

# LUMINAIRE PHOTOMETRIC TEST REPORT

## LAMP PHOTOMETRIC REPORT

MODEL: TLP-F-3030W-18

POWER: 18W

VOLTAGE: 230V

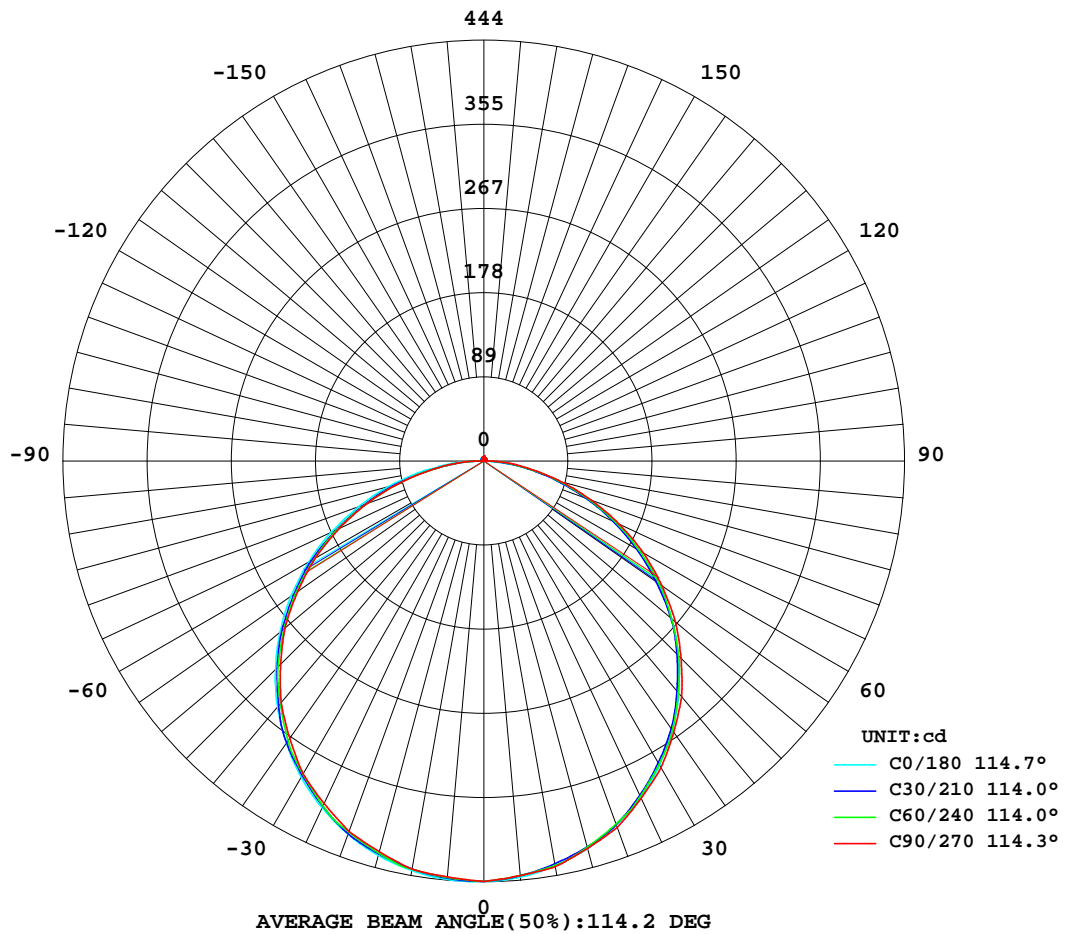
WORKING VOLTAGE: 219.0V

MANUFACTURER: SGSLIGHT LIMITED

TOTAL FLUX: 1307.2 lm

Efficiency: 69.903 lm/W

Test: U: 230.1V I: 0.087A P: 18.70W PF: 0.944



Test System:HOPPO HPG1900  
Temperature:25.3DEG  
Operators:TOM CHEN  
Test Date:2015-04-26

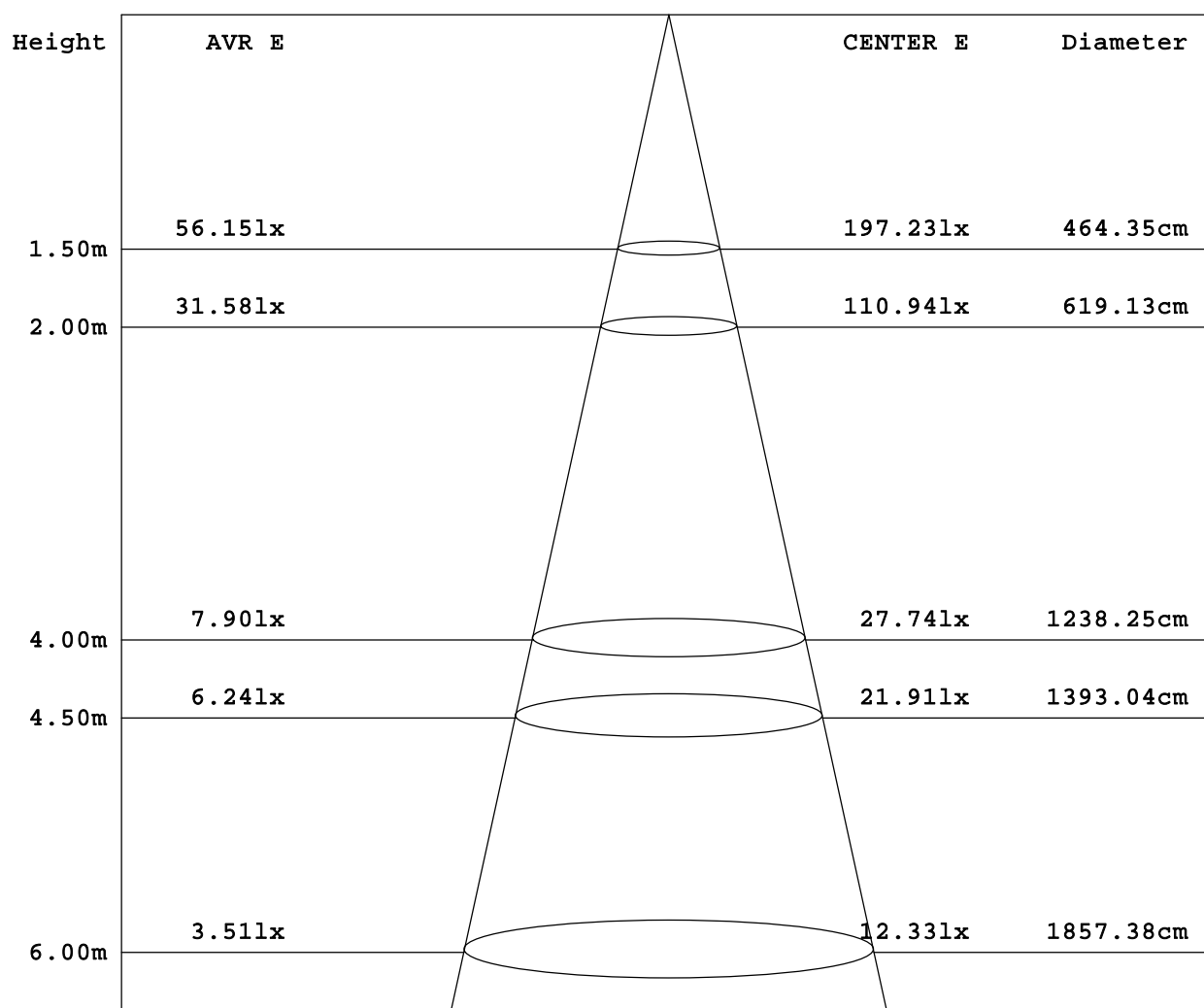
Test Set: 7.0deg/s B-Beta (TYPE B)  
Humidity:65.0%  
Test Distance:7.000 m  
Remarks:

# LUMINAIRE PHOTOMETRIC TEST REPORT

## AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER: SGSLIGHT LIMITED	Address:	
NAME: LED PANEL	TYPE:	WEIGHT:
SPECIFICATION:TLP-F-3030W-18	DIMENSION: 296X296X11MM	SERIAL No.:



Angle:114.3deg

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:TOM CHEN  
 Test Date:2015-04-26

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-3030W-18	DIMENSION: 296X296X11MM	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	zone	total
5.0	443.5	441.6	440.7	440.0	440.9	439.1	439.3	440.8	0- 5	10.56	10.56
10.0	439.0	437.3	437.6	434.1	433.6	432.3	434.8	435.7	5- 10	31.32	41.89
15.0	430.9	429.9	426.9	425.6	423.5	422.5	423.2	427.3	10- 15	51.07	92.97
20.0	419.3	416.7	416.1	410.7	408.7	407.1	411.6	413.9	15- 20	69.09	162.0
25.0	403.9	402.4	398.9	394.4	391.6	389.8	392.8	399.2	20- 25	84.88	246.9
30.0	385.5	383.8	381.6	374.6	371.1	368.8	374.0	379.8	25- 30	97.83	344.7
35.0	363.5	360.7	357.3	351.6	346.8	344.8	349.4	356.0	30- 35	107.6	452.4
40.0	338.9	336.2	332.9	327.7	320.2	319.6	324.8	330.9	35- 40	113.7	566.1
45.0	310.8	307.5	303.5	298.0	290.3	289.0	294.3	302.2	40- 45	116.2	682.3
50.0	281.2	278.4	274.1	267.2	258.7	257.5	263.9	273.3	45- 50	114.7	797.1
55.0	248.8	242.7	239.9	234.1	223.8	223.2	229.3	237.3	50- 55	109.4	906.6
60.0	213.5	207.3	205.6	201.1	188.6	189.0	194.7	201.8	55- 60	100.4	1007
65.0	178.0	170.7	168.2	164.3	150.7	151.7	157.4	165.1	60- 65	88.24	1095
70.0	140.5	133.1	130.7	128.1	114.2	115.3	120.2	127.7	65- 70	73.15	1168
75.0	104.0	94.01	94.04	93.48	78.47	81.00	84.84	89.41	70- 75	56.29	1225
80.0	68.70	59.06	57.29	59.04	45.14	48.19	49.45	55.21	75- 80	38.66	1263
85.0	36.67	28.06	29.37	28.66	8.657	21.40	25.56	25.74	80- 85	21.65	1285
90.0	3.529	1.486	1.449	2.823	1.857	1.709	1.672	1.709	85- 90	7.338	1292
95.0	2.192	1.669	1.653	2.082	1.300	1.787	1.783	1.761	90- 95	0.944	1293
100.0	2.192	1.850	1.857	1.405	1.300	1.865	1.894	1.813	95-100	0.887	1294
105.0	2.526	2.026	2.062	0.929	1.597	1.977	2.006	1.863	100-105	0.892	1295
110.0	2.861	2.194	2.266	0.586	1.932	2.076	2.117	2.012	105-110	0.926	1296
115.0	3.158	2.479	2.470	0.435	1.969	2.168	2.229	2.081	110-115	0.959	1297
120.0	3.158	2.652	2.675	0.678	2.303	2.255	2.340	2.146	115-120	0.990	1298
125.0	3.492	2.815	2.879	1.073	2.675	2.437	2.452	2.285	120-125	1.010	1299
130.0	3.827	2.968	3.084	1.910	2.378	2.598	2.563	2.413	125-130	1.019	1300
135.0	3.827	3.113	3.288	2.984	2.712	2.688	2.675	2.485	130-135	1.017	1301
140.0	4.161	3.469	3.492	3.469	3.009	2.774	2.786	2.774	135-140	1.006	1302
145.0	4.161	3.615	3.697	3.615	3.344	2.854	2.898	2.854	140-145	0.991	1303
150.0	4.161	3.753	3.901	3.930	3.344	2.931	3.009	2.931	145-150	0.975	1304
155.0	4.495	3.885	4.105	3.885	3.344	3.271	3.121	3.005	150-155	0.897	1305
160.0	4.495	4.013	4.310	4.292	3.344	3.356	3.232	3.356	155-160	0.771	1306
165.0	4.495	4.297	4.514	4.431	3.678	3.439	3.344	3.439	160-165	0.631	1306
170.0	4.495	4.566	4.718	4.566	3.678	3.520	3.455	3.520	165-170	0.474	1307
175.0	4.830	4.698	4.923	4.698	3.678	3.599	3.567	3.599	170-175	0.296	1307
180.0	5.127	5.127	5.127	5.127	3.678	3.678	3.678	3.678	175-180	0.102	1307
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:TOM CHEN  
 Test Date:2015-04-26

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

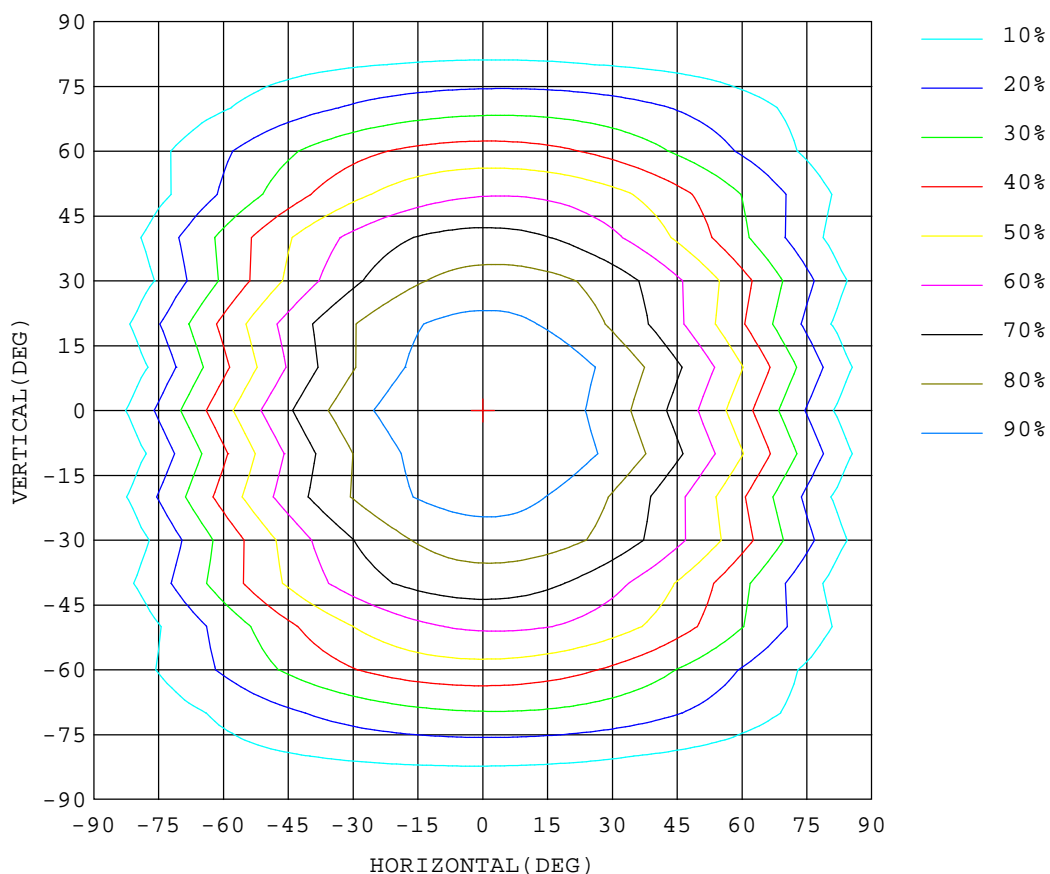
# LUMINAIRE PHOTOMETRIC TEST REPORT

## ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: SGSLIGHT LIMITED	Address:	
NAME: LED PANEL	TYPE:	WEIGHT:
SPECIFICATION:TLP-F-3030W-18	DIMENSION: 296X296X11MM	SERIAL No.:

UNIT: cd



Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:TOM CHEN  
 Test Date:2015-04-26

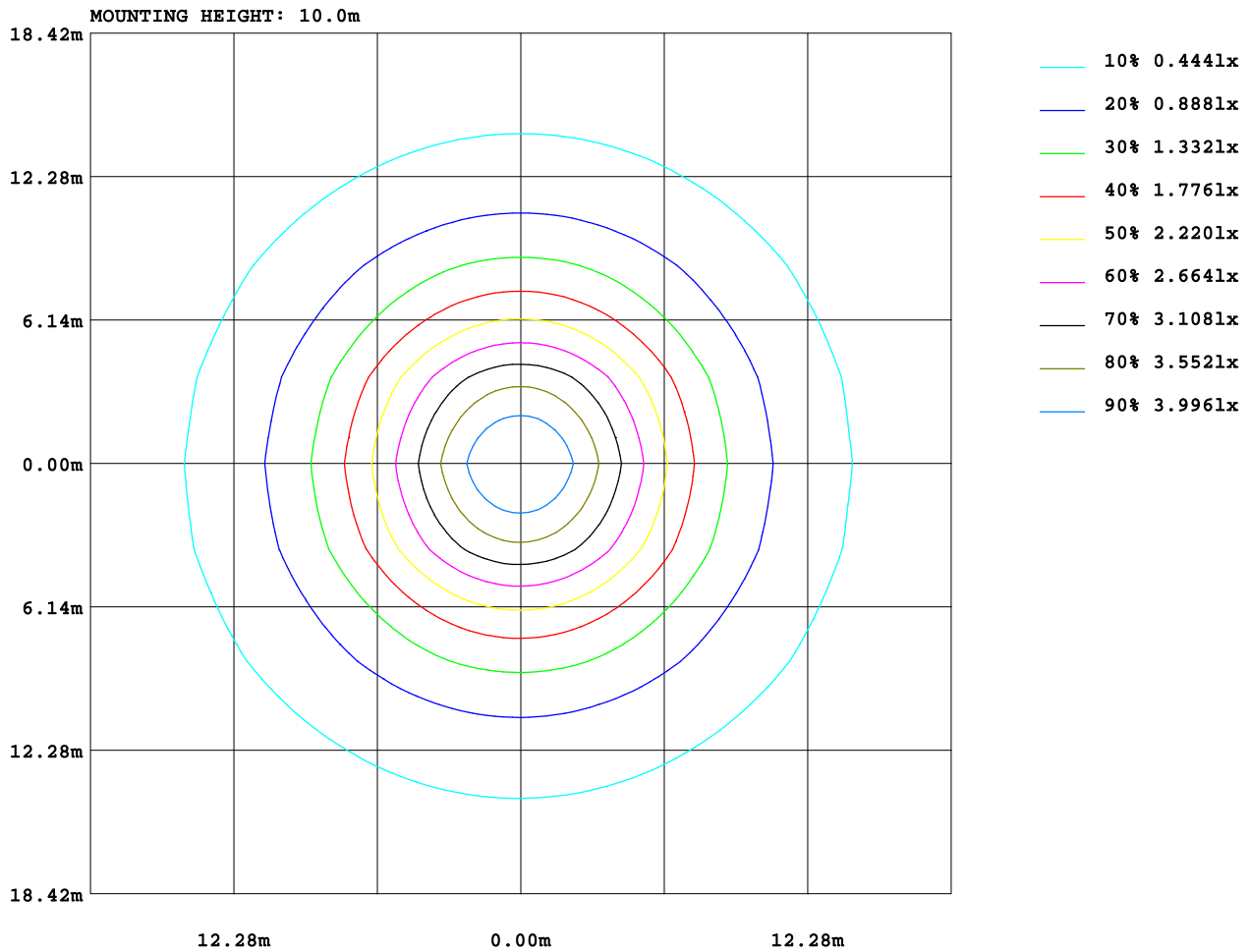
Test Set: 7.0deg/s B-Beta (TYPE B)  
 Humidity:65.0%  
 Test Distance:7.000 m  
 Remarks:

# LUMINAIRE PHOTOMETRIC TEST REPORT

## ISOLUX DIAGRAM

Report number:

MANUFACTURER: SGSLIGHT LIMITED	Address:	
NAME: LED PANEL	TYPE:	WEIGHT:
SPECIFICATION:TLP-F-3030W-18	DIMENSION: 296X296X11MM	SERIAL No.:



Test System:HOPOO HPG1900  
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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-3030W-18										DIMENSION: 296X296X11MM 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	0.56	0.56		
90	0.01	0.09	0.30	0.61	0.99	1.39	1.76	2.04	2.20	2.22	2.09	1.82	1.47	1.08	0.70	0.37	0.14	0.02	19.3	19.3		
80	0.01	0.14	0.52	1.12	1.91	2.75	3.56	4.21	4.61	4.71	4.49	3.98	3.25	2.42	1.58	0.86	0.34	0.06	40.5	40.5		
70	0.05	0.39	1.09	2.12	3.34	4.61	5.75	6.58	7.02	6.99	6.51	5.62	4.46	3.19	1.99	1.00	0.34	0.03	61.1	61.1		
60	0.01	0.26	1.00	2.20	3.72	5.35	6.89	8.11	8.86	9.05	8.65	7.71	6.36	4.77	3.15	1.72	0.68	0.12	78.6	78.6		
50	0.09	0.67	1.81	3.45	5.35	7.27	8.94	10.1	10.7	10.6	9.93	8.59	6.85	4.93	3.07	1.52	0.50	0.04	94.6	94.6		
40	0.01	0.35	1.38	3.01	5.06	7.23	9.25	10.8	11.8	12.0	11.5	10.3	8.57	6.47	4.32	2.39	0.95	0.17	106	106		
30	0.13	0.86	2.29	4.31	6.60	8.90	10.8	12.3	13.0	12.9	12.0	10.3	8.28	5.96	3.72	1.84	0.58	0.05	115	115		
20	0.01	0.40	1.56	3.40	5.69	8.12	10.3	12.1	13.2	13.5	12.9	11.6	9.62	7.28	4.88	2.71	1.09	0.20	119	119		
10	0.14	0.94	2.46	4.56	6.96	9.34	11.4	12.8	13.6	13.4	12.4	10.7	8.57	6.16	3.82	1.88	0.59	0.05	120	120		
0	0.01	0.40	1.51	3.30	5.52	7.87	10.0	11.8	12.9	13.1	12.6	11.2	9.37	7.09	4.75	2.65	1.06	0.20	116	116		
-10	0.13	0.87	2.24	4.14	6.31	8.46	10.3	11.6	12.3	12.1	11.2	9.72	7.72	5.53	3.41	1.66	0.51	0.04	109	109		
-20	0.01	0.33	1.25	2.73	4.59	6.58	8.42	9.90	10.8	11.0	10.5	9.46	7.85	5.93	3.96	2.20	0.89	0.16	96.7	96.7		
-30	0.11	0.67	1.71	3.15	4.81	6.46	7.88	8.90	9.38	9.25	8.54	7.34	5.80	4.11	2.51	1.21	0.37	0.02	82.2	82.2		
-40	0.00	0.22	0.82	1.78	3.01	4.35	5.61	6.63	7.25	7.42	7.10	6.34	5.24	3.93	2.61	1.44	0.60	0.11	64.5	64.5		
-50	0.07	0.39	0.99	1.77	2.68	3.60	4.39	4.96	5.21	5.12	4.69	4.00	3.11	2.17	1.31	0.62	0.19	0.01	45.3	45.3		
-60	0.00	0.09	0.32	0.69	1.14	1.63	2.11	2.50	2.76	2.83	2.71	2.42	2.00	1.51	1.01	0.57	0.24	0.05	24.6	24.6		
-70	0.02	0.10	0.20	0.33	0.44	0.54	0.62	0.67	0.69	0.66	0.59	0.50	0.39	0.28	0.17	0.08	0.03	0.00	6.32	6.32		
-80	0.02	0.10	0.20	0.33	0.44	0.54	0.62	0.67	0.69	0.66	0.59	0.50	0.39	0.28	0.17	0.08	0.03	0.00	6.32	6.32		
-90	0.02	0.10	0.20	0.33	0.44	0.54	0.62	0.67	0.69	0.66	0.59	0.50	0.39	0.28	0.17	0.08	0.03	0.00	6.32	6.32		
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)				20	30	40	50	60	70	80	90		
Φ t	0.82	7.19	21.5	42.7	68.2	94.5	118	136	147	147	139	122	99.0	72.9	47.0	24.7	9.10	1.32	1307			
Φ a	0.82	7.19	21.5	42.7	68.2	94.5	118	136	147	147	139	122	99.0	72.9	47.0	24.7	9.10	1.32		1307		

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:TOM CHEN  
 Test Date:2015-04-26

Test Set: 7.0deg/s B-Beta (TYPE B)  
 Humidity:65.0%  
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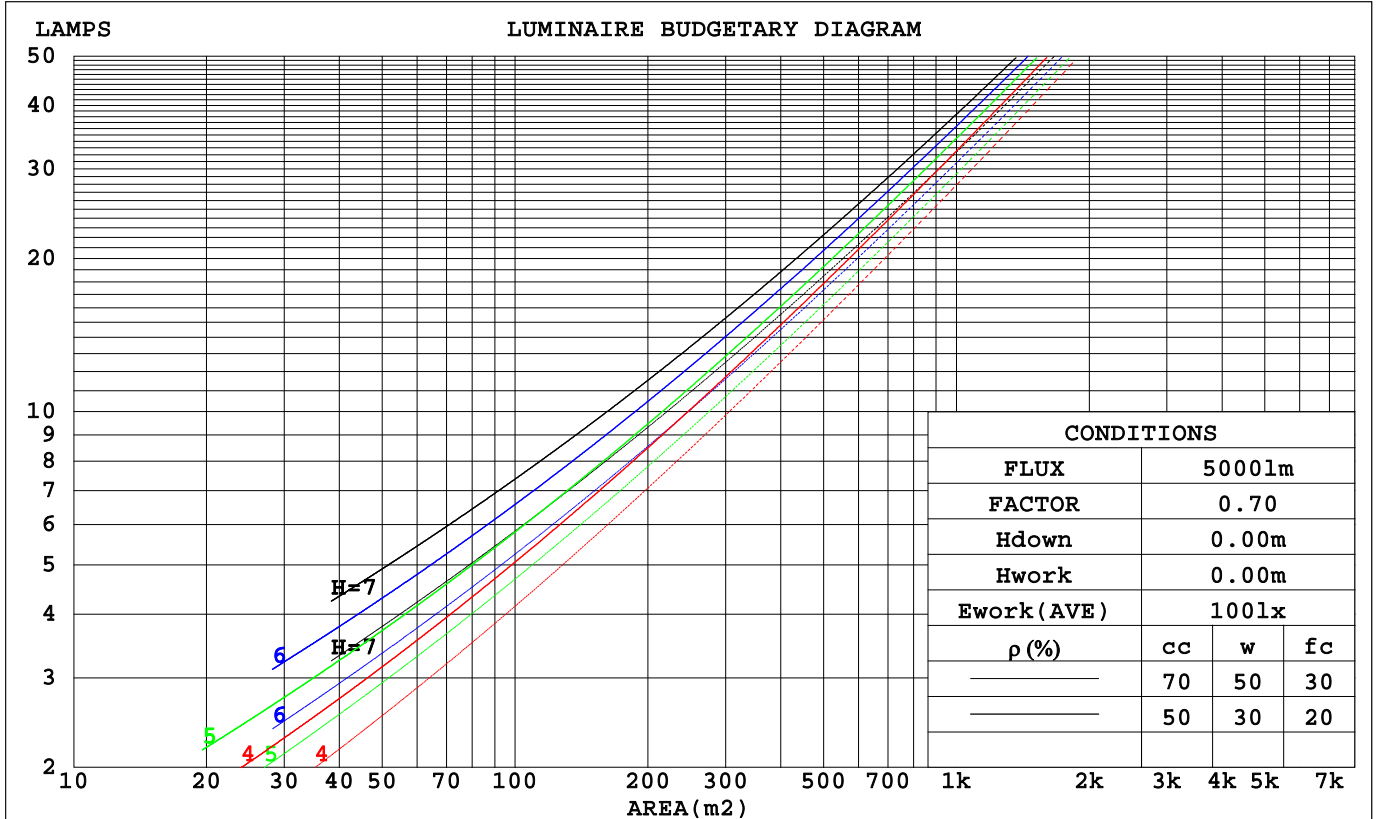
LUMINAIRE PHOTOMETRIC TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER: SGSLIGHT LIMITED				Address:							
NAME: LED PANEL				TYPE:				WEIGHT:			
SPECIFICATION:TLP-F-3030W-18				DIMENSION: 296X296X11MM				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 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-3030W-18	DIMENSION: 296X296X11MM	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:2015-04-26

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-3030W-18						DIMENSION: 296X296X11MM			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	18.4	19.9	18.7	20.2	20.4	18.3	19.8	18.6	20.0	20.3	
3H	20.1	21.5	20.4	21.7	22.0	19.9	21.3	20.2	21.5	21.8	
4H	20.8	22.1	21.1	22.4	22.6	20.5	21.8	20.8	22.1	22.4	
6H	21.3	22.6	21.7	22.9	23.2	21.0	22.2	21.3	22.5	22.8	
8H	21.5	22.7	21.9	23.0	23.4	21.2	22.4	21.5	22.7	23.0	
12H	21.7	22.9	22.1	23.2	23.5	21.3	22.5	21.7	22.8	23.1	
4H 2H	19.0	20.4	19.4	20.6	20.9	18.9	20.3	19.3	20.5	20.8	
3H	20.8	22.0	21.2	22.3	22.7	20.7	21.8	21.1	22.2	22.5	
4H	21.7	22.7	22.1	23.1	23.4	21.5	22.5	21.8	22.9	23.2	
6H	22.4	23.3	22.8	23.7	24.1	22.1	23.0	22.5	23.4	23.8	
8H	22.6	23.5	23.0	23.9	24.3	22.3	23.2	22.7	23.6	24.0	
12H	22.8	23.6	23.3	24.0	24.5	22.5	23.3	22.9	23.7	24.1	
8H 4H	21.9	22.8	22.4	23.2	23.6	21.8	22.6	22.2	23.0	23.4	
6H	22.8	23.5	23.2	23.9	24.4	22.5	23.3	23.0	23.7	24.1	
8H	23.1	23.8	23.6	24.2	24.7	22.8	23.5	23.3	23.9	24.4	
12H	23.4	24.0	23.9	24.4	24.9	23.1	23.7	23.6	24.2	24.7	
12H 4H	21.9	22.8	22.4	23.2	23.6	21.8	22.6	22.2	23.0	23.4	
6H	22.8	23.5	23.3	23.9	24.4	22.6	23.2	23.1	23.7	24.2	
8H	23.2	23.8	23.7	24.2	24.7	23.0	23.5	23.5	24.0	24.5	
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 1307 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.9)

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:TOM CHEN  
 Test Date:2015-04-26

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-3030W-18	DIMENSION: 296X296X11MM	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:2015-04-26

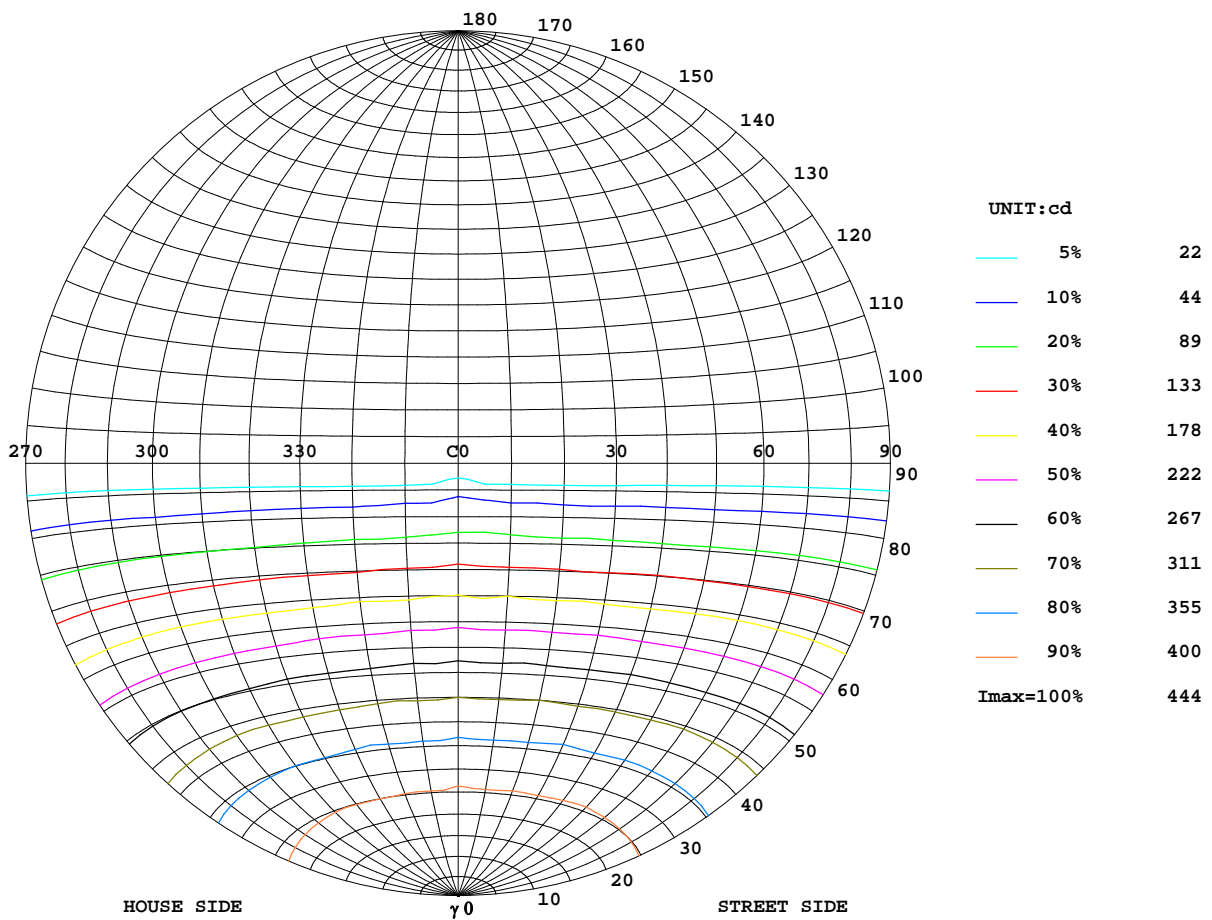
Test Set: 7.0deg/s B-Beta (TYPE B)  
 Humidity:65.0%  
 Test Distance:7.000 m  
 Remarks:

# LUMINAIRE PHOTOMETRIC TEST REPORT

## ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: SGSLIGHT LIMITED	Address:	
NAME: LED PANEL	TYPE:	WEIGHT:
SPECIFICATION:TLP-F-3030W-18	DIMENSION: 296X296X11MM	SERIAL No.:



Test System:HOPPOO HPG1900  
 Temperature:25.3DEG  
 Operators:TOM CHEN  
 Test Date:2015-04-26

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

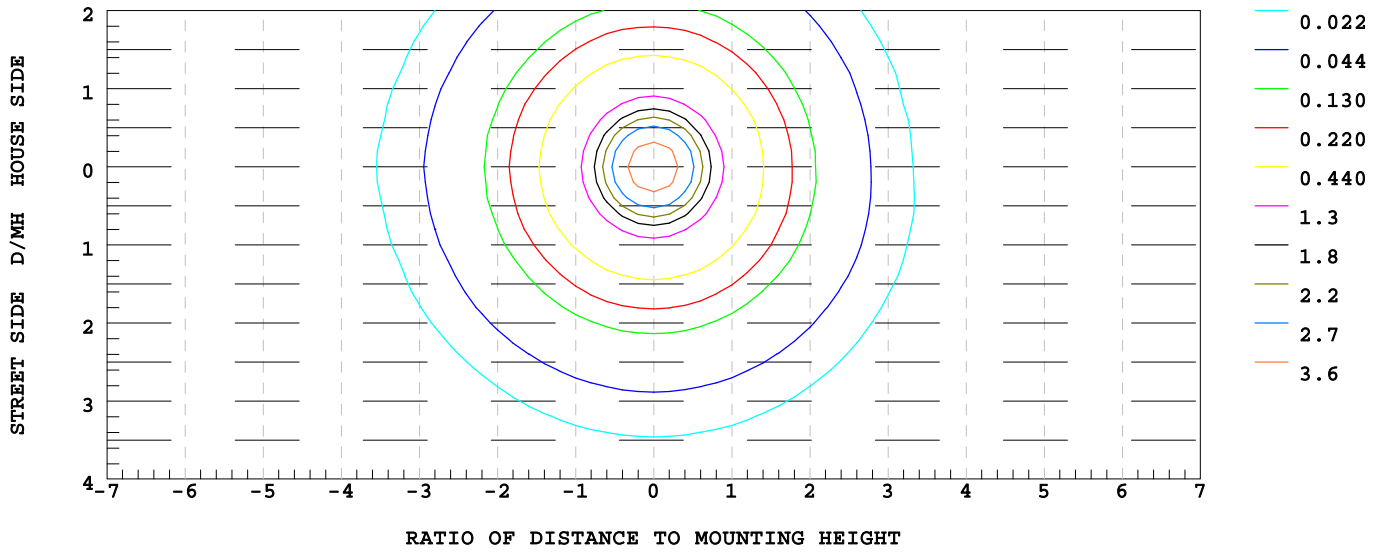
LUMINAIRE PHOTOMETRIC TEST REPORT

ISOLUX DIAGRAM

Report number:

MANUFACTURER: SGSLIGHT LIMITED	Address:	
NAME: LED PANEL	TYPE:	WEIGHT:
SPECIFICATION:TLP-F-3030W-18	DIMENSION: 296X296X11MM	SERIAL No.:

ILLUMINANCE AT MH=10 m, Enadir = 4.44 lx



Test System:HOPPO HPG1900  
 Temperature:25.3DEG  
 Operators:TOM CHEN  
 Test Date:2015-04-26

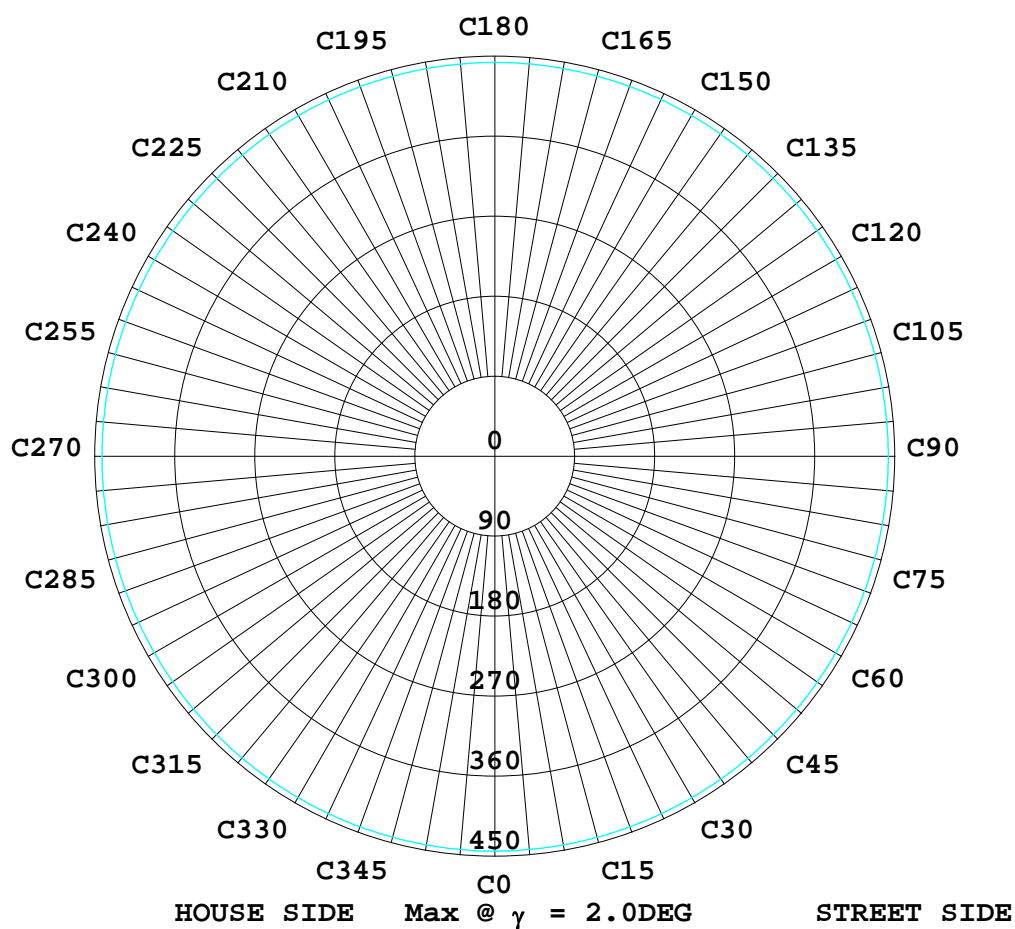
Test Set: 7.0deg/s B-Beta (TYPE B)  
 Humidity:65.0%  
 Test Distance:7.000 m  
 Remarks:

# LUMINAIRE PHOTOMETRIC TEST REPORT

## ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: SGSLIGHT LIMITED	Address:	
NAME: LED PANEL	TYPE:	WEIGHT:
SPECIFICATION:TLP-F-3030W-18	DIMENSION: 296X296X11MM	SERIAL No.:



Test System:HOP00 HPG1900  
 Temperature:25.3DEG  
 Operators:TOM CHEN  
 Test Date:2015-04-26

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-3030W-18		DIMENSION: 296X296X11MM	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	444	444	444	444	444	444	444	444	444	444	444	444	444	444	444
5.0	444	443	443	443	442	442	442	442	442	442	442	441	441	441	441
10.0	439	438	438	438	437	437	437	437	437	437	437	438	438	438	438
15.0	431	430	430	429	429	429	429	430	430	430	429	429	429	428	428
20.0	419	418	418	418	418	418	419	418	417	417	417	417	417	417	417
25.0	404	403	402	402	403	403	402	402	402	402	403	402	402	401	400
30.0	386	384	384	384	384	383	383	384	385	384	383	382	382	382	382
35.0	364	362	361	362	362	362	363	362	361	361	361	361	360	360	359
40.0	339	337	337	337	337	338	337	336	336	336	335	335	334	334	334
45.0	311	309	309	309	311	310	308	309	308	308	307	308	307	306	305
50.0	281	279	279	279	279	278	278	277	277	278	277	276	275	275	275
55.0	249	246	246	249	245	245	244	246	244	243	242	243	242	242	241
60.0	214	211	212	211	210	210	210	208	208	207	207	207	207	207	206
65.0	178	174	177	174	174	174	172	171	171	171	171	171	170	170	169
70.0	141	137	137	136	136	133	133	134	134	133	132	132	131	131	131
75.0	104	103	99.4	98.8	96.4	97.3	96.5	95.9	94.7	94.0	93.8	93.9	94.0	94.0	94.0
80.0	68.7	64.6	63.6	62.4	61.6	59.5	58.1	59.3	59.1	59.0	58.8	58.5	58.3	58.0	57.8
85.0	36.6	31.5	29.7	27.4	27.3	27.2	27.0	27.5	27.7	28.0	28.3	28.5	28.8	28.9	29.1
90.0	3.52	1.52	1.52	1.52	1.52	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48
95.0	2.19	1.85	1.80	1.73	1.74	1.70	1.68	1.67	1.68	1.66	1.67	1.66	1.65	1.67	1.66
100.0	2.19	2.19	2.02	1.90	1.97	1.90	1.91	1.86	1.88	1.85	1.87	1.84	1.82	1.85	1.84
105.0	2.52	2.32	2.15	2.34	2.19	2.08	2.11	2.04	2.07	2.02	2.05	2.02	2.00	2.03	2.01
110.0	2.86	2.80	2.63	2.50	2.35	2.39	2.29	2.32	2.25	2.19	2.24	2.19	2.24	2.21	2.19
115.0	3.15	2.96	2.77	2.61	2.68	2.55	2.49	2.50	2.42	2.47	2.41	2.36	2.43	2.39	2.36
120.0	3.15	3.11	3.11	2.95	2.80	2.74	2.76	2.66	2.57	2.65	2.58	2.53	2.61	2.57	2.54
125.0	3.49	3.33	3.18	3.04	3.15	3.01	2.90	2.80	2.89	2.81	2.74	2.83	2.78	2.74	2.71
130.0	3.82	3.67	3.52	3.38	3.25	3.13	3.02	3.14	3.04	2.96	2.90	3.01	2.96	2.91	2.88
135.0	3.82	3.69	3.57	3.44	3.33	3.48	3.37	3.27	3.18	3.11	3.24	3.18	3.12	3.08	3.05
140.0	4.16	4.03	3.91	3.79	3.68	3.58	3.48	3.39	3.31	3.46	3.40	3.34	3.29	3.25	3.21
145.0	4.16	4.05	3.95	3.85	3.76	3.67	3.58	3.75	3.68	3.61	3.55	3.49	3.45	3.41	3.52
150.0	4.16	4.07	3.99	3.94	4.11	4.03	3.95	3.88	3.81	3.75	3.69	3.64	3.60	3.57	3.57
155.0	4.49	4.41	4.34	4.26	4.19	4.12	4.05	3.99	3.93	3.88	3.83	3.79	3.76	3.80	3.95
160.0	4.49	4.43	4.37	4.31	4.25	4.20	4.15	4.10	4.05	4.01	3.97	4.12	3.95	4.15	4.12
165.0	4.49	4.45	4.40	4.36	4.32	4.27	4.24	4.20	4.33	4.29	4.23	4.37	4.34	4.32	4.30
170.0	4.49	4.47	4.48	4.52	4.57	4.65	4.64	4.61	4.59	4.56	4.54	4.52	4.50	4.49	4.48
175.0	4.83	4.81	4.79	4.78	4.76	4.75	4.73	4.72	4.71	4.69	4.68	4.67	4.66	4.66	4.73
180.0	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:TOM CHEN  
 Test Date:2015-04-26

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-3030W-18</b>	<b>DIMENSION: 296X296X11MM</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	444	444	444	444	444	444	444	444	444	444	444	444	444	444	444
5.0	441	441	441	441	441	441	441	440	440	440	440	440	440	440	440
10.0	438	438	438	438	438	437	437	436	436	436	435	435	434	434	433
15.0	428	427	427	427	427	426	426	426	425	425	425	425	426	426	425
20.0	417	416	416	416	416	415	414	414	413	412	411	411	411	411	411
25.0	400	399	399	399	398	398	397	397	397	396	396	396	394	394	393
30.0	382	382	382	382	381	380	380	379	378	377	376	375	375	374	373
35.0	359	358	358	357	357	356	356	355	355	355	356	353	352	351	350
40.0	334	334	333	333	332	331	331	330	329	329	328	327	328	327	325
45.0	305	304	304	304	303	302	302	301	301	300	299	298	298	297	298
50.0	275	274	274	274	274	273	272	271	271	269	268	268	267	266	266
55.0	241	241	240	240	239	239	239	238	238	238	237	236	234	233	232
60.0	206	206	206	206	205	205	204	204	202	202	202	201	201	200	198
65.0	169	169	168	168	168	168	167	167	166	166	166	165	164	164	164
70.0	131	131	131	131	131	131	130	130	130	130	129	129	128	127	127
75.0	94.0	94.1	94.0	94.0	93.8	93.8	93.7	93.8	93.7	93.8	93.5	93.5	93.4	92.7	92.0
80.0	57.6	57.5	57.3	57.2	57.1	57.1	57.3	57.5	57.8	58.2	58.5	58.9	59.0	59.2	59.1
85.0	29.2	29.3	29.4	29.3	29.2	29.1	29.1	28.9	28.8	28.8	28.8	28.7	28.6	28.4	28.0
90.0	1.48	1.48	1.48	1.44	1.44	1.48	1.48	1.48	1.48	1.56	2.00	2.37	2.82	3.26	3.60
95.0	1.65	1.65	1.67	1.65	1.65	1.67	1.66	1.66	1.67	1.70	1.88	1.99	2.08	2.11	2.02
100.0	1.83	1.83	1.85	1.85	1.85	1.86	1.84	1.84	1.85	1.86	1.79	1.65	1.40	1.03	0.50
105.0	2.00	2.01	2.04	2.06	2.06	2.05	2.03	2.01	2.03	2.03	1.78	1.41	0.93	0.17	0.00
110.0	2.17	2.21	2.23	2.26	2.25	2.23	2.24	2.19	2.21	2.24	1.88	1.28	0.59	0.00	0.00
115.0	2.34	2.42	2.41	2.47	2.44	2.42	2.40	2.36	2.39	2.43	2.18	1.32	0.44	0.00	0.00
120.0	2.51	2.61	2.60	2.67	2.62	2.61	2.52	2.54	2.63	2.61	2.49	1.65	0.68	0.00	0.00
125.0	2.68	2.80	2.79	2.87	2.79	2.80	2.78	2.81	2.78	2.78	2.83	2.26	1.07	0.05	0.00
130.0	2.94	2.98	2.97	3.08	2.97	2.98	3.00	2.91	2.91	2.96	3.01	2.86	1.91	0.74	0.00
135.0	3.11	3.17	3.16	3.28	3.16	3.17	3.19	3.22	3.08	3.25	3.18	3.24	2.98	1.92	0.74
140.0	3.27	3.36	3.34	3.49	3.34	3.36	3.38	3.27	3.39	3.29	3.41	3.40	3.46	3.26	2.56
145.0	3.56	3.54	3.53	3.69	3.55	3.59	3.56	3.59	3.62	3.52	3.49	3.63	3.61	3.68	3.75
150.0	3.74	3.72	3.71	3.90	3.81	3.91	3.74	3.77	3.75	3.73	3.72	3.69	3.93	3.81	3.88
155.0	3.92	3.91	3.90	4.10	4.08	3.95	3.92	3.95	3.97	3.96	4.04	4.03	3.88	3.93	4.06
160.0	4.11	4.09	4.15	4.31	4.24	4.09	4.31	4.12	4.15	4.18	4.21	4.05	4.29	4.10	4.31
165.0	4.29	4.28	4.44	4.51	4.34	4.38	4.29	4.53	4.32	4.34	4.37	4.39	4.43	4.46	4.43
170.0	4.47	4.53	4.72	4.71	4.49	4.65	4.58	4.48	4.54	4.76	4.60	4.54	4.56	4.59	4.61
175.0	4.84	4.92	4.92	4.92	4.80	4.68	4.73	4.85	4.91	4.81	4.71	4.68	4.69	4.71	4.75
180.0	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:TOM CHEN  
 Test Date:2015-04-26

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-3030W-18</b>	<b>DIMENSION: 296X296X11MM</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	444	444	444	444	444	444	444	444	444	444	444	444	444	444	444
5.0	440	440	440	440	440	441	441	441	440	440	440	440	439	439	439
10.0	433	433	433	433	433	433	434	433	432	432	432	432	432	432	432
15.0	424	423	423	422	423	423	424	423	422	421	421	421	422	422	423
20.0	411	410	409	409	408	408	409	408	407	407	407	408	409	408	407
25.0	393	393	393	392	391	391	392	390	390	390	391	390	389	389	389
30.0	372	372	373	372	371	370	371	370	369	370	370	369	368	369	369
35.0	350	349	348	349	347	346	347	345	345	346	345	344	345	345	345
40.0	323	323	322	322	322	320	320	319	319	319	317	318	317	318	319
45.0	296	294	293	292	293	290	290	289	290	288	288	288	288	290	289
50.0	266	263	262	261	261	259	259	258	258	256	256	256	258	257	256
55.0	231	232	229	227	226	225	224	223	222	221	222	223	222	222	223
60.0	197	195	195	192	191	191	189	188	186	186	187	186	186	187	188
65.0	162	159	158	159	154	155	151	152	148	151	149	149	151	152	151
70.0	126	126	123	121	119	117	114	114	112	112	113	114	114	114	115
75.0	90.9	90.1	89.5	86.7	85.2	81.6	78.4	78.3	79.7	77.1	78.1	78.6	78.6	79.6	80.4
80.0	59.2	57.8	55.8	55.2	52.2	49.2	45.1	44.1	43.6	44.1	44.9	46.2	46.9	47.0	48.2
85.0	27.2	26.9	27.1	27.5	25.3	19.1	8.65	11.0	15.8	18.0	18.1	18.0	18.0	19.3	20.5
90.0	3.15	2.93	3.04	3.12	2.67	1.93	1.85	1.63	1.63	1.59	1.59	1.63	1.63	1.67	1.70
95.0	1.78	1.54	1.19	0.50	0.00	0.14	1.30	1.46	1.59	1.65	1.64	1.67	1.72	1.76	1.76
100.0	0.28	0.24	0.00	0.00	0.00	0.00	1.30	1.59	1.59	1.72	1.66	1.78	1.81	1.86	1.82
105.0	0.00	0.00	0.00	0.00	0.00	0.00	1.59	1.80	1.80	1.63	1.77	1.87	1.88	1.95	1.97
110.0	0.00	0.00	0.00	0.00	0.00	0.00	1.93	1.73	1.69	1.83	1.98	1.97	2.07	1.97	2.04
115.0	0.00	0.00	0.00	0.00	0.00	0.00	1.96	1.92	2.10	2.08	2.07	2.16	2.15	2.15	2.11
120.0	0.00	0.00	0.00	0.00	0.00	0.00	2.30	2.25	2.21	2.16	2.33	2.27	2.14	2.21	2.29
125.0	0.00	0.00	0.00	0.00	0.00	0.00	2.67	2.59	2.52	2.44	2.25	2.37	2.31	2.42	2.37
130.0	0.00	0.00	0.00	0.00	0.00	0.00	2.37	2.33	2.29	2.58	2.47	2.42	2.55	2.49	2.46
135.0	0.00	0.00	0.00	0.00	0.00	0.00	2.71	2.65	2.60	2.77	2.72	2.66	2.61	2.70	2.73
140.0	1.46	0.41	0.00	0.00	0.00	0.00	3.00	2.94	2.88	2.82	2.77	2.81	2.92	2.86	2.81
145.0	3.44	3.00	2.10	1.48	0.96	0.53	3.34	3.27	3.21	3.15	3.09	3.03	2.98	2.93	2.89
150.0	3.95	4.03	4.11	3.97	3.89	3.86	3.34	3.29	3.23	3.18	3.13	3.08	3.04	3.00	2.96
155.0	4.20	4.12	4.19	4.26	4.34	4.41	3.34	3.30	3.25	3.21	3.17	3.13	3.10	3.06	3.30
160.0	4.15	4.20	4.25	4.31	4.37	4.43	3.34	3.33	3.37	3.46	3.52	3.48	3.44	3.41	3.38
165.0	4.25	4.45	4.61	4.53	4.48	4.47	3.67	3.64	3.61	3.59	3.56	3.53	3.50	3.48	3.46
170.0	4.64	4.67	4.70	4.73	4.76	4.79	3.67	3.65	3.63	3.62	3.60	3.58	3.56	3.54	3.53
175.0	4.83	4.90	4.96	5.02	5.06	5.10	3.67	3.66	3.65	3.64	3.64	3.63	3.62	3.61	3.60
180.0	5.12	5.12	5.12	5.12	5.12	5.12	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:TOM CHEN  
 Test Date:2015-04-26

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-3030W-18</b>		<b>DIMENSION: 296X296X11MM</b>	<b>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	444	444	444	444	444	444	444	444	444	444	444	444	444	444	444
5.0	439	439	439	439	439	439	439	439	439	439	439	440	440	440	440
10.0	432	433	433	433	434	434	434	435	435	435	435	435	435	436	436
15.0	423	422	422	422	422	422	423	423	423	423	424	424	424	425	425
20.0	407	407	407	408	408	409	410	411	411	412	412	412	413	413	413
25.0	390	391	391	391	391	391	391	392	392	393	393	394	395	395	396
30.0	369	369	369	370	370	371	372	373	373	374	375	375	375	376	376
35.0	345	346	347	347	347	347	348	348	349	349	350	351	352	352	353
40.0	320	319	319	319	320	321	322	323	324	325	325	326	327	327	328
45.0	289	289	290	291	291	292	292	293	294	294	295	296	297	298	299
50.0	258	258	258	259	260	261	262	262	263	264	265	265	266	266	267
55.0	223	224	226	226	226	227	227	228	229	230	230	231	232	233	234
60.0	189	189	189	190	190	191	192	193	194	195	196	196	197	198	199
65.0	152	152	153	154	154	155	155	156	157	157	158	159	160	161	162
70.0	115	116	117	117	118	118	119	119	120	120	121	121	122	123	124
75.0	81.0	81.3	81.6	82.3	82.6	83.0	83.4	83.9	84.3	84.8	85.3	85.8	86.3	86.9	87.3
80.0	48.1	48.4	48.3	48.4	48.4	48.4	48.5	48.7	49.0	49.4	49.9	50.4	51.0	51.7	52.2
85.0	21.4	22.2	22.8	23.4	23.9	24.3	24.6	25.0	25.3	25.5	25.7	25.9	25.9	26.0	25.9
90.0	1.70	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67
95.0	1.78	1.76	1.78	1.77	1.77	1.77	1.78	1.78	1.78	1.78	1.78	1.78	1.76	1.77	1.77
100.0	1.86	1.86	1.89	1.88	1.87	1.88	1.90	1.89	1.89	1.89	1.89	1.89	1.87	1.86	1.87
105.0	1.97	1.95	2.00	1.99	1.97	2.00	2.01	2.01	2.00	2.00	2.00	2.01	1.99	1.96	1.97
110.0	2.07	2.04	2.11	2.09	2.07	2.14	2.13	2.12	2.11	2.11	2.11	2.12	2.12	2.06	2.07
115.0	2.16	2.18	2.22	2.19	2.17	2.26	2.24	2.23	2.23	2.22	2.23	2.23	2.24	2.16	2.17
120.0	2.25	2.35	2.32	2.29	2.27	2.37	2.36	2.34	2.34	2.34	2.34	2.34	2.36	2.25	2.27
125.0	2.43	2.46	2.42	2.39	2.37	2.49	2.47	2.46	2.45	2.45	2.45	2.46	2.47	2.35	2.37
130.0	2.59	2.55	2.52	2.49	2.62	2.60	2.58	2.57	2.56	2.56	2.56	2.57	2.58	2.44	2.46
135.0	2.68	2.64	2.61	2.58	2.73	2.71	2.69	2.68	2.67	2.67	2.67	2.68	2.69	2.71	2.56
140.0	2.77	2.73	2.70	2.87	2.84	2.82	2.80	2.79	2.78	2.78	2.78	2.79	2.80	2.82	2.65
145.0	2.85	2.82	2.96	2.98	2.95	2.93	2.91	2.90	2.90	2.89	2.90	2.90	2.91	2.93	2.95
150.0	2.93	3.14	3.11	3.08	3.06	3.04	3.02	3.01	3.01	3.00	3.01	3.01	3.02	3.04	3.06
155.0	3.27	3.24	3.21	3.18	3.16	3.15	3.13	3.12	3.12	3.12	3.12	3.12	3.13	3.15	3.16
160.0	3.35	3.33	3.30	3.28	3.27	3.25	3.24	3.23	3.23	3.23	3.23	3.23	3.24	3.25	3.27
165.0	3.43	3.41	3.40	3.38	3.37	3.36	3.35	3.34	3.34	3.34	3.34	3.34	3.35	3.36	3.37
170.0	3.52	3.50	3.49	3.48	3.47	3.46	3.46	3.45	3.45	3.45	3.45	3.45	3.46	3.46	3.47
175.0	3.59	3.59	3.58	3.58	3.57	3.57	3.57	3.56	3.56	3.56	3.56	3.56	3.57	3.57	3.57
180.0	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:TOM CHEN  
 Test Date:2015-04-26

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-3030W-18</b>	<b>DIMENSION: 296X296X11MM</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	444	444	444	444	444	444	444	444	444	444	444	444
5.0	440	440	441	441	441	441	442	442	442	442	443	443
10.0	436	436	436	436	436	436	436	436	437	437	438	438
15.0	426	426	427	427	428	428	428	428	428	428	429	430
20.0	413	413	414	414	415	416	417	417	416	417	417	418
25.0	397	398	399	399	399	400	400	401	401	401	401	402
30.0	377	377	378	380	382	381	381	381	383	383	383	384
35.0	354	356	356	356	357	359	360	360	360	361	360	361
40.0	328	329	330	331	332	332	334	336	335	335	336	337
45.0	301	301	302	302	303	304	305	307	309	307	308	308
50.0	268	269	271	273	273	273	274	275	277	278	278	278
55.0	235	236	236	237	239	241	241	242	243	247	245	245
60.0	199	200	201	202	203	204	207	207	207	209	211	210
65.0	163	164	164	165	166	167	168	171	172	172	176	173
70.0	124	125	126	128	129	130	130	131	134	135	136	137
75.0	87.8	88.2	88.7	89.4	90.7	92.4	93.5	94.9	94.6	97.7	98.8	103
80.0	52.9	53.7	54.5	55.2	55.9	55.9	55.9	57.7	60.1	61.9	63.4	64.5
85.0	25.9	25.8	25.8	25.7	25.6	25.6	25.4	26.0	26.5	26.9	29.5	31.8
90.0	1.67	1.67	1.70	1.70	1.74	1.70	1.70	1.67	1.67	1.67	1.67	1.67
95.0	1.76	1.76	1.78	1.76	1.77	1.75	1.70	1.66	1.61	1.53	1.37	1.16
100.0	1.86	1.85	1.85	1.81	1.82	1.80	1.74	1.62	1.55	1.41	1.18	0.96
105.0	1.99	1.94	1.92	1.86	1.84	1.83	1.79	1.70	1.65	1.50	1.24	1.13
110.0	2.09	2.02	1.99	2.01	1.92	1.89	1.86	1.80	1.70	1.64	1.37	1.38
115.0	2.19	2.11	2.08	2.08	1.97	1.89	1.94	1.85	1.83	1.70	1.45	1.55
120.0	2.29	2.22	2.22	2.14	2.17	2.04	2.01	1.99	1.94	1.90	1.83	1.70
125.0	2.39	2.42	2.30	2.28	2.23	2.24	2.11	1.97	2.05	2.00	2.02	2.02
130.0	2.49	2.52	2.46	2.41	2.30	2.32	2.36	2.17	2.21	2.08	2.28	2.13
135.0	2.58	2.61	2.64	2.48	2.52	2.49	2.41	2.45	2.50	2.27	2.30	2.34
140.0	2.67	2.70	2.73	2.77	2.70	2.62	2.67	2.57	2.53	2.57	2.62	2.66
145.0	2.76	2.78	2.82	2.85	2.89	2.93	2.77	2.76	2.80	2.85	2.90	2.95
150.0	2.97	2.87	2.90	2.93	2.96	3.00	3.04	3.08	3.13	3.18	3.08	3.00
155.0	3.18	3.20	2.97	3.00	3.03	3.06	3.10	3.13	3.17	3.21	3.25	3.30
160.0	3.28	3.30	3.33	3.35	3.09	3.12	3.15	3.18	3.21	3.24	3.27	3.31
165.0	3.38	3.40	3.41	3.43	3.46	3.48	3.50	3.53	3.53	3.43	3.37	3.33
170.0	3.48	3.49	3.50	3.52	3.53	3.54	3.56	3.58	3.60	3.62	3.63	3.65
175.0	3.58	3.58	3.59	3.59	3.60	3.61	3.62	3.63	3.64	3.64	3.65	3.66
180.0	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:TOM CHEN  
 Test Date:2015-04-26

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