

LUMINAIRE PHOTOMETRIC TEST REPORT

LAMP PHOTOMETRIC REPORT

MODEL: TLP-F-3060W-40

POWER: 40W

VOLTAGE: 230V

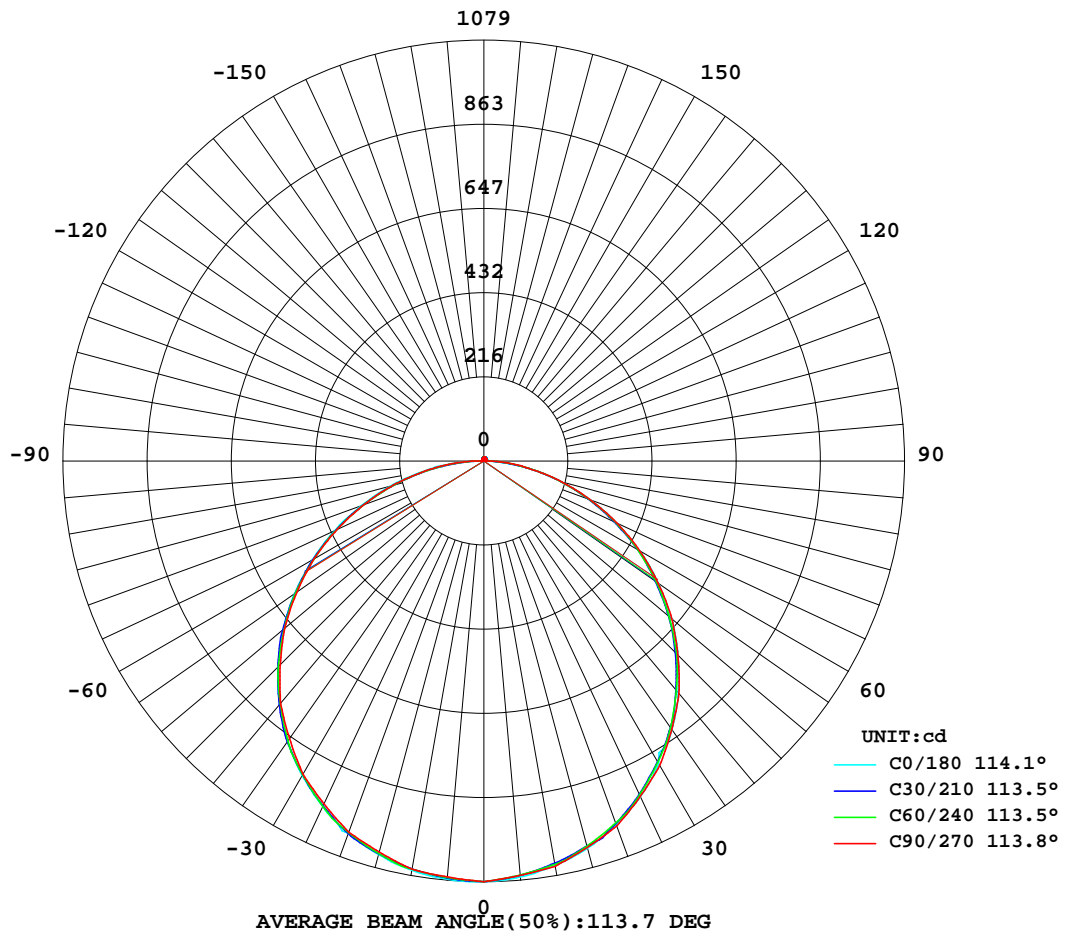
WORKING VOLTAGE: 219.5V

MANUFACTURER: SGSLIGHT LIMITED

TOTAL FLUX: 3177.8 lm

Efficiency: 78.892 lm/W

Test: U: 229.0V I: 0.186A P: 40.27W PF: 0.943



Test System:HOPOO HPG1900
Temperature:25.3DEG
Operators:TOM CHEN
Test Date:2015-04-22

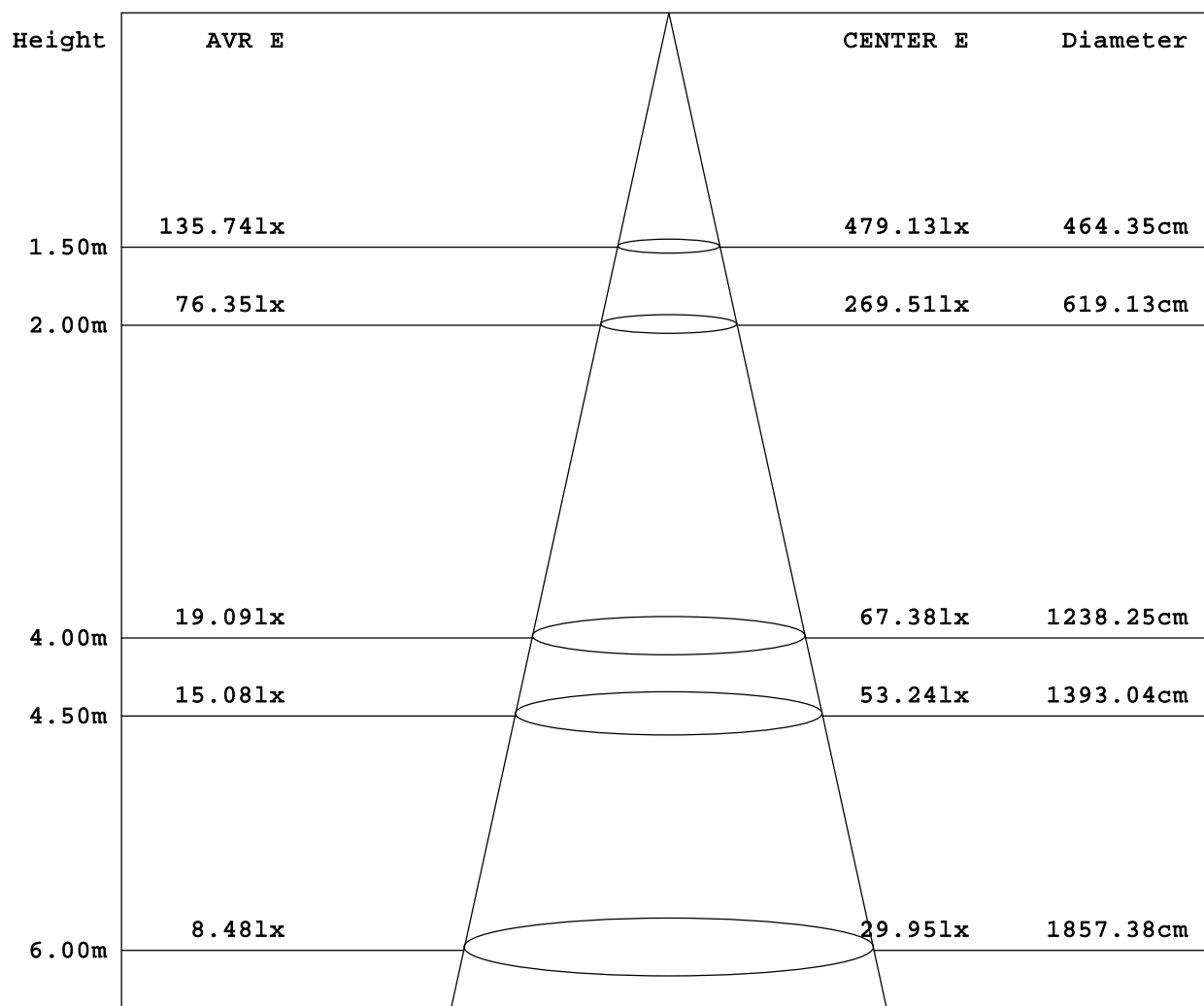
Test Set: 7.0deg/s B-Beta (TYPE B)
Humidity:65.0%
Test Distance:7.000 m
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER: SGSLIGHT LIMITED	Address:	
NAME: LED PANEL	TYPE:	WEIGHT:
SPECIFICATION:TLP-F-3060W-40	DIMENSION: 296X596X11MM	SERIAL No.:



Angle:114.3deg

Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:TOM CHEN
 Test Date:2015-04-22

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-3060W-40		DIMENSION: 296X596X11MM	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	zone	total
5.0	1076	1072	1070	1068	1070	1065	1066	1070	0- 5	25.65	25.65
10.0	1065	1062	1063	1054	1053	1048	1055	1057	5- 10	76.01	101.6
15.0	1044	1044	1038	1032	1028	1024	1025	1036	10- 15	123.9	225.5
20.0	1016	1013	1012	997.2	991.6	987.3	996.0	1002	15- 20	167.6	393.1
25.0	977.2	977.4	969.8	959.0	949.4	944.2	948.8	963.4	20- 25	205.8	598.9
30.0	931.4	931.3	927.2	909.9	896.5	891.6	901.7	915.0	25- 30	236.8	835.8
35.0	877.1	876.0	868.9	853.5	840.8	830.9	839.8	857.9	30- 35	260.2	1096
40.0	814.8	816.9	810.6	793.9	774.7	767.5	777.9	797.1	35- 40	274.9	1371
45.0	747.1	745.4	738.5	723.3	704.1	694.3	703.6	723.8	40- 45	280.5	1652
50.0	670.8	672.2	666.4	652.6	628.7	621.2	629.2	649.2	45- 50	276.6	1928
55.0	592.6	589.1	584.7	571.3	546.3	537.3	545.7	566.1	50- 55	263.8	2192
60.0	508.0	506.1	503.1	490.5	462.8	454.4	462.1	483.3	55- 60	242.4	2435
65.0	421.6	416.0	414.5	406.2	375.0	369.7	376.0	392.5	60- 65	213.7	2648
70.0	332.8	326.4	326.0	321.9	290.5	286.2	289.8	304.5	65- 70	178.6	2827
75.0	247.5	236.9	240.8	237.3	204.6	203.3	206.8	219.3	70- 75	139.4	2966
80.0	161.7	152.3	155.7	157.4	125.3	125.5	123.8	134.8	75- 80	97.98	3064
85.0	82.57	74.88	82.31	81.33	47.52	58.20	63.26	61.45	80- 85	56.81	3121
90.0	6.241	3.316	8.903	7.550	5.499	2.880	2.662	2.793	85- 90	19.36	3141
95.0	2.487	3.137	6.022	4.284	8.554	3.164	3.055	3.159	90- 95	2.277	3143
100.0	2.880	3.297	3.142	3.236	7.550	3.592	3.447	3.526	95-100	1.950	3145
105.0	3.927	3.712	3.622	3.768	7.201	4.111	3.927	3.923	100-105	2.020	3147
110.0	4.320	4.183	4.102	4.305	6.983	4.622	4.408	4.294	105-110	2.221	3149
115.0	5.019	4.680	4.582	4.814	7.070	5.068	4.888	4.746	110-115	2.400	3151
120.0	5.760	5.042	5.062	5.391	7.550	5.613	5.368	5.230	115-120	2.545	3154
125.0	6.153	5.523	5.542	5.846	8.030	6.195	5.848	5.633	120-125	2.659	3157
130.0	7.201	6.057	6.022	6.448	8.466	6.667	6.328	6.145	125-130	2.724	3159
135.0	7.594	6.613	6.502	6.916	9.208	7.265	6.808	6.679	130-135	2.745	3162
140.0	8.641	7.188	6.983	7.316	9.252	7.499	7.288	7.069	135-140	2.704	3165
145.0	8.685	7.565	7.463	7.915	9.950	8.087	7.768	7.636	140-145	2.604	3167
150.0	9.383	7.934	7.943	8.351	10.34	8.523	8.248	8.448	145-150	2.445	3170
155.0	9.732	8.532	8.423	8.896	10.69	9.107	8.728	8.925	150-155	2.219	3172
160.0	9.776	9.151	8.903	9.109	10.73	9.457	9.208	9.457	155-160	1.936	3174
165.0	10.47	9.491	9.383	9.749	10.78	10.09	9.688	9.796	160-165	1.596	3176
170.0	10.47	10.14	9.863	10.09	11.12	10.44	10.16	10.44	165-170	1.200	3177
175.0	10.82	10.48	10.34	10.48	11.12	10.94	10.64	10.78	170-175	0.753	3178
180.0	10.82	10.82	10.82	10.82	11.12	11.12	11.12	11.12	175-180	0.260	3178
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:TOM CHEN
 Test Date:2015-04-22

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

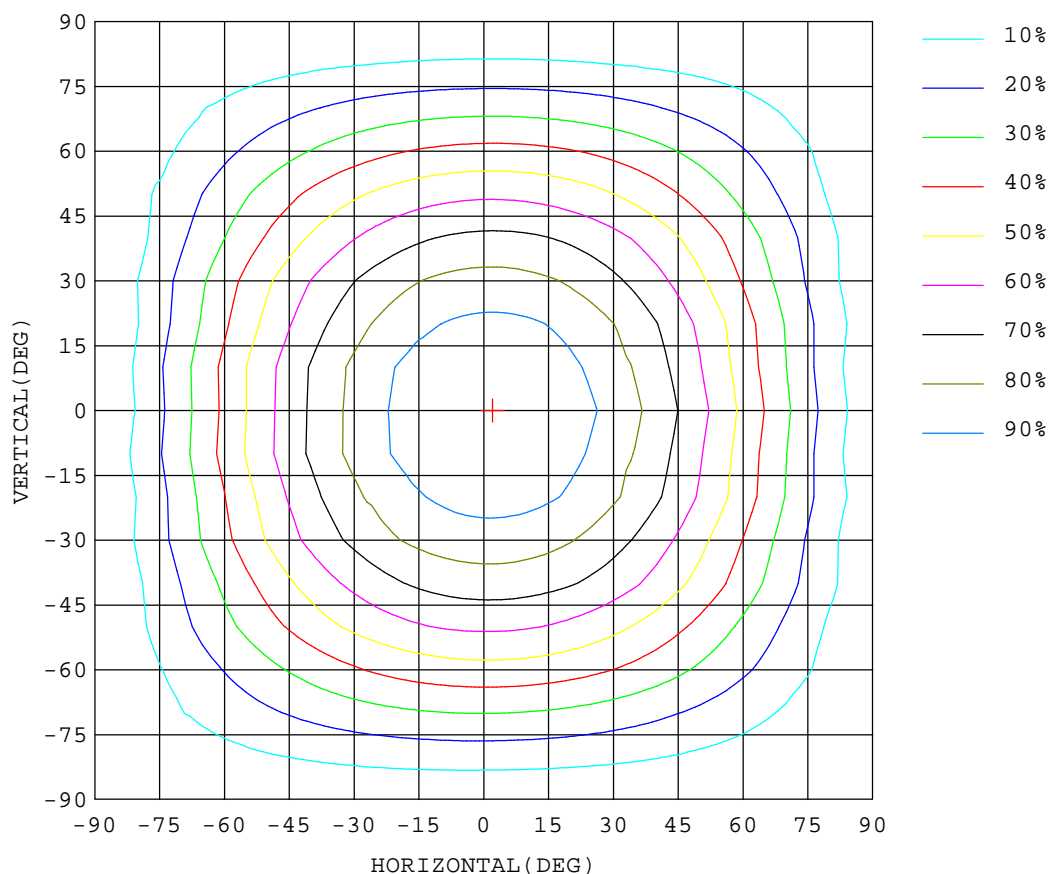
LUMINAIRE PHOTOMETRIC TEST REPORT

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: SGSLIGHT LIMITED	Address:	
NAME: LED PANEL	TYPE:	WEIGHT:
SPECIFICATION:TLP-F-3060W-40	DIMENSION: 296X596X11MM	SERIAL No.:

UNIT: cd



Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:TOM CHEN
 Test Date:2015-04-22

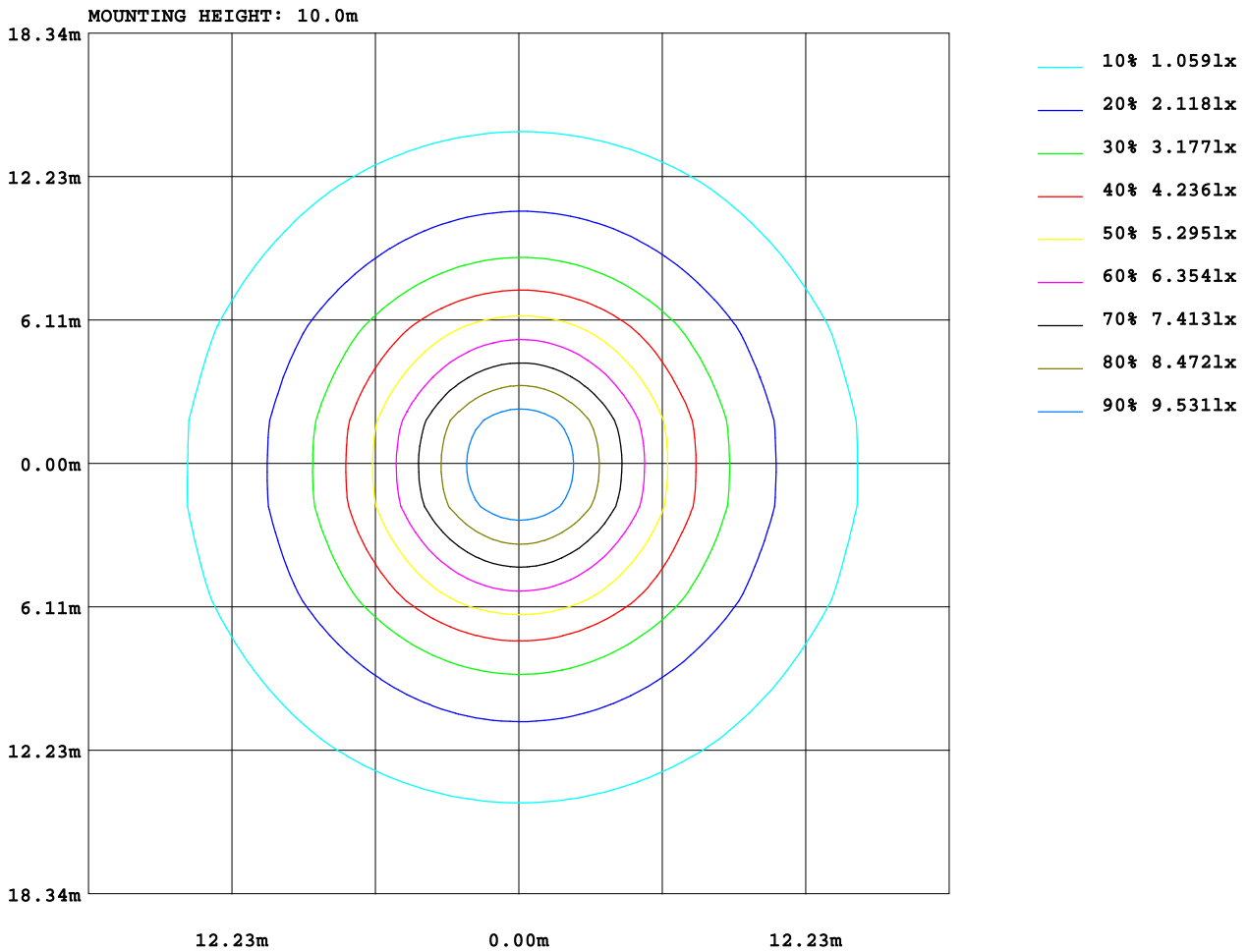
Test Set: 7.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
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 Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

ISOLUX DIAGRAM

Report number:

MANUFACTURER: SGSLIGHT LIMITED	Address:	
NAME: LED PANEL	TYPE:	WEIGHT:
SPECIFICATION:TLP-F-3060W-40	DIMENSION: 296X596X11MM	SERIAL No.:



Test System:HOPPO HPG1900
 Temperature:25.3DEG
 Operators:TOM CHEN
 Test Date:2015-04-22

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-3060W-40										DIMENSION: 296X596X11MM					SERIAL No.:				

VERTICAL (DEG)	AREA FLUX DIAGRAM																		UNIT:lm	Φ t	Φ a
	0.01	0.02	0.03	0.05	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.05	0.05	0.03	0.02	0.01	0.86	0.86
90	0.02	0.23	0.77	1.58	2.55	3.60	4.49	5.16	5.54	5.57	5.25	4.63	3.77	2.75	1.79	0.95	0.35	0.04	49.1	49.1	
80	0.05	0.57	1.72	3.33	5.24	7.21	9.03	10.4	11.2	11.2	10.6	9.31	7.55	5.59	3.64	1.96	0.72	0.10	99.5	99.5	
70	0.07	0.80	2.38	4.70	7.51	10.4	13.1	15.2	16.4	16.5	15.6	13.7	11.1	8.21	5.33	2.86	1.09	0.16	146	146	
60	0.12	1.14	3.23	6.30	9.99	13.8	17.3	19.9	21.4	21.5	20.2	17.7	14.3	10.5	6.76	3.57	1.33	0.18	190	190	
50	0.11	1.21	3.67	7.31	11.7	16.3	20.4	23.7	25.5	25.7	24.3	21.4	17.4	12.8	8.35	4.46	1.68	0.27	227	227	
40	0.18	1.56	4.43	8.64	13.6	18.8	23.5	27.0	29.0	29.1	27.3	23.9	19.3	14.2	9.14	4.81	1.77	0.25	257	257	
30	0.14	1.50	4.52	8.99	14.3	19.9	25.0	29.0	31.2	31.5	29.7	26.2	21.3	15.7	10.2	5.48	2.06	0.33	278	278	
20	0.23	1.77	5.06	9.83	15.4	21.3	26.5	30.5	32.6	32.7	30.7	26.8	21.7	15.9	10.2	5.39	1.96	0.26	289	289	
10	0.16	1.59	4.75	9.43	15.0	20.8	26.1	30.2	32.6	32.9	31.1	27.4	22.3	16.5	10.7	5.73	2.14	0.33	290	290	
0	0.24	1.75	4.97	9.62	15.1	20.8	25.8	29.7	31.7	31.8	29.8	26.0	21.0	15.4	9.94	5.21	1.89	0.25	282	282	
-10	0.14	1.46	4.33	8.57	13.6	18.9	23.7	27.4	29.6	29.8	28.2	24.8	20.2	14.9	9.69	5.17	1.93	0.31	263	263	
-20	0.20	1.50	4.21	8.11	12.7	17.4	21.7	24.9	26.6	26.6	25.0	21.8	17.6	12.8	8.22	4.30	1.55	0.19	236	236	
-30	0.11	1.14	3.33	6.54	10.4	14.4	18.1	20.9	22.5	22.7	21.4	18.8	15.3	11.2	7.29	3.88	1.44	0.23	200	200	
-40	0.13	1.06	2.90	5.51	8.60	11.7	14.6	16.7	17.9	17.9	16.7	14.5	11.7	8.52	5.42	2.83	1.02	0.12	158	158	
-50	0.07	0.69	1.96	3.76	5.91	8.15	10.1	11.7	12.6	12.7	11.9	10.4	8.48	6.22	4.01	2.13	0.79	0.10	112	112	
-60	0.05	0.48	1.31	2.39	3.62	4.87	5.96	6.77	7.18	7.12	6.62	5.73	4.59	3.33	2.12	1.10	0.36	0.03	63.6	63.6	
-70	0.02	0.16	0.42	0.78	1.18	1.54	1.83	2.05	2.16	2.13	1.98	1.72	1.39	1.00	0.60	0.28	0.09	0.01	19.3	19.3	
-80	0.02	0.16	0.42	0.78	1.18	1.54	1.83	2.05	2.16	2.13	1.98	1.72	1.39	1.00	0.60	0.28	0.09	0.01	19.3	19.3	
-90	0.02	0.16	0.42	0.78	1.18	1.54	1.83	2.05	2.16	2.13	1.98	1.72	1.39	1.00	0.60	0.28	0.09	0.01	19.3	19.3	
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)	20	30	40	50	60	70	80	90				
Φ t	2.02	18.7	54.0	106	167	231	288	332	356	358	337	296	240	176	114	60.2	22.2	3.16	3178		
Φ a	2.02	18.7	54.0	106	167	231	288	332	356	358	337	296	240	176	114	60.2	22.2	3.16		3178	

Test System:HOPOO HPG1900
 Temperature:25.3DEG
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Test Set: 7.0deg/s B-Beta (TYPE B)
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 Remarks:

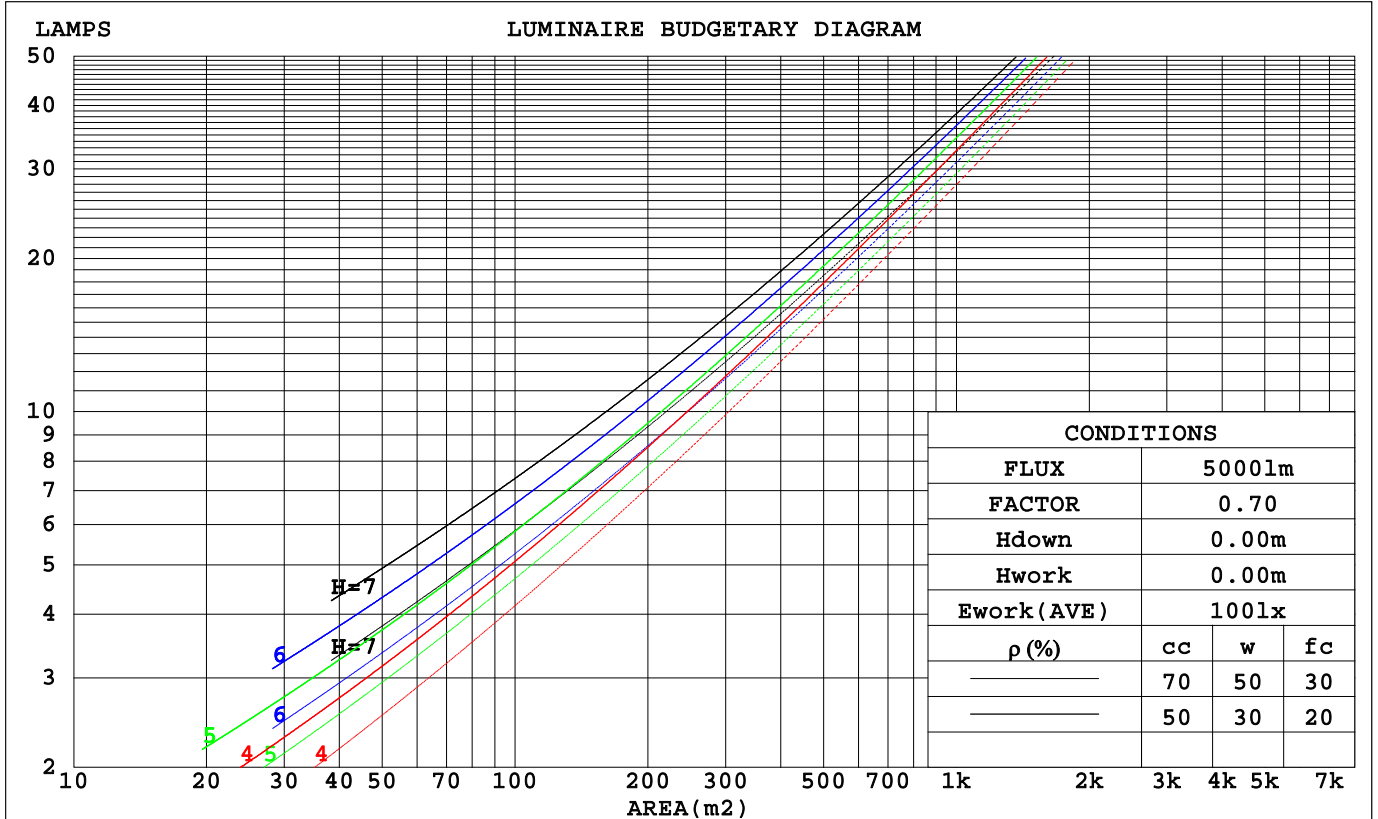
LUMINAIRE PHOTOMETRIC TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER: SGSLIGHT LIMITED				Address:							
NAME: LED PANEL				TYPE:				WEIGHT:			
SPECIFICATION:TLP-F-3060W-40				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	.89	.87	.88	.86	.84	.82														
2.0	.90	.83	.77	.88	.81	.76	.84	.78	.74	.80	.76	.72	.77	.73	.70	.68														
3.0	.79	.70	.64	.77	.69	.63	.74	.67	.62	.71	.65	.60	.68	.63	.59	.57														
4.0	.69	.61	.54	.68	.60	.53	.65	.58	.52	.63	.57	.52	.61	.55	.51	.48														
5.0	.62	.53	.46	.61	.52	.46	.59	.51	.45	.56	.50	.45	.54	.49	.44	.42														
6.0	.56	.47	.40	.55	.46	.40	.53	.45	.39	.51	.44	.39	.49	.43	.39	.36														
7.0	.51	.42	.35	.50	.41	.35	.48	.40	.35	.46	.40	.35	.45	.39	.34	.32														
8.0	.46	.37	.32	.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	.26	.37	.30	.25	.36	.30	.25	.35	.29	.25	.23														



Test System:HOPOO HPG1900
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 Operators:TOM CHEN
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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-3060W-40	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	.318	.181	.057	.311	.177	.056	.297	.170	.054	.284	.164	.053	.272	.158	.051	
2.0	.297	.163	.050	.290	.160	.049	.278	.155	.048	.266	.149	.047	.256	.145	.046	
3.0	.273	.146	.044	.268	.143	.043	.257	.139	.042	.247	.135	.041	.237	.131	.041	
4.0	.252	.131	.038	.246	.129	.038	.237	.126	.037	.228	.122	.037	.219	.119	.036	
5.0	.232	.118	.034	.228	.117	.034	.219	.114	.034	.211	.111	.033	.203	.109	.033	
6.0	.215	.108	.031	.211	.107	.031	.203	.104	.030	.196	.102	.030	.189	.100	.030	
7.0	.200	.099	.028	.196	.098	.028	.189	.096	.028	.183	.094	.027	.177	.092	.027	
8.0	.187	.091	.026	.183	.090	.026	.177	.088	.025	.171	.087	.025	.166	.085	.025	
9.0	.175	.085	.024	.172	.084	.023	.166	.082	.023	.161	.081	.023	.156	.079	.023	
10.0	.164	.079	.022	.162	.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	.190	.165	.143	.162	.142	.123	.111	.097	.085	.064	.056	.049	.020	.018	.016	
2.0	.182	.141	.106	.156	.121	.092	.107	.084	.064	.062	.049	.038	.020	.016	.012	
3.0	.174	.123	.083	.149	.106	.072	.103	.074	.050	.059	.043	.030	.019	.014	.010	
4.0	.167	.110	.067	.143	.095	.058	.098	.066	.041	.057	.039	.024	.018	.013	.008	
5.0	.159	.100	.056	.137	.086	.049	.094	.060	.034	.055	.035	.020	.018	.012	.007	
6.0	.152	.092	.048	.131	.079	.042	.090	.055	.030	.052	.033	.018	.017	.011	.006	
7.0	.145	.085	.042	.125	.073	.037	.086	.051	.026	.050	.030	.016	.016	.010	.005	
8.0	.139	.079	.038	.119	.068	.033	.083	.048	.023	.048	.028	.014	.016	.009	.005	
9.0	.132	.074	.034	.114	.064	.030	.079	.045	.021	.046	.027	.013	.015	.009	.004	
10.0	.127	.070	.032	.109	.060	.028	.076	.043	.020	.044	.025	.012	.014	.008	.004	

Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:TOM CHEN
 Test Date:2015-04-22

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-3060W-40					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	19.0	20.6	19.3	20.8	21.0	19.0	20.5	19.3	20.7	21.0
3H	20.7	22.1	21.0	22.3	22.6	20.6	22.0	20.9	22.3	22.5
4H	21.4	22.7	21.7	23.0	23.3	21.3	22.6	21.6	22.9	23.2
6H	22.0	23.2	22.3	23.5	23.8	21.8	23.1	22.2	23.4	23.7
8H	22.2	23.4	22.6	23.7	24.0	22.1	23.3	22.4	23.6	23.9
12H	22.4	23.5	22.7	23.8	24.2	22.2	23.4	22.6	23.7	24.0
4H 2H	19.7	21.0	20.0	21.3	21.6	19.6	21.0	20.0	21.2	21.5
3H	21.5	22.7	21.9	23.0	23.3	21.4	22.6	21.8	22.9	23.2
4H	22.3	23.4	22.7	23.8	24.1	22.3	23.3	22.7	23.7	24.0
6H	23.0	24.0	23.5	24.4	24.8	22.9	23.9	23.4	24.3	24.7
8H	23.3	24.2	23.7	24.6	25.0	23.2	24.1	23.7	24.5	24.9
12H	23.5	24.3	24.0	24.7	25.2	23.5	24.3	23.9	24.7	25.1
8H 4H	22.6	23.5	23.1	23.9	24.3	22.6	23.5	23.0	23.8	24.3
6H	23.5	24.2	23.9	24.7	25.1	23.4	24.2	23.9	24.6	25.0
8H	23.9	24.5	24.3	25.0	25.4	23.8	24.5	24.3	24.9	25.4
12H	24.1	24.7	24.6	25.2	25.7	24.1	24.7	24.6	25.2	25.7
12H 4H	22.7	23.5	23.1	23.9	24.3	22.6	23.4	23.0	23.8	24.2
6H	23.6	24.2	24.0	24.7	25.1	23.5	24.2	24.0	24.6	25.1
8H	24.0	24.5	24.5	25.0	25.5	23.9	24.5	24.4	25.0	25.5
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	+ 0.2 / - 0.3					+ 0.1 / - 0.3				

CIE Pub.117 Corrected 3178 lm Total Lamp Luminous Flux. (8log(F/F0) = 4.0)

Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:TOM CHEN
 Test Date:2015-04-22

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-3060W-40	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	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	60
2.00	94	85	79	92	84	78	88	82	76	68
2.50	98	90	84	96	89	83	92	86	81	72
3.00	101	94	89	99	93	88	95	90	85	76
4.00	106	100	95	103	98	93	99	94	91	81
5.00	108	103	99	105	101	97	101	97	94	84
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:2015-04-22

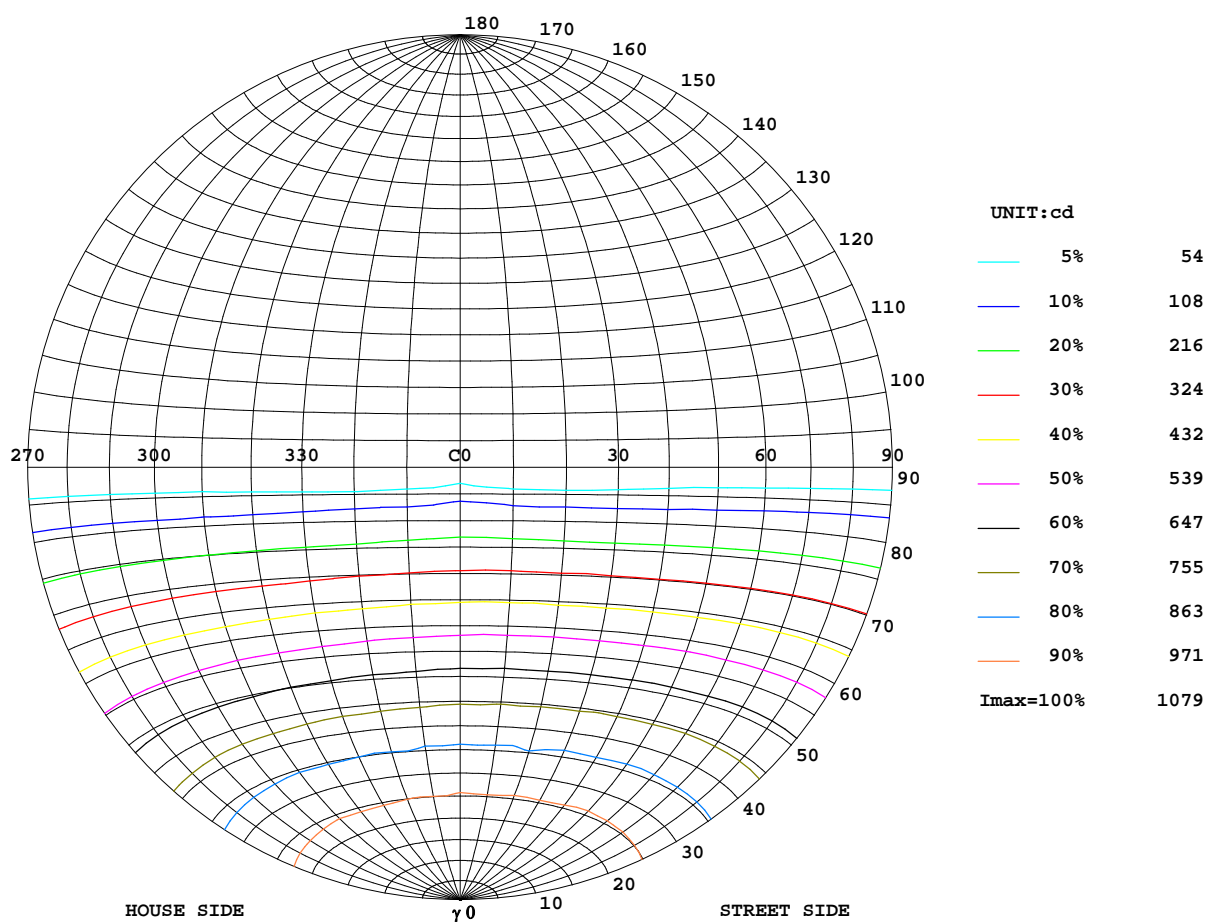
Test Set: 7.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: SGSLIGHT LIMITED	Address:	
NAME: LED PANEL	TYPE:	WEIGHT:
SPECIFICATION:TLP-F-3060W-40	DIMENSION: 296X596X11MM	SERIAL No.:



Test System:HOPPO HPG1900
 Temperature:25.3DEG
 Operators:TOM CHEN
 Test Date:2015-04-22

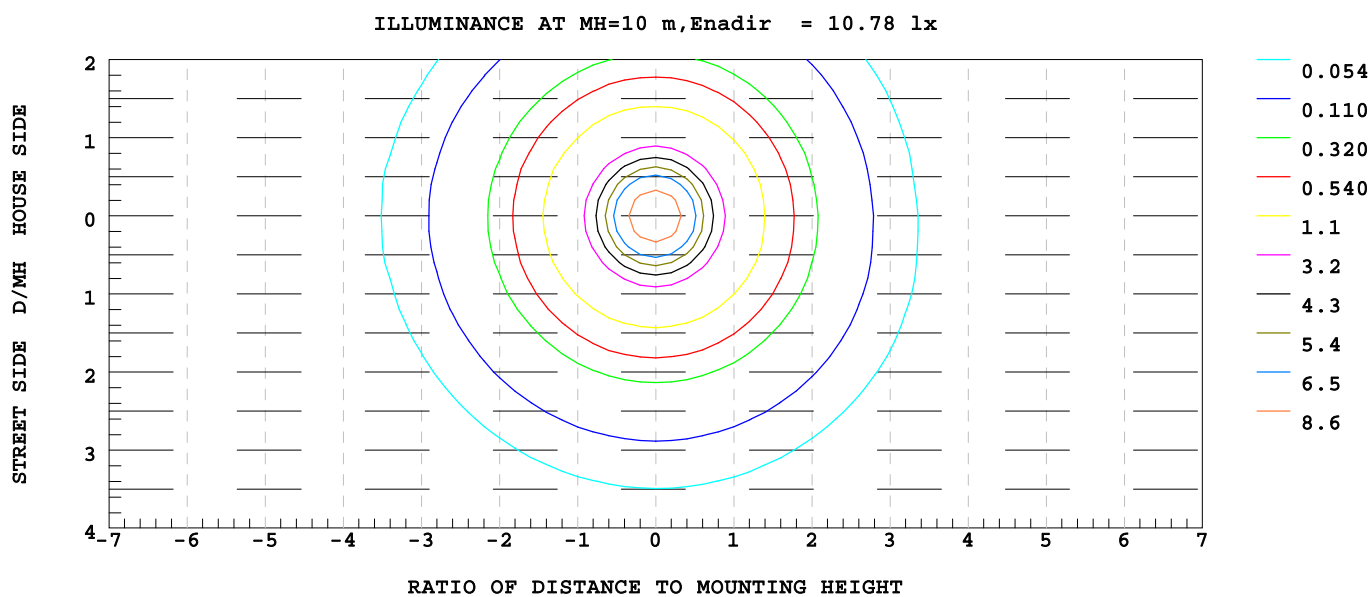
Test Set: 7.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

ISOLUX DIAGRAM

Report number:

MANUFACTURER: SGSLIGHT LIMITED	Address:	
NAME: LED PANEL	TYPE:	WEIGHT:
SPECIFICATION:TLP-F-3060W-40	DIMENSION: 296X596X11MM	SERIAL No.:



Test System:HOPPO HPG1900
 Temperature:25.3DEG
 Operators:TOM CHEN
 Test Date:2015-04-22

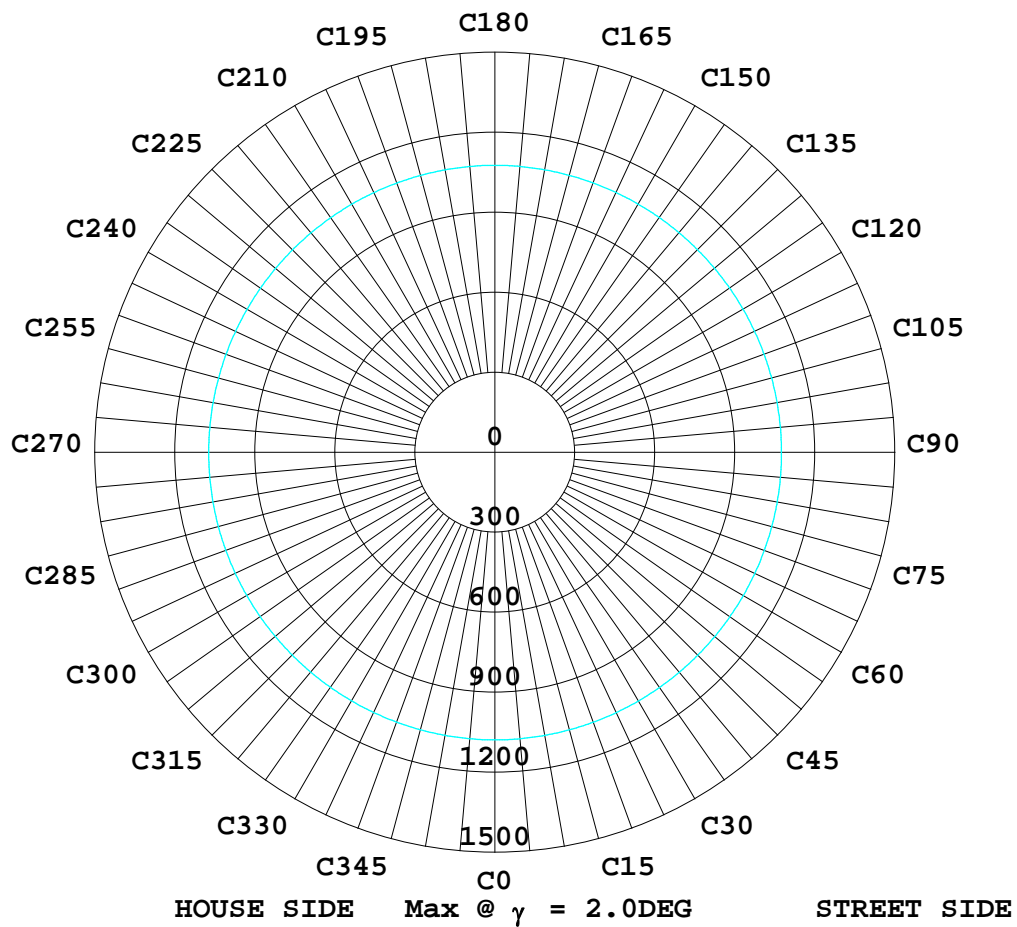
Test Set: 7.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: SGSLIGHT LIMITED	Address:	
NAME: LED PANEL	TYPE:	WEIGHT:
SPECIFICATION:TLP-F-3060W-40	DIMENSION: 296X596X11MM	SERIAL No.:



Test System:HOP00 HPG1900
 Temperature:25.3DEG
 Operators:TOM CHEN
 Test Date:2015-04-22

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-3060W-40	DIMENSION: 296X596X11MM	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	1078	1078	1078	1078	1078	1078	1078	1078	1078	1078	1078	1078	1078	1078	1078
5.0	1076	1076	1075	1074	1074	1074	1073	1073	1073	1072	1072	1072	1072	1072	1071
10.0	1065	1064	1063	1062	1062	1062	1062	1062	1062	1062	1062	1062	1063	1063	1063
15.0	1044	1043	1041	1041	1041	1042	1043	1044	1045	1044	1043	1043	1042	1041	1040
20.0	1016	1014	1012	1012	1013	1015	1017	1015	1013	1013	1013	1013	1014	1015	1014
25.0	977	975	974	975	977	977	975	975	976	977	979	978	977	975	975
30.0	931	929	929	931	931	929	929	932	934	931	930	929	929	929	929
35.0	877	874	873	870	870	875	878	877	876	876	876	878	876	874	873
40.0	815	813	816	816	814	817	816	814	816	817	814	813	812	812	812
45.0	747	745	749	746	748	746	747	749	746	745	745	746	745	743	742
50.0	671	672	674	672	671	672	674	671	670	672	670	668	668	668	668
55.0	593	593	593	593	593	594	591	592	590	589	589	590	589	588	587
60.0	508	512	508	508	509	506	506	505	505	506	504	504	503	503	503
65.0	422	425	422	424	419	419	418	419	417	416	416	416	416	416	415
70.0	333	335	333	331	329	330	328	327	326	326	326	326	326	326	326
75.0	248	246	246	241	241	238	237	237	237	237	238	238	239	239	239
80.0	162	162	157	154	151	151	151	151	151	152	152	153	153	153	154
85.0	82.5	75.3	67.9	67.5	66.7	65.9	65.7	68.6	70.5	74.8	74.9	76.1	77.3	78.2	79.1
90.0	6.24	2.57	2.57	2.57	2.57	2.57	2.61	2.70	2.96	3.31	3.70	4.23	4.93	5.54	6.19
95.0	2.48	2.83	2.95	2.99	3.00	2.97	2.96	2.97	3.00	3.13	3.29	3.54	3.88	4.20	4.57
100.0	2.88	3.11	3.20	3.19	3.30	3.30	3.31	3.32	3.29	3.29	3.28	3.25	3.21	3.18	3.19
105.0	3.92	3.69	3.49	3.56	3.65	3.65	3.76	3.73	3.73	3.71	3.70	3.70	3.66	3.63	3.65
110.0	4.32	4.08	4.11	4.09	4.08	4.12	4.09	4.18	4.16	4.18	4.16	4.13	4.15	4.11	4.11
115.0	5.01	4.88	4.56	4.52	4.61	4.52	4.63	4.66	4.64	4.68	4.58	4.61	4.61	4.58	4.57
120.0	5.76	5.46	5.30	5.40	5.06	5.16	5.12	5.05	5.14	5.04	5.10	5.07	5.06	5.00	5.02
125.0	6.15	5.97	5.95	5.87	5.83	5.78	5.57	5.69	5.55	5.52	5.53	5.62	5.49	5.43	5.47
130.0	7.20	6.89	6.59	6.58	6.33	6.30	6.27	6.08	6.06	6.05	6.05	6.05	6.02	6.00	6.02
135.0	7.59	7.38	7.29	7.05	7.05	7.01	6.65	6.60	6.60	6.61	6.62	6.48	6.38	6.44	6.51
140.0	8.64	8.29	7.86	7.53	7.52	7.32	7.34	7.18	7.15	7.18	7.01	6.91	6.98	6.91	6.96
145.0	8.68	8.49	8.39	8.27	8.03	7.99	7.86	7.91	7.72	7.56	7.43	7.47	7.39	7.50	7.41
150.0	9.38	9.15	8.93	8.75	8.79	8.59	8.39	8.21	8.20	7.93	8.04	7.91	8.03	7.94	7.89
155.0	9.73	9.53	9.34	9.16	9.16	8.98	8.68	8.53	8.66	8.53	8.47	8.55	8.45	8.37	8.55
160.0	9.77	9.65	9.58	9.56	9.50	9.36	9.22	9.09	9.21	9.15	9.04	8.95	8.91	9.07	9.01
165.0	10.4	10.3	10.2	10.1	9.99	9.88	9.77	9.67	9.57	9.49	9.53	9.63	9.56	9.51	9.46
170.0	10.4	10.4	10.3	10.3	10.3	10.3	10.3	10.2	10.2	10.1	10.0	10.0	9.99	9.95	9.92
175.0	10.8	10.7	10.7	10.6	10.6	10.6	10.5	10.5	10.5	10.4	10.4	10.4	10.4	10.3	10.3
180.0	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8

Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:TOM CHEN
 Test Date:2015-04-22

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-3060W-40	DIMENSION: 296X596X11MM	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	1078	1078	1078	1078	1078	1078	1078	1078	1078	1078	1078	1078	1078	1078	1078
5.0	1071	1071	1071	1070	1070	1070	1070	1069	1069	1069	1068	1068	1068	1068	1068
10.0	1063	1063	1063	1063	1062	1061	1060	1059	1058	1057	1056	1055	1054	1052	1051
15.0	1039	1039	1038	1038	1037	1036	1035	1034	1034	1033	1032	1032	1032	1032	1030
20.0	1013	1013	1013	1012	1011	1010	1008	1007	1004	1002	1000	998	997	998	1001
25.0	973	972	971	970	969	968	967	965	964	963	963	963	959	956	954
30.0	929	929	928	927	926	924	922	920	917	915	913	911	910	910	906
35.0	872	871	870	869	868	866	865	864	863	862	862	857	854	848	853
40.0	812	812	812	811	809	808	805	803	801	799	796	795	794	791	787
45.0	741	741	740	739	738	737	735	734	733	732	731	727	723	722	720
50.0	668	668	667	666	665	664	662	660	658	656	655	653	653	648	645
55.0	587	586	585	585	584	583	582	581	580	578	577	574	571	571	568
60.0	504	504	503	503	502	502	500	499	497	496	494	492	491	488	484
65.0	415	415	415	415	414	414	413	413	412	412	411	409	406	403	401
70.0	326	326	326	326	326	326	326	325	325	324	324	323	322	321	318
75.0	240	240	240	241	241	241	241	241	240	240	239	238	237	236	235
80.0	154	155	155	156	156	157	157	158	158	158	158	158	157	157	155
85.0	80.1	80.8	81.6	82.3	82.8	83.2	83.4	83.4	83.3	82.8	82.2	81.5	81.3	81.1	80.6
90.0	6.89	7.55	8.24	8.90	9.55	10.0	10.3	10.5	10.6	9.86	8.51	7.59	7.55	8.24	9.77
95.0	4.95	5.31	5.68	6.02	6.33	6.51	6.59	6.56	6.44	5.92	5.14	4.58	4.28	4.05	3.71
100.0	3.17	3.15	3.14	3.14	3.14	3.11	3.13	3.11	3.12	3.14	3.15	3.17	3.23	3.27	3.32
105.0	3.64	3.62	3.62	3.62	3.62	3.59	3.60	3.59	3.60	3.63	3.67	3.72	3.76	3.83	3.88
110.0	4.11	4.11	4.10	4.10	4.10	4.08	4.07	4.09	4.09	4.12	4.18	4.24	4.30	4.41	4.49
115.0	4.58	4.61	4.59	4.58	4.59	4.57	4.57	4.59	4.55	4.61	4.74	4.73	4.81	4.96	5.04
120.0	5.05	5.09	5.07	5.06	5.07	5.05	5.10	5.11	5.07	5.12	5.20	5.32	5.39	5.49	5.55
125.0	5.51	5.58	5.55	5.54	5.55	5.53	5.58	5.56	5.59	5.65	5.67	5.83	5.84	6.03	6.11
130.0	5.98	6.06	6.03	6.02	6.03	6.02	6.07	6.00	6.06	6.03	6.16	6.29	6.44	6.49	6.71
135.0	6.44	6.54	6.51	6.50	6.51	6.50	6.55	6.47	6.63	6.63	6.72	6.72	6.91	7.09	7.12
140.0	6.97	7.02	6.99	6.98	6.99	7.00	7.03	7.10	7.01	7.09	7.09	7.27	7.31	7.52	7.76
145.0	7.55	7.50	7.47	7.46	7.49	7.50	7.50	7.57	7.46	7.68	7.65	7.65	7.91	7.92	8.08
150.0	8.02	7.97	7.95	7.94	8.04	7.97	7.98	8.04	8.12	7.99	8.24	8.21	8.35	8.26	8.62
155.0	8.49	8.45	8.43	8.42	8.60	8.45	8.48	8.50	8.58	8.66	8.51	8.62	8.89	8.86	9.01
160.0	8.96	8.93	8.91	8.90	9.06	8.93	8.96	8.97	9.02	9.10	9.18	9.28	9.10	9.22	9.41
165.0	9.43	9.40	9.38	9.38	9.45	9.50	9.43	9.46	9.50	9.52	9.59	9.66	9.74	9.84	9.94
170.0	9.89	9.87	9.86	9.86	9.86	10.0	10.0	9.92	9.95	9.99	10.0	10.0	10.0	10.1	10.2
175.0	10.3	10.3	10.3	10.3	10.3	10.3	10.4	10.5	10.6	10.5	10.4	10.4	10.4	10.5	10.5
180.0	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8

Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:TOM CHEN
 Test Date:2015-04-22

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-3060W-40	DIMENSION: 296X596X11MM	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	1078	1078	1078	1078	1078	1078	1078	1078	1078	1078	1078	1078	1078	1078	1078
5.0	1068	1068	1068	1069	1069	1070	1070	1069	1068	1068	1067	1066	1066	1066	1065
10.0	1051	1051	1050	1051	1051	1052	1053	1051	1050	1049	1048	1047	1047	1047	1047
15.0	1028	1026	1025	1025	1025	1026	1028	1026	1025	1024	1023	1022	1021	1022	1024
20.0	998	995	992	990	990	990	992	989	987	986	986	988	989	987	991
25.0	953	953	952	948	947	947	949	945	943	943	944	944	943	942	942
30.0	900	902	902	900	896	895	897	893	891	893	893	891	891	892	894
35.0	850	846	844	843	839	838	841	835	833	835	833	832	834	834	831
40.0	786	785	780	777	775	773	775	770	769	768	767	769	766	765	766
45.0	716	713	712	707	705	701	704	698	697	696	697	695	694	695	695
50.0	643	638	636	633	628	626	629	622	620	620	619	617	618	617	619
55.0	563	560	556	555	548	544	546	540	539	540	537	537	536	539	539
60.0	484	478	474	470	466	461	463	456	455	453	453	453	456	453	454
65.0	398	395	391	385	383	376	375	370	370	367	368	369	368	368	369
70.0	314	310	307	302	296	290	291	283	282	283	283	283	284	286	287
75.0	234	230	225	221	214	209	205	201	199	201	201	203	204	204	204
80.0	153	151	150	144	138	130	125	127	127	123	125	126	125	126	126
85.0	78.2	76.8	76.0	71.0	66.6	56.3	47.5	41.4	49.6	50.1	51.7	52.7	52.5	54.9	56.9
90.0	10.0	10.2	9.81	8.72	6.54	4.23	5.49	2.66	2.66	2.61	2.66	2.74	2.79	2.83	2.88
95.0	2.80	2.84	2.99	3.30	3.96	5.88	8.55	4.96	3.59	3.12	3.03	2.98	3.00	3.10	3.15
100.0	3.45	3.63	3.93	4.46	5.40	7.02	7.55	5.66	4.53	4.01	3.78	3.63	3.60	3.60	3.60
105.0	4.08	4.31	4.78	5.21	6.15	7.48	7.20	5.96	5.21	4.83	4.35	4.23	4.20	4.15	4.12
110.0	4.72	4.97	5.31	6.01	6.57	7.45	6.98	6.44	5.89	5.21	5.05	4.91	4.79	4.66	4.63
115.0	5.18	5.59	5.90	6.30	6.90	7.73	7.07	6.53	6.25	5.85	5.71	5.44	5.31	5.26	5.13
120.0	5.78	5.95	6.45	6.74	7.33	7.85	7.55	7.18	6.89	6.51	6.27	6.01	5.96	5.85	5.74
125.0	6.25	6.52	6.84	7.00	7.64	8.20	8.03	7.69	7.41	7.01	6.68	6.64	6.53	6.33	6.25
130.0	6.88	7.10	7.42	7.61	7.94	8.34	8.46	8.16	7.99	7.63	7.31	7.04	7.06	6.90	6.84
135.0	7.39	7.48	7.82	8.06	8.39	8.56	9.20	8.77	8.25	8.15	7.94	7.58	7.51	7.47	7.28
140.0	7.96	7.98	8.27	8.56	8.79	8.97	9.25	9.00	8.86	8.63	8.34	8.33	7.90	7.86	7.86
145.0	8.31	8.70	8.77	9.05	9.22	9.36	9.95	9.61	9.20	8.94	8.87	8.62	8.65	8.43	8.25
150.0	8.63	8.79	9.01	9.25	9.49	9.74	10.3	10.0	9.84	9.60	9.36	8.91	9.06	8.82	8.73
155.0	9.04	9.06	9.35	9.68	9.74	9.86	10.6	10.4	10.1	9.81	9.59	9.55	9.37	9.29	9.21
160.0	9.68	9.62	9.74	9.89	10.0	10.2	10.7	10.5	10.4	10.2	10.0	9.97	9.83	9.88	9.62
165.0	10.0	9.97	9.95	10.0	10.1	10.3	10.7	10.6	10.5	10.4	10.3	10.1	10.0	10.2	10.1
170.0	10.2	10.3	10.4	10.5	10.6	10.6	11.1	11.0	10.9	10.8	10.7	10.7	10.6	10.5	10.5
175.0	10.5	10.6	10.6	10.6	10.7	10.7	11.1	11.0	11.0	11.0	10.9	10.9	10.8	10.8	10.8
180.0	10.8	10.8	10.8	10.8	10.8	10.8	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1

Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:TOM CHEN
 Test Date:2015-04-22

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-3060W-40	DIMENSION: 296X596X11MM	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	1078	1078	1078	1078	1078	1078	1078	1078	1078	1078	1078	1078	1078	1078	1078
5.0	1065	1065	1065	1065	1065	1065	1066	1066	1066	1066	1067	1067	1067	1068	1068
10.0	1048	1048	1049	1050	1050	1051	1052	1053	1054	1055	1056	1056	1056	1056	1056
15.0	1024	1023	1022	1022	1022	1022	1023	1024	1024	1025	1026	1027	1028	1029	1030
20.0	987	986	987	988	989	990	992	993	995	996	997	998	998	998	999
25.0	944	947	946	945	945	945	946	946	948	949	950	952	953	955	957
30.0	892	891	891	892	893	895	897	898	900	902	903	905	906	906	907
35.0	831	833	835	835	835	835	836	837	838	840	841	843	845	847	850
40.0	768	766	767	768	769	771	773	774	776	778	779	781	782	783	784
45.0	694	696	698	699	699	699	699	701	702	704	705	707	709	711	714
50.0	621	619	619	620	621	622	624	626	627	629	631	633	634	635	637
55.0	537	538	539	539	541	541	542	543	544	546	547	549	551	553	556
60.0	454	454	455	456	457	458	459	460	461	462	463	465	466	468	470
65.0	370	371	372	372	372	373	373	374	375	376	377	379	380	382	383
70.0	286	287	287	287	287	287	288	288	289	290	291	292	294	295	297
75.0	203	203	204	205	205	205	205	206	206	207	208	209	210	211	212
80.0	126	127	126	126	125	125	124	124	124	124	124	125	126	127	128
85.0	58.2	60.2	61.0	61.5	62.1	62.3	62.6	62.9	63.1	63.2	63.3	63.4	63.4	63.4	63.3
90.0	2.88	2.83	2.79	2.74	2.74	2.74	2.70	2.70	2.70	2.66	2.66	2.70	2.70	2.70	2.70
95.0	3.16	3.14	3.11	3.10	3.08	3.09	3.08	3.08	3.07	3.05	3.05	3.08	3.08	3.07	3.09
100.0	3.59	3.54	3.51	3.49	3.46	3.46	3.47	3.46	3.45	3.44	3.45	3.46	3.47	3.45	3.48
105.0	4.11	4.04	4.01	3.98	3.96	3.94	3.95	3.94	3.93	3.92	3.93	3.93	3.94	3.93	3.91
110.0	4.62	4.52	4.51	4.47	4.44	4.43	4.42	4.43	4.41	4.40	4.41	4.41	4.42	4.42	4.36
115.0	5.06	5.08	4.99	4.92	4.94	4.94	4.89	4.92	4.89	4.88	4.89	4.91	4.89	4.90	4.83
120.0	5.61	5.50	5.55	5.49	5.41	5.42	5.36	5.40	5.37	5.36	5.37	5.40	5.36	5.34	5.32
125.0	6.19	6.04	6.02	5.94	5.91	5.94	5.91	5.88	5.85	5.84	5.85	5.88	5.82	5.77	5.82
130.0	6.66	6.64	6.50	6.45	6.41	6.37	6.42	6.36	6.36	6.32	6.33	6.36	6.28	6.22	6.40
135.0	7.26	6.93	6.95	6.86	6.91	6.81	6.90	6.85	6.89	6.80	6.81	6.85	6.74	6.81	6.79
140.0	7.49	7.59	7.50	7.44	7.47	7.32	7.38	7.32	7.43	7.28	7.29	7.32	7.27	7.27	7.17
145.0	8.08	8.06	8.00	7.97	7.81	7.92	7.85	7.80	7.97	7.76	7.80	7.80	7.85	7.72	7.80
150.0	8.52	8.56	8.52	8.34	8.43	8.39	8.33	8.28	8.47	8.24	8.36	8.28	8.33	8.20	8.24
155.0	9.10	9.14	8.86	8.96	8.92	8.85	8.80	8.76	8.97	8.72	8.95	8.76	8.80	8.85	8.68
160.0	9.45	9.43	9.53	9.44	9.37	9.31	9.26	9.39	9.40	9.20	9.47	9.23	9.26	9.31	9.37
165.0	10.0	10.0	9.94	9.87	9.81	9.77	9.78	9.99	9.77	9.68	9.97	9.83	9.73	9.77	9.81
170.0	10.4	10.3	10.3	10.2	10.2	10.4	10.5	10.4	10.1	10.1	10.4	10.4	10.3	10.2	10.2
175.0	10.9	11.0	11.0	11.0	11.0	10.9	10.7	10.6	10.6	10.6	10.7	10.9	10.9	11.0	10.9
180.0	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1

Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:TOM CHEN
 Test Date:2015-04-22

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-3060W-40	DIMENSION: 296X596X11MM	SERIAL No.:

UNIT: cd

γ (DEG)	C (DEG)											
	300	305	310	315	320	325	330	335	340	345	350	355
0.0	1078	1078	1078	1078	1078	1078	1078	1078	1078	1078	1078	1078
5.0	1068	1069	1069	1070	1070	1071	1071	1072	1073	1073	1074	1075
10.0	1056	1056	1056	1057	1057	1057	1058	1059	1059	1060	1062	1063
15.0	1031	1033	1034	1036	1038	1037	1037	1037	1037	1038	1040	1042
20.0	999	1000	1001	1002	1004	1006	1010	1009	1009	1009	1010	1013
25.0	959	961	964	963	964	965	967	970	972	971	971	973
30.0	908	910	912	915	919	919	918	921	924	926	925	927
35.0	854	858	857	858	859	862	866	865	864	870	872	873
40.0	787	789	792	797	799	799	802	805	805	810	812	811
45.0	717	720	721	724	727	733	732	734	738	739	746	743
50.0	639	641	645	649	650	654	659	660	661	664	669	669
55.0	560	563	564	566	569	573	576	582	583	586	588	591
60.0	472	475	478	483	485	487	490	494	501	501	503	510
65.0	385	387	389	393	397	402	404	407	410	418	418	423
70.0	299	301	302	305	306	310	315	320	322	326	330	334
75.0	214	216	218	219	222	223	225	229	235	237	245	246
80.0	130	133	133	135	137	140	144	145	147	152	157	163
85.0	63.2	64.1	61.8	61.4	60.7	60.1	58.9	61.8	65.5	68.9	70.6	78.8
90.0	2.70	2.70	2.74	2.79	2.79	2.83	2.79	2.70	2.66	2.61	2.53	2.57
95.0	3.08	3.10	3.11	3.15	3.16	3.17	3.13	3.09	2.98	2.84	2.69	2.26
100.0	3.47	3.50	3.49	3.52	3.52	3.48	3.40	3.30	3.15	2.92	2.68	2.36
105.0	3.89	3.92	3.90	3.92	3.89	3.80	3.75	3.62	3.41	3.13	2.92	2.60
110.0	4.36	4.33	4.32	4.29	4.29	4.21	4.08	3.97	3.89	3.63	3.51	3.25
115.0	4.76	4.79	4.75	4.74	4.67	4.67	4.46	4.38	4.31	4.25	4.08	3.98
120.0	5.26	5.22	5.24	5.23	5.12	5.15	5.15	4.85	4.85	4.90	4.81	5.01
125.0	5.67	5.75	5.65	5.63	5.62	5.62	5.63	5.62	5.55	5.42	5.60	5.55
130.0	6.23	6.19	6.15	6.14	6.14	6.13	6.10	6.11	6.29	6.30	6.55	6.58
135.0	6.81	6.61	6.56	6.67	6.66	6.64	6.81	6.80	6.78	7.00	6.99	7.24
140.0	7.43	7.24	7.11	7.06	7.19	7.20	7.35	7.31	7.50	7.63	7.69	7.94
145.0	7.70	7.95	7.78	7.63	7.76	7.92	7.86	7.98	8.00	8.22	8.33	8.42
150.0	8.23	8.22	8.54	8.44	8.34	8.24	8.42	8.33	8.76	8.70	8.87	9.08
155.0	8.76	8.85	8.71	8.92	9.20	9.08	9.10	9.11	9.16	9.14	9.32	9.50
160.0	9.21	9.25	9.35	9.45	9.28	9.40	9.59	9.93	10.0	10.1	10.1	10.2
165.0	9.87	9.94	9.84	9.79	9.88	9.97	10.0	10.1	10.2	10.2	10.2	10.3
170.0	10.2	10.3	10.3	10.4	10.5	10.5	10.6	10.7	10.6	10.6	10.6	10.7
175.0	10.8	10.7	10.7	10.7	10.8	10.8	10.8	10.9	10.9	11.0	11.0	11.0
180.0	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1

Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:TOM CHEN
 Test Date:2015-04-22

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