	0.00	0.00	0.00	0.00	2.75	2.70	2.64	2.82	2.77	2.71	2.65	2.74	2.78
140.0	1.49	0.42	0.00	0.00	0.00	0.00	3.05	2.99	2.93	2.87	2.81	2.86	2.96	2.91	2.86
145.0	3.50	3.05	2.14	1.51	0.97	0.54	3.39	3.33	3.26	3.20	3.14	3.08	3.03	2.98	2.94
150.0	4.02	4.10	4.18	4.04	3.95	3.92	3.39	3.34	3.29	3.23	3.18	3.14	3.09	3.05	3.01
155.0	4.27	4.19	4.26	4.33	4.41	4.49	3.39	3.35	3.31	3.26	3.22	3.18	3.15	3.11	3.36
160.0	4.22	4.27	4.32	4.38	4.44	4.50	3.39	3.39	3.43	3.52	3.57	3.54	3.50	3.47	3.44
165.0	4.32	4.52	4.68	4.60	4.55	4.54	3.73	3.70	3.67	3.64	3.62	3.59	3.56	3.54	3.51
170.0	4.72	4.74	4.78	4.81	4.84	4.87	3.73	3.71	3.69	3.68	3.66	3.64	3.62	3.60	3.59
175.0	4.91	4.98	5.05	5.10	5.15	5.18	3.73	3.72	3.71	3.71	3.70	3.69	3.68	3.67	3.66
180.0	5.21	5.21	5.21	5.21	5.21	5.21	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73

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

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:

<b>MANUFACTURER: SGSLIGHT LIMITED</b>	<b>Address:</b>	
<b>NAME: LED PANEL</b>	<b>TYPE:</b>	<b>WEIGHT:</b>
<b>SPECIFICATION:TLP-F-3060W-18</b>	<b>DIMENSION: 296X596X11MM</b>	<b>SERIAL No.:</b>

UNIT: cd

C(DEG)\ γ (DEG)	225	230	235	240	245	250	255	260	265	270	275	280	285	290	295
0.0	451	451	451	451	451	451	451	451	451	451	451	451	451	451	451
5.0	446	446	446	446	446	447	447	447	447	447	447	447	447	447	447
10.0	439	440	440	441	441	441	442	442	442	442	442	442	443	443	443
15.0	430	429	429	429	429	429	430	430	430	430	431	431	431	432	432
20.0	414	414	414	415	415	416	417	417	418	419	419	419	419	420	420
25.0	396	397	397	397	397	397	398	398	399	399	400	401	401	402	403
30.0	375	375	375	376	376	377	378	379	380	380	381	381	382	382	382
35.0	351	351	353	353	353	353	353	354	355	355	356	357	357	358	359
40.0	325	324	324	325	325	326	327	328	329	330	331	331	332	333	333
45.0	294	294	295	296	296	296	297	298	298	299	300	301	302	303	304
50.0	262	262	262	263	264	265	266	267	268	268	269	270	270	271	272
55.0	227	228	229	230	230	230	231	232	232	233	234	235	236	237	238
60.0	192	192	193	193	194	195	195	196	197	198	199	200	200	201	202
65.0	154	155	155	156	157	158	158	159	159	160	161	162	162	163	164
70.0	117	118	119	119	120	120	121	121	122	122	123	123	124	125	126
75.0	82.3	82.7	83.0	83.6	84.0	84.4	84.8	85.3	85.7	86.2	86.7	87.2	87.8	88.3	88.7
80.0	48.9	49.2	49.1	49.3	49.2	49.2	49.3	49.5	49.8	50.2	50.7	51.3	51.8	52.5	53.1
85.0	21.7	22.5	23.2	23.8	24.3	24.7	25.1	25.4	25.7	25.9	26.1	26.3	26.3	26.4	26.3
90.0	1.73	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69
95.0	1.81	1.79	1.81	1.80	1.80	1.80	1.81	1.81	1.81	1.81	1.81	1.81	1.79	1.80	1.80
100.0	1.89	1.89	1.92	1.91	1.90	1.91	1.93	1.92	1.92	1.92	1.92	1.92	1.90	1.90	1.90
105.0	2.01	1.99	2.04	2.02	2.01	2.04	2.05	2.04	2.04	2.03	2.04	2.04	2.02	2.00	2.01
110.0	2.11	2.08	2.15	2.13	2.11	2.17	2.16	2.15	2.15	2.15	2.15	2.15	2.16	2.09	2.11
115.0	2.20	2.21	2.25	2.23	2.21	2.29	2.28	2.27	2.26	2.26	2.26	2.27	2.28	2.19	2.21
120.0	2.29	2.39	2.36	2.33	2.31	2.41	2.39	2.38	2.38	2.37	2.38	2.38	2.39	2.29	2.31
125.0	2.47	2.50	2.46	2.43	2.41	2.53	2.51	2.50	2.49	2.49	2.49	2.50	2.51	2.39	2.41
130.0	2.64	2.59	2.56	2.53	2.66	2.64	2.62	2.61	2.60	2.60	2.60	2.61	2.62	2.48	2.50
135.0	2.73	2.69	2.65	2.62	2.78	2.76	2.74	2.72	2.72	2.71	2.72	2.72	2.74	2.76	2.60
140.0	2.82	2.78	2.74	2.92	2.89	2.87	2.85	2.84	2.83	2.83	2.83	2.84	2.85	2.87	2.69
145.0	2.90	2.86	3.01	3.03	3.00	2.98	2.96	2.95	2.94	2.94	2.94	2.95	2.96	2.98	2.99
150.0	2.98	3.19	3.16	3.13	3.11	3.09	3.07	3.06	3.06	3.05	3.06	3.06	3.07	3.09	3.11
155.0	3.32	3.29	3.26	3.24	3.22	3.20	3.19	3.18	3.17	3.17	3.17	3.18	3.19	3.20	3.22
160.0	3.41	3.38	3.36	3.34	3.32	3.31	3.30	3.29	3.28	3.28	3.28	3.29	3.30	3.31	3.32
165.0	3.49	3.47	3.45	3.44	3.43	3.41	3.41	3.40	3.40	3.39	3.40	3.40	3.41	3.41	3.43
170.0	3.57	3.56	3.55	3.54	3.53	3.52	3.52	3.51	3.51	3.51	3.51	3.51	3.52	3.52	3.53
175.0	3.65	3.65	3.64	3.64	3.63	3.63	3.63	3.62	3.62	3.62	3.62	3.62	3.63	3.63	3.63
180.0	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73

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

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:

<b>MANUFACTURER: SGSLIGHT LIMITED</b>	<b>Address:</b>	
<b>NAME: LED PANEL</b>	<b>TYPE:</b>	<b>WEIGHT:</b>
<b>SPECIFICATION:TLP-F-3060W-18</b>	<b>DIMENSION: 296X596X11MM</b>	<b>SERIAL No.:</b>

UNIT: cd

C(DEG)\ γ (DEG)	300	305	310	315	320	325	330	335	340	345	350	355
0.0	451	451	451	451	451	451	451	451	451	451	451	451
5.0	448	448	448	448	448	449	449	449	449	450	450	450
10.0	443	443	443	443	443	443	443	444	444	444	445	446
15.0	433	434	434	434	435	435	435	435	435	436	436	437
20.0	420	420	420	421	422	423	424	424	423	424	424	425
25.0	404	405	406	406	406	406	406	407	408	407	408	409
30.0	383	384	385	386	388	387	387	388	389	389	389	390
35.0	360	362	361	362	363	365	366	366	366	367	366	367
40.0	334	334	335	336	337	338	339	341	341	341	342	342
45.0	306	306	307	307	308	310	310	312	314	313	313	313
50.0	273	274	275	278	277	278	279	280	282	282	283	283
55.0	238	240	240	241	243	246	245	246	247	251	249	249
60.0	202	203	204	205	206	207	211	211	211	213	214	214
65.0	165	167	167	168	168	169	171	174	174	175	179	176
70.0	126	127	129	130	131	132	132	133	137	137	139	139
75.0	89.2	89.7	90.2	90.9	92.2	94.0	95.1	96.5	96.2	99.4	100	104
80.0	53.8	54.6	55.4	56.1	56.8	56.8	56.8	58.7	61.1	62.9	64.4	65.6
85.0	26.3	26.2	26.2	26.1	26.1	26.0	25.8	26.5	26.9	27.4	30.0	32.3
90.0	1.69	1.69	1.73	1.73	1.77	1.73	1.73	1.69	1.69	1.69	1.69	1.69
95.0	1.78	1.79	1.81	1.79	1.80	1.78	1.73	1.69	1.64	1.55	1.39	1.18
100.0	1.89	1.88	1.88	1.84	1.85	1.83	1.77	1.65	1.57	1.44	1.20	0.98
105.0	2.02	1.97	1.95	1.89	1.87	1.87	1.82	1.73	1.68	1.52	1.26	1.15
110.0	2.13	2.06	2.02	2.04	1.96	1.92	1.89	1.83	1.73	1.66	1.40	1.41
115.0	2.23	2.14	2.12	2.11	2.00	1.93	1.97	1.88	1.86	1.73	1.47	1.57
120.0	2.33	2.26	2.25	2.18	2.21	2.07	2.04	2.02	1.98	1.93	1.86	1.73
125.0	2.43	2.46	2.34	2.32	2.27	2.28	2.14	2.00	2.08	2.03	2.06	2.06
130.0	2.53	2.56	2.50	2.45	2.34	2.36	2.40	2.21	2.25	2.11	2.32	2.16
135.0	2.62	2.65	2.69	2.52	2.56	2.53	2.45	2.49	2.54	2.30	2.34	2.37
140.0	2.71	2.74	2.78	2.82	2.74	2.67	2.71	2.62	2.57	2.61	2.66	2.71
145.0	2.80	2.83	2.86	2.90	2.94	2.98	2.82	2.81	2.85	2.90	2.95	3.00
150.0	3.02	2.92	2.94	2.98	3.01	3.05	3.09	3.14	3.18	3.23	3.13	3.05
155.0	3.24	3.25	3.02	3.05	3.08	3.11	3.15	3.18	3.22	3.26	3.31	3.35
160.0	3.34	3.36	3.38	3.41	3.15	3.17	3.20	3.23	3.26	3.29	3.33	3.36
165.0	3.44	3.45	3.47	3.49	3.51	3.54	3.56	3.59	3.59	3.49	3.42	3.39
170.0	3.54	3.55	3.56	3.57	3.59	3.60	3.62	3.64	3.66	3.68	3.69	3.71
175.0	3.64	3.64	3.65	3.65	3.66	3.67	3.68	3.69	3.70	3.71	3.71	3.72
180.0	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73

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

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