

LUMINAIRE PHOTOMETRIC TEST REPORT

LAMP PHOTOMETRIC REPORT

MODEL: TLP-F-3012N-72

POWER: 72W

VOLTAGE: 230V

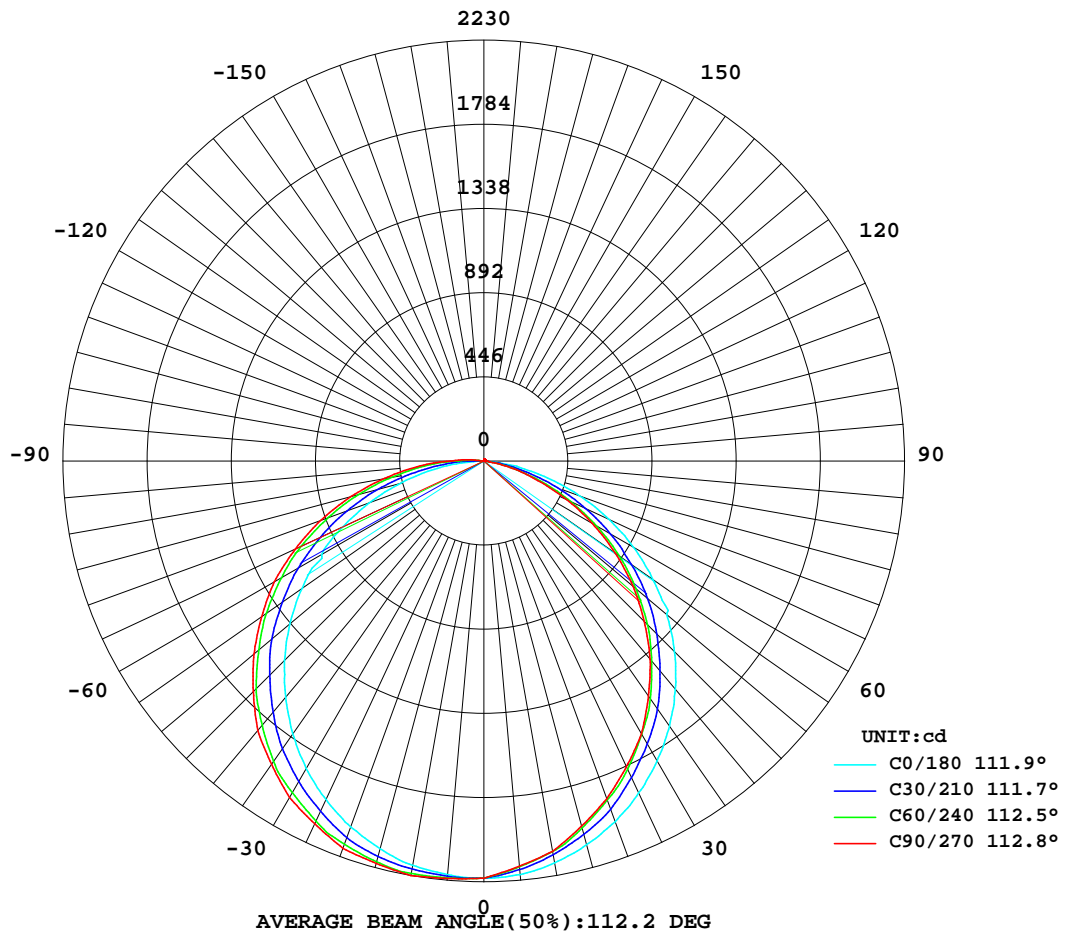
WORKING VOLTAGE: 219.6V

MANUFACTURER: SGSLIGHT LIMITED

TOTAL FLUX: 6349.0 lm

Efficiency: 86.369 lm/W

Test: U: 229.6V I: 0.340A P: 73.51W PF: 0.944



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

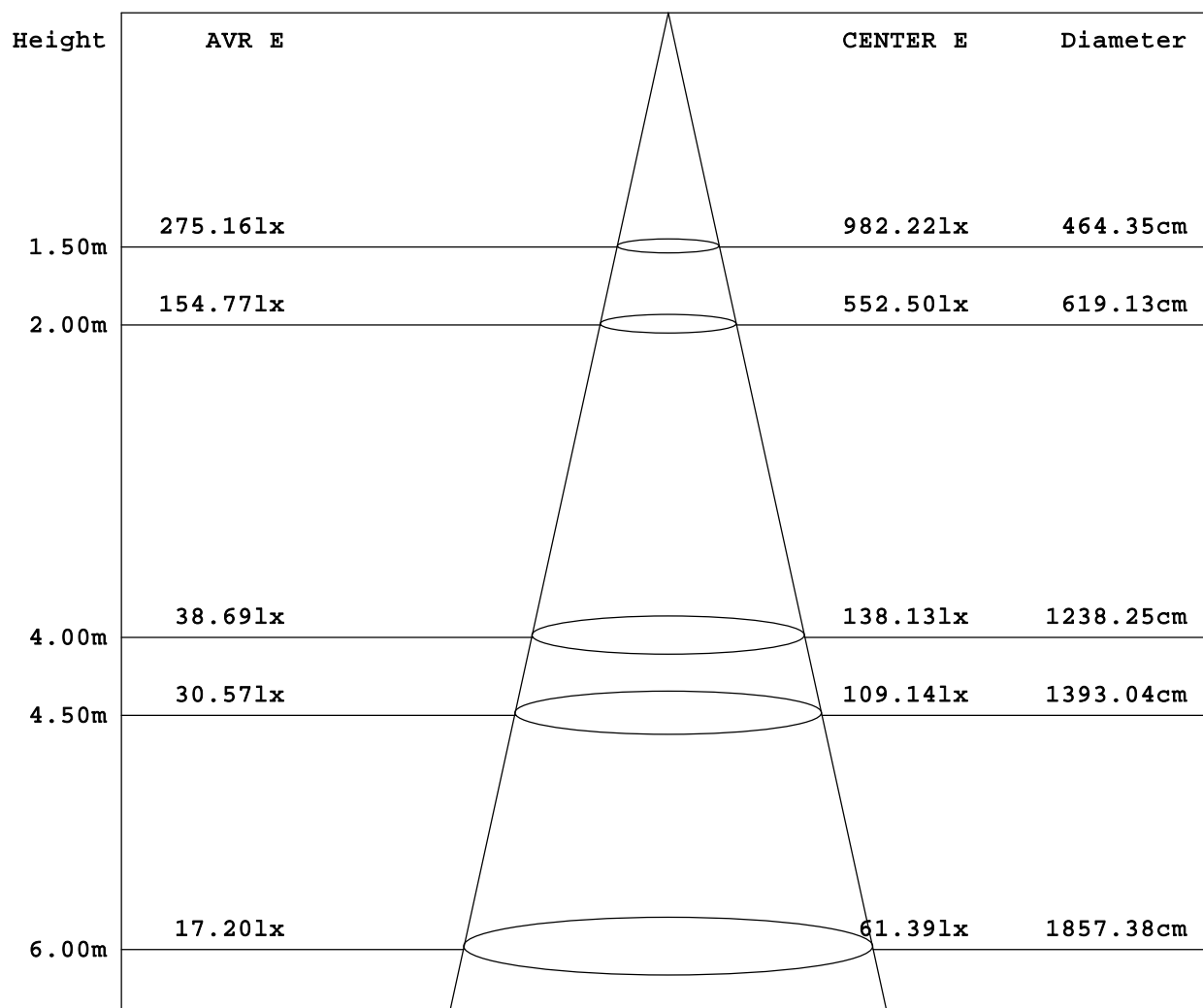
Test Set: 8.0deg/s B-Beta (TYPE B)
Humidity:65.0%
Test Distance:7.000 m
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

AVERAGE AND CENTER E Figure

Report number:

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



Angle:114.3deg

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

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

LUMINAIRE PHOTOMETRIC TEST REPORT

ZONAL FLUX DIAGRAM

Report number:

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

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	zone	total
5.0	2200	2213	2220	2210	2199	2164	2155	2169	0- 5	52.55	52.55
10.0	2175	2207	2230	2202	2162	2107	2100	2118	5- 10	155.5	208.1
15.0	2127	2191	2207	2169	2105	2032	2002	2052	10- 15	253.2	461.4
20.0	2063	2140	2184	2120	2034	1931	1904	1957	15- 20	341.8	803.2
25.0	1978	2080	2121	2058	1942	1821	1788	1853	20- 25	418.9	1222
30.0	1882	1999	2059	1974	1835	1692	1671	1730	25- 30	481.6	1704
35.0	1765	1902	1962	1871	1716	1560	1521	1597	30- 35	528.5	2232
40.0	1633	1795	1865	1759	1578	1416	1371	1456	35- 40	557.2	2790
45.0	1494	1659	1728	1622	1428	1252	1202	1292	40- 45	567.3	3357
50.0	1341	1520	1591	1489	1264	1087	1032	1127	45- 50	558.1	3915
55.0	1175	1358	1437	1325	1094	907.8	848.1	946.7	50- 55	530.7	4446
60.0	994.3	1212	1283	1161	914.7	729.5	664.3	765.6	55- 60	485.0	4931
65.0	824.5	1016	1101	988.4	732.5	543.7	484.3	579.2	60- 65	424.4	5355
70.0	644.7	830.9	919.5	809.1	540.6	368.3	304.3	399.3	65- 70	350.0	5705
75.0	458.7	639.1	727.0	624.7	349.4	206.1	169.5	227.5	70- 75	267.6	5973
80.0	284.0	448.2	534.5	436.3	183.5	83.14	34.71	98.74	75- 80	182.9	6156
85.0	118.7	272.5	356.9	261.4	24.84	11.32	17.86	20.25	80- 85	105.3	6261
90.0	7.081	112.9	179.3	105.0	0.443	0.822	1.011	1.074	85- 90	49.57	6311
95.0	0	33.60	90.04	31.42	0	1.322	1.612	1.654	90- 95	18.83	6330
100.0	0	0	0.759	0	0	1.872	2.213	2.225	95-100	4.573	6334
105.0	0	0	0	0	1.707	2.396	2.813	2.964	100-105	0.535	6335
110.0	0	0	0	0	2.908	2.950	3.414	3.594	105-110	0.693	6336
115.0	0	0	0	0	3.667	3.567	4.015	4.369	110-115	0.847	6336
120.0	0	0	0	0	3.920	4.046	4.615	4.795	115-120	0.978	6337
125.0	0	0	0	0	5.248	4.780	5.216	5.487	120-125	1.095	6339
130.0	0	0	0	0	6.449	5.237	5.817	6.185	125-130	1.199	6340
135.0	0	0	0	0	7.081	6.013	6.417	7.021	130-135	1.274	6341
140.0	0	0	0	0	8.220	6.810	7.018	7.889	135-140	1.308	6342
145.0	0	0	0	0	8.789	7.291	7.619	8.388	140-145	1.283	6344
150.0	0	0	0	0	9.358	8.127	8.220	9.025	145-150	1.231	6345
155.0	0	0	0	0	9.927	8.598	8.820	9.606	150-155	1.146	6346
160.0	0	0	0	0	10.55	9.486	9.421	10.21	155-160	1.011	6347
165.0	0	0	0	0	11.12	10.40	10.02	10.16	160-165	0.841	6348
170.0	0	0	0	0	11.69	10.93	10.62	11.00	165-170	0.636	6348
175.0	0	0	0	0	11.76	11.33	11.22	11.46	170-175	0.400	6349
180.0	0	0	0	0	11.82	11.82	11.82	11.82	175-180	0.138	6349
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

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

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

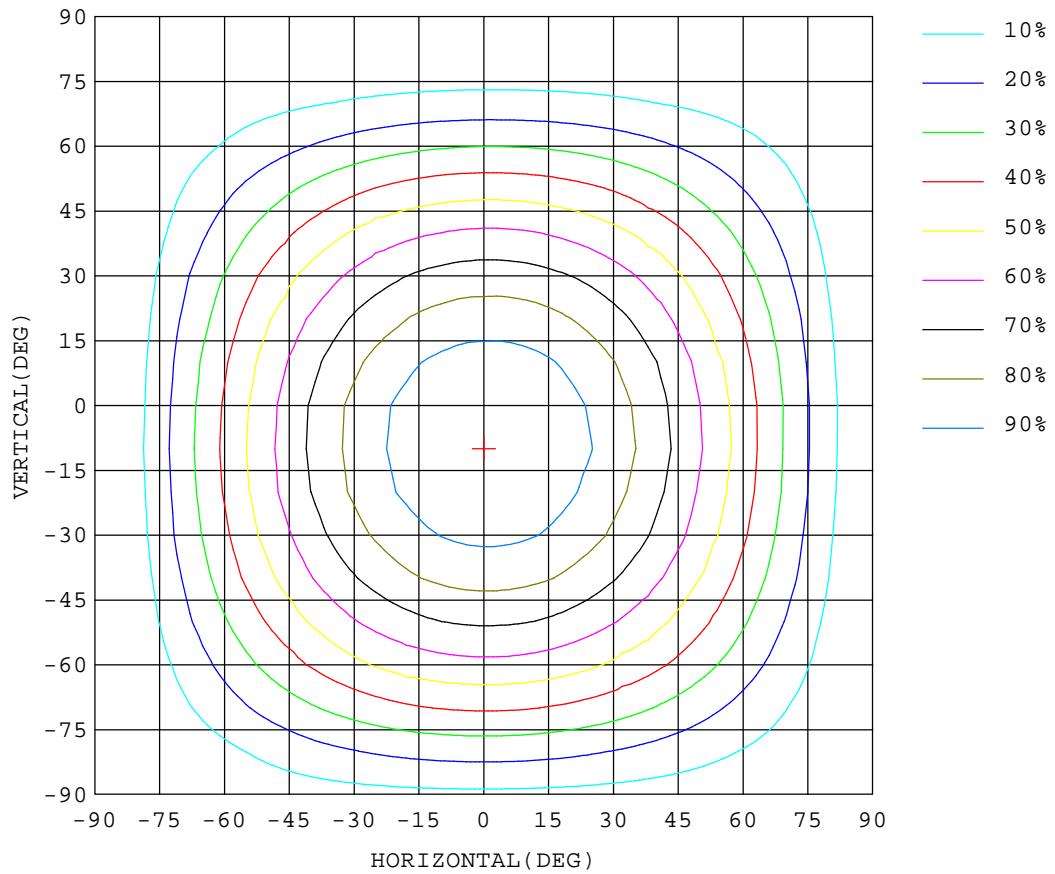
LUMINAIRE PHOTOMETRIC TEST REPORT

ISOCANDELA DIAGRAM

Report number:

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

UNIT: cd



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

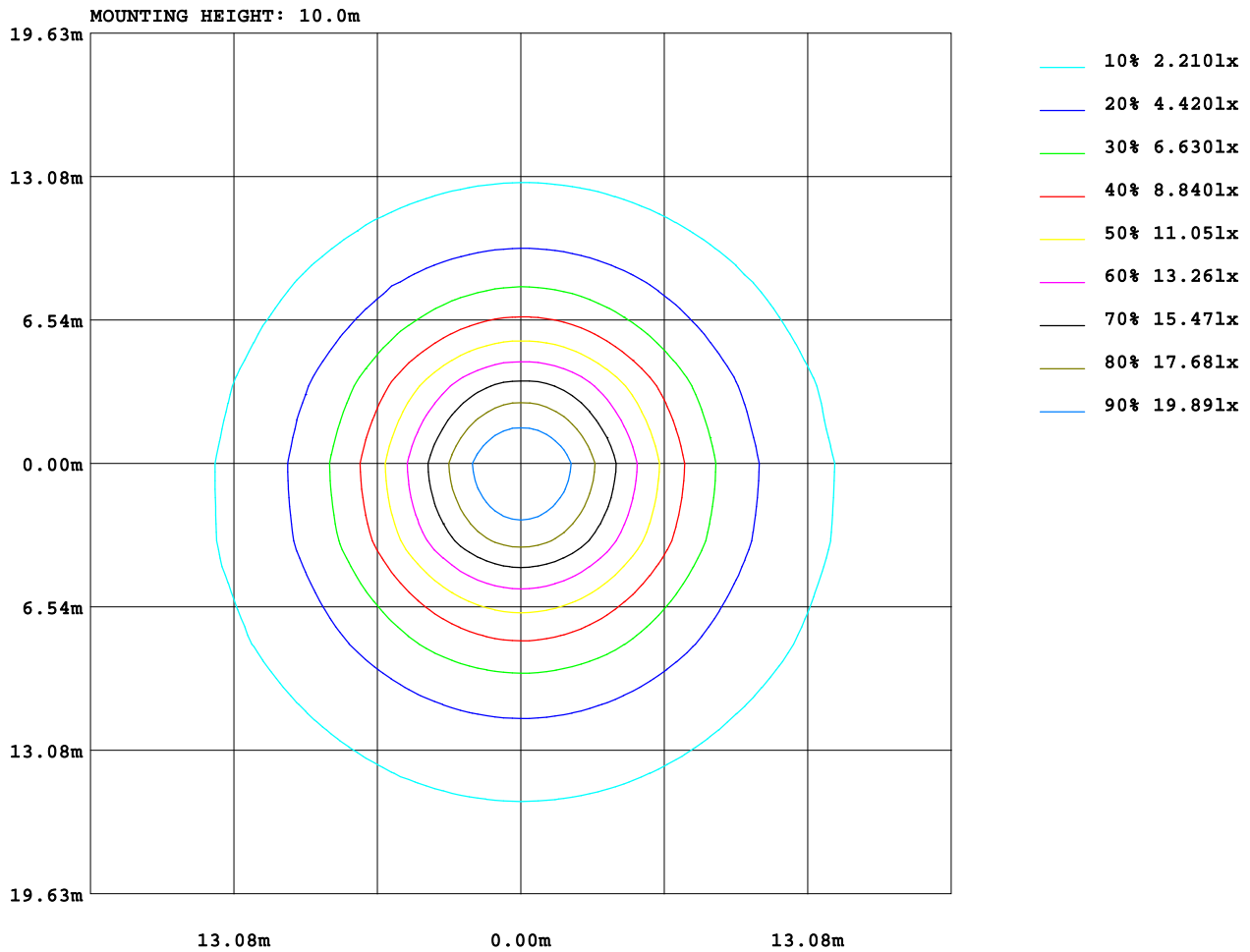
Test Set: 8.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

ISOLUX DIAGRAM

Report number:

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



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

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

LUMINAIRE PHOTOMETRIC TEST REPORT

AREA LUMINOUS FLUX

Report number:

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

		AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a												
VERTICAL (DEG)	90	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.00	0.00	0.16	0.16												
	80	0.00	0.00	0.05	0.22	0.50	0.81	1.09	1.33	1.50	1.58	1.54	1.39	1.16	0.90	0.59	0.29	0.09	0.01	13.0	13.0												
	70	0.02	0.44	1.57	3.39	5.64	8.07	10.3	12.1	13.1	13.2	12.4	10.7	8.59	6.18	3.90	2.05	0.73	0.08	113	113												
	60	0.04	0.81	3.02	6.60	11.0	15.7	20.0	23.4	25.3	25.5	23.9	20.8	16.6	12.0	7.50	3.80	1.30	0.16	218	218												
	50	0.09	1.35	4.84	10.0	16.5	23.2	29.4	34.0	36.5	36.7	34.4	30.1	24.2	17.5	11.0	5.58	1.89	0.20	318	318												
	40	0.10	1.80	6.25	13.0	21.1	29.6	37.4	43.0	46.2	46.4	43.5	38.1	30.6	22.4	14.2	7.34	2.54	0.29	404	404												
	30	0.14	2.33	7.72	15.6	25.1	35.0	43.9	50.8	54.7	54.9	51.5	45.1	36.4	26.7	17.0	8.78	3.02	0.37	480	480												
		0.19	2.63	8.62	17.5	28.3	39.2	49.2	56.7	60.9	61.3	57.6	50.3	40.6	29.7	18.8	9.95	3.50	0.40	536	536												
		0.20	2.93	9.48	18.9	30.4	42.4	52.9	61.3	65.9	66.2	62.1	54.2	43.7	32.1	20.8	10.7	3.72	0.47	579	579												
		0.24	3.00	9.79	19.8	31.6	43.8	54.9	63.3	68.2	68.2	63.9	55.8	45.0	32.8	20.9	10.9	3.88	0.46	597	597												
		0.19	3.06	9.79	19.4	31.2	43.1	54.1	62.6	67.3	67.6	63.5	55.6	44.8	32.7	21.1	10.8	3.77	0.47	592	592												
	-30	0.23	2.84	9.35	19.0	30.2	41.8	52.5	60.5	65.0	65.1	60.8	52.9	42.5	31.1	19.6	10.3	3.63	0.42	569	569												
	-40	0.14	2.64	8.58	17.1	27.6	38.4	48.2	55.7	59.9	60.2	56.5	49.3	39.7	28.9	18.7	9.47	3.23	0.40	525	525												
	-50	0.15	2.17	7.45	15.3	24.6	34.1	42.7	49.4	53.1	53.2	49.8	43.3	34.7	25.3	15.9	8.24	2.84	0.30	463	463												
	-60	0.08	1.73	6.10	12.4	20.0	28.1	35.4	40.8	43.8	43.9	41.2	35.9	29.0	20.9	13.2	6.66	2.20	0.26	382	382												
	-70	0.04	1.16	4.35	9.43	15.4	21.7	27.3	31.7	33.9	34.0	31.8	27.6	21.9	15.8	9.88	4.95	1.62	0.14	293	293												
	-80	0.03	0.62	2.59	5.89	9.92	14.0	17.7	20.5	22.1	22.2	20.7	17.8	14.2	10.0	6.18	3.04	0.97	0.10	189	189												
	-90	0.00	0.14	0.80	2.18	4.26	6.40	8.22	9.57	10.3	10.2	9.55	8.17	6.39	4.50	2.76	1.38	0.46	0.05	85.4	85.4												
		-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)																20	30	40	50	60	70	80	90
Φ t	1.88	29.7	100	206	334	466	586	677	729	731	685	598	481	350	223	114	39.4	4.59	6349														
Φ a	1.88	29.7	100	206	334	466	586	677	729	731	685	598	481	350	223	114	39.4	4.59		6349													

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

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

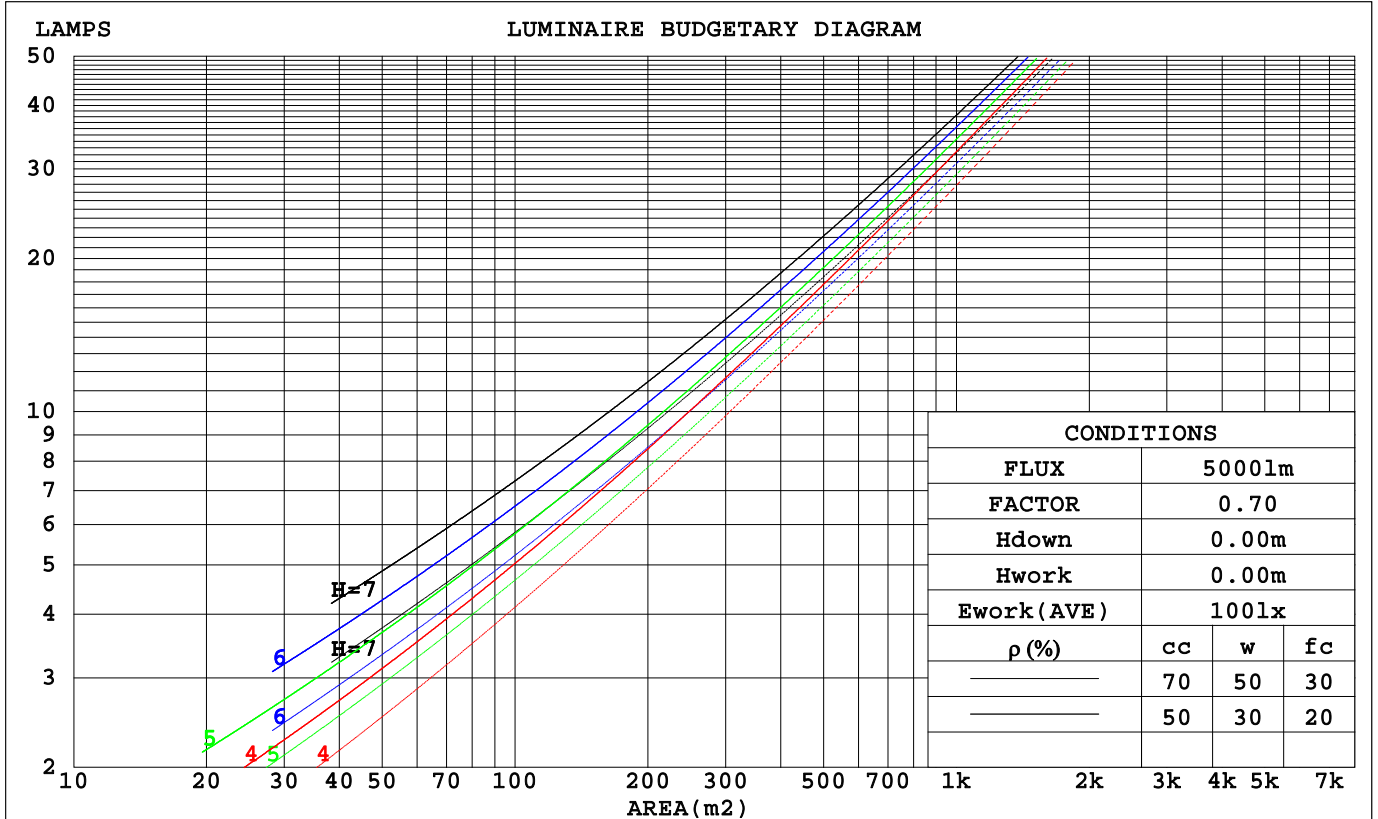
LUMINAIRE PHOTOMETRIC TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

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

ρcc	80%			70%			50%			30%			10%			0														
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0														
ρfc	20%			20%			20%			20%			20%			0														
RCR	RCR:Room Cavity Ratio															Coefficients of Utilization(CU)														
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.01	1.01	1.01	.99														
1.0	1.03	.99	.95	1.01	.97	.93	.97	.93	.90	.93	.90	.87	.89	.87	.85	.83														
2.0	.90	.83	.77	.88	.82	.76	.84	.79	.74	.81	.76	.73	.78	.74	.71	.69														
3.0	.79	.71	.64	.77	.70	.63	.74	.68	.62	.71	.66	.61	.69	.64	.60	.58														
4.0	.70	.61	.54	.68	.60	.54	.66	.59	.53	.63	.57	.52	.61	.56	.51	.49														
5.0	.62	.53	.47	.61	.53	.46	.59	.51	.46	.57	.50	.45	.55	.49	.45	.42														
6.0	.56	.47	.41	.55	.47	.40	.53	.46	.40	.51	.45	.40	.50	.44	.39	.37														
7.0	.51	.42	.36	.50	.42	.36	.48	.41	.35	.47	.40	.35	.45	.39	.35	.33														
8.0	.46	.38	.32	.46	.37	.32	.44	.37	.32	.43	.36	.31	.42	.36	.31	.29														
9.0	.43	.34	.29	.42	.34	.29	.41	.34	.28	.40	.33	.28	.39	.33	.28	.26														
10.0	.39	.31	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.25	.24														



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

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

LUMINAIRE PHOTOMETRIC TEST REPORT

WEC AND CCEC

Report number:

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

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

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

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

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

LUMINAIRE PHOTOMETRIC TEST REPORT

Uncorrected UGR Table

Report number:

MANUFACTURER: SGSLIGHT LIMITED					Address:					
NAME: LED PANEL					TYPE:			WEIGHT:		
SPECIFICATION:TLP-F-3012N-72					DIMENSION: 296X1196X11MM SERIAL No.:					
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	19.5	21.0	19.7	21.2	21.4	20.4	21.9	20.7	22.1	22.3
3H	21.0	22.4	21.3	22.7	22.9	22.4	23.8	22.7	24.0	24.3
4H	21.7	23.0	22.0	23.3	23.6	23.3	24.6	23.6	24.9	25.2
6H	22.2	23.4	22.5	23.7	24.0	24.1	25.4	24.5	25.7	26.0
8H	22.3	23.5	22.7	23.8	24.1	24.5	25.8	24.9	26.0	26.4
12H	22.4	23.6	22.7	23.9	24.2	24.9	26.1	25.3	26.4	26.7
4H 2H	20.3	21.7	20.7	21.9	22.2	21.0	22.4	21.3	22.6	22.9
3H	22.1	23.3	22.5	23.6	23.9	23.2	24.4	23.6	24.7	25.0
4H	22.9	24.0	23.3	24.3	24.7	24.3	25.4	24.7	25.7	26.0
6H	23.5	24.5	23.9	24.8	25.2	25.3	26.3	25.7	26.6	27.0
8H	23.7	24.6	24.2	25.0	25.4	25.8	26.7	26.2	27.1	27.5
12H	23.9	24.7	24.3	25.1	25.5	26.3	27.1	26.7	27.5	27.9
8H 4H	23.4	24.3	23.9	24.7	25.1	24.6	25.5	25.0	25.9	26.3
6H	24.3	25.0	24.7	25.4	25.9	25.9	26.6	26.3	27.0	27.4
8H	24.6	25.2	25.1	25.7	26.1	26.5	27.1	27.0	27.6	28.0
12H	24.8	25.4	25.3	25.8	26.3	27.2	27.7	27.6	28.2	28.7
12H 4H	23.5	24.3	24.0	24.7	25.2	24.6	25.4	25.1	25.8	26.3
6H	24.4	25.1	24.9	25.5	26.0	25.9	26.6	26.4	27.0	27.5
8H	24.8	25.4	25.3	25.9	26.4	26.6	27.2	27.1	27.7	28.2
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.4					+ 0.2 / - 0.3				

CIE Pub.117 Corrected 6349 lm Total Lamp Luminous Flux. (8log(F/F0) = 6.4)

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

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

LUMINAIRE PHOTOMETRIC TEST REPORT

UTILIZATION FACTORS TABLE

Report number:

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

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

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

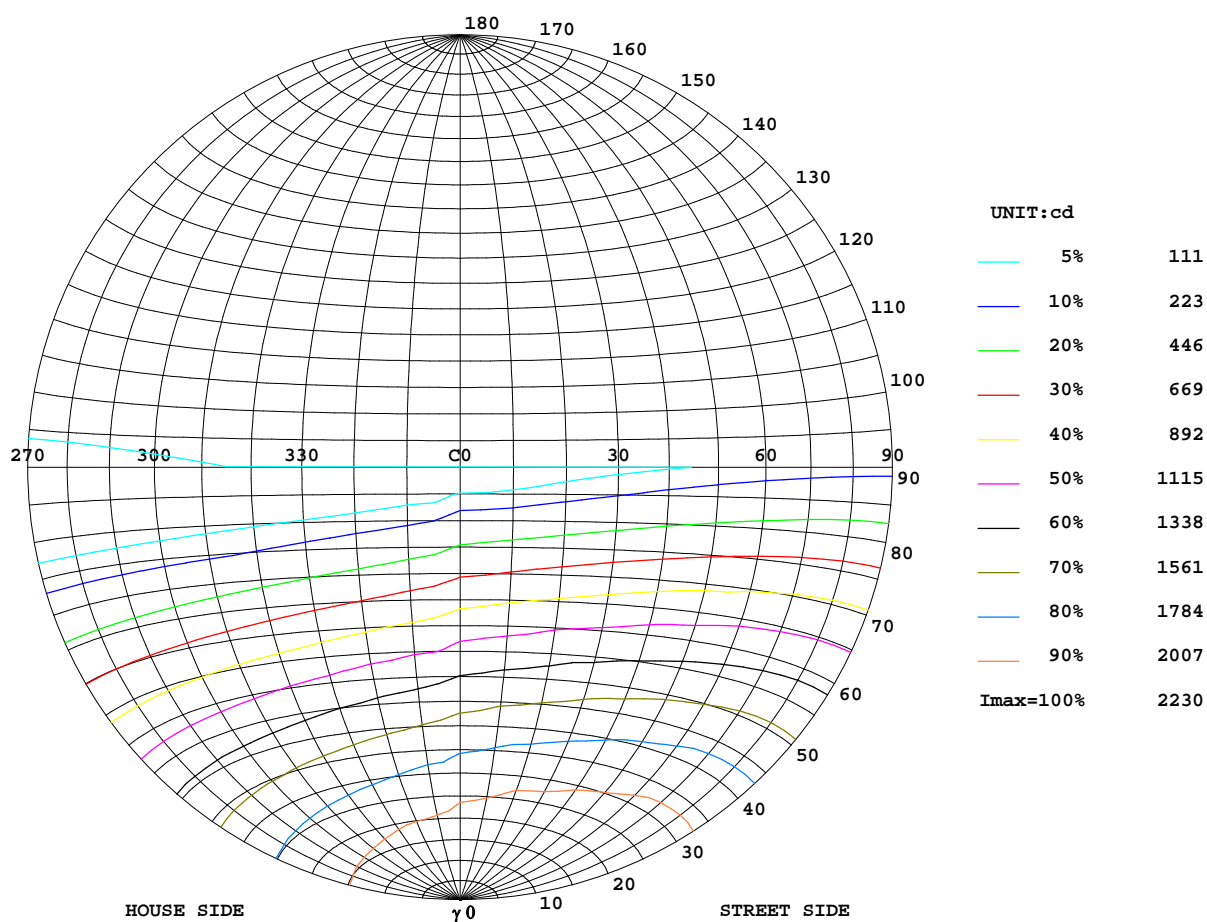
Test Set: 8.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

ISOCANDELA DIAGRAM

Report number:

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



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

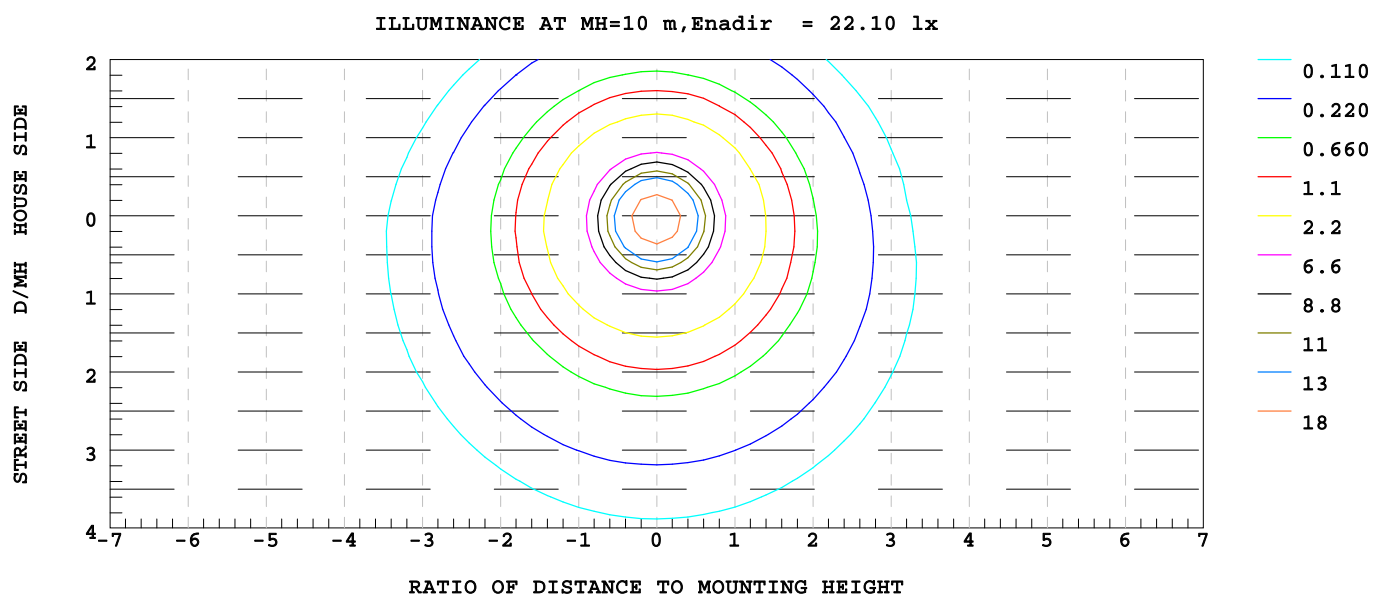
Test Set: 8.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

ISOLUX DIAGRAM

Report number:

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



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

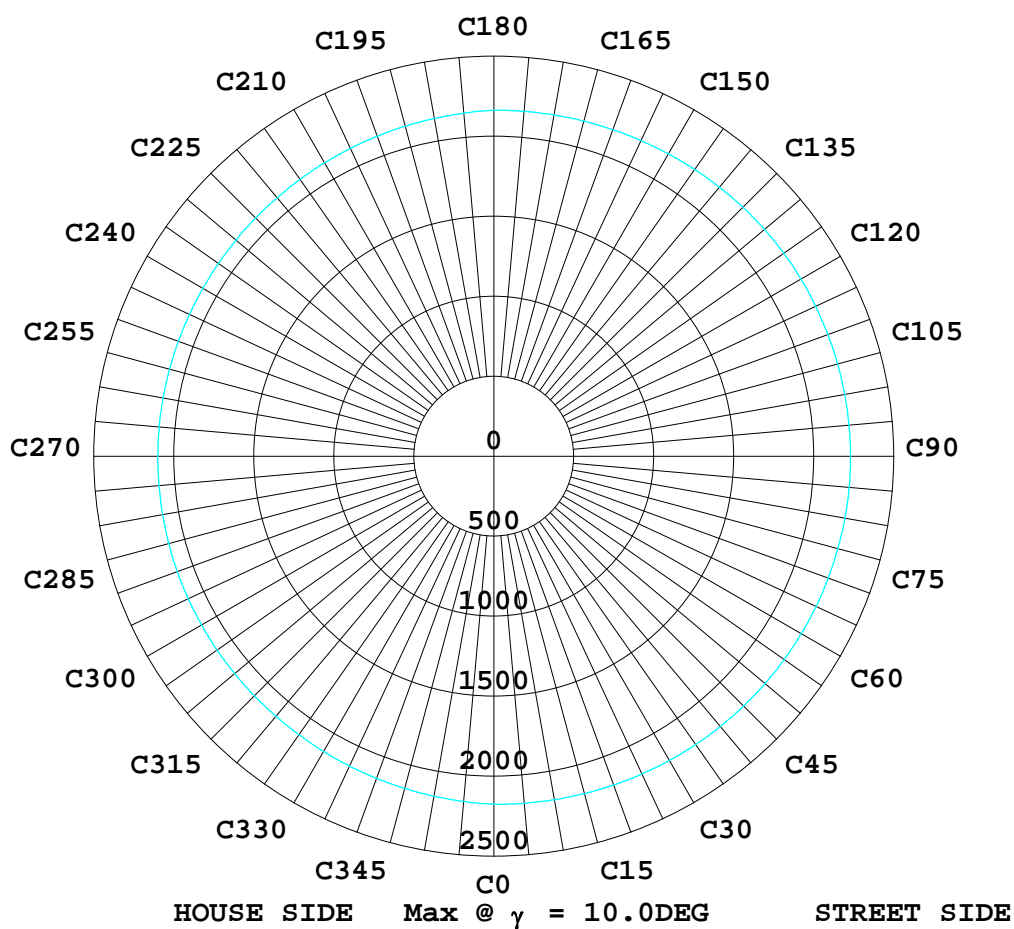
Test Set: 8.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

ISOCANDELA DIAGRAM

Report number:

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



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

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

LUMINAIRE PHOTOMETRIC TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

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

UNIT: cd

γ (DEG)	C(DEG)														
	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70
0.0	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210
5.0	2200	2201	2202	2203	2205	2206	2208	2210	2212	2213	2215	2216	2217	2218	2219
10.0	2175	2177	2180	2183	2187	2191	2195	2200	2204	2207	2212	2215	2218	2222	2224
15.0	2127	2131	2136	2143	2151	2159	2169	2178	2187	2191	2194	2196	2198	2201	2202
20.0	2063	2068	2075	2085	2097	2111	2123	2128	2134	2140	2147	2155	2160	2168	2174
25.0	1978	1988	2000	2016	2031	2041	2047	2056	2067	2080	2093	2099	2105	2110	2115
30.0	1882	1893	1908	1928	1945	1951	1961	1976	1989	1999	2009	2019	2030	2039	2047
35.0	1765	1777	1797	1822	1829	1842	1861	1873	1885	1902	1918	1936	1942	1948	1953
40.0	1633	1647	1670	1685	1701	1722	1737	1755	1776	1795	1805	1816	1828	1839	1848
45.0	1494	1510	1536	1547	1568	1584	1605	1632	1644	1659	1676	1695	1706	1713	1719
50.0	1341	1359	1384	1398	1419	1441	1467	1480	1499	1520	1531	1545	1557	1569	1579
55.0	1175	1207	1236	1239	1275	1289	1303	1327	1342	1358	1375	1393	1407	1416	1425
60.0	994	1023	1019	1069	1099	1118	1136	1154	1176	1212	1210	1225	1239	1253	1265
65.0	825	845	869	893	911	934	956	979	996	1016	1036	1048	1066	1076	1087
70.0	645	657	680	703	725	749	770	792	814	831	847	858	877	890	901
75.0	459	477	495	516	535	557	581	599	619	639	656	673	686	699	709
80.0	284	299	314	331	350	369	389	410	430	448	465	480	494	506	516
85.0	119	121	136	154	179	198	216	235	254	273	289	304	317	329	339
90.0	7.08	2.21	13.3	28.0	44.3	59.8	74.0	87.1	100	113	126	137	147	156	164
95.0	0.00	0.00	0.00	0.00	0.00	0.00	0.81	11.9	22.8	33.6	44.1	53.7	62.6	70.4	77.1
100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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

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

LUMINAIRE PHOTOMETRIC TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

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

UNIT: cd

γ (DEG)	C (DEG)														
	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145
0.0	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210
5.0	2219	2219	2220	2220	2220	2219	2218	2218	2217	2215	2214	2212	2210	2209	2207
10.0	2226	2228	2230	2230	2228	2227	2225	2222	2219	2217	2212	2207	2202	2195	2189
15.0	2204	2206	2207	2207	2206	2204	2201	2200	2195	2190	2182	2174	2169	2163	2154
20.0	2179	2182	2184	2184	2184	2180	2175	2168	2159	2149	2138	2129	2120	2109	2102
25.0	2119	2121	2122	2121	2120	2116	2111	2105	2099	2091	2086	2074	2058	2041	2026
30.0	2054	2058	2060	2059	2055	2050	2042	2033	2021	2009	1997	1985	1974	1966	1945
35.0	1958	1961	1963	1962	1958	1953	1946	1937	1927	1918	1907	1889	1871	1855	1841
40.0	1855	1860	1864	1865	1861	1854	1844	1832	1819	1805	1789	1773	1759	1738	1717
45.0	1724	1726	1728	1728	1725	1720	1713	1704	1696	1684	1665	1644	1622	1605	1584
50.0	1586	1590	1591	1591	1589	1583	1575	1564	1551	1536	1519	1500	1489	1459	1433
55.0	1432	1436	1437	1437	1435	1430	1422	1412	1399	1386	1370	1347	1325	1303	1282
60.0	1273	1280	1283	1283	1280	1275	1266	1260	1239	1223	1203	1183	1161	1137	1108
65.0	1093	1099	1101	1101	1099	1094	1088	1086	1066	1052	1038	1014	988	949	939
70.0	909	916	919	920	917	912	905	895	881	867	849	831	809	788	759
75.0	717	723	726	727	725	721	714	705	693	679	664	644	625	600	576
80.0	525	530	534	535	533	529	523	515	504	491	476	458	436	414	388
85.0	347	352	356	357	356	352	347	339	329	317	302	284	261	236	207
90.0	170	175	178	179	179	176	172	166	158	149	136	121	105	87.2	69.9
95.0	82.6	86.5	89.0	90.0	89.2	87.0	83.2	77.9	71.4	63.3	53.4	42.8	31.4	20.0	9.53
100.0	0.00	0.00	0.10	0.76	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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

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

LUMINAIRE PHOTOMETRIC TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

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

UNIT: cd

γ (DEG)	C (DEG)														
	150	155	160	165	170	175	180	185	190	195	200	205	210	215	220
0.0	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210
5.0	2206	2205	2203	2202	2201	2200	2199	2194	2189	2185	2180	2176	2173	2169	2166
10.0	2183	2177	2173	2169	2166	2164	2162	2153	2144	2136	2129	2123	2118	2113	2109
15.0	2145	2136	2128	2120	2113	2108	2105	2091	2080	2069	2061	2054	2048	2043	2039
20.0	2094	2080	2064	2052	2044	2038	2034	2016	2000	1988	1978	1970	1964	1951	1939
25.0	2013	2002	1989	1972	1958	1948	1942	1920	1902	1887	1878	1867	1850	1835	1825
30.0	1925	1906	1892	1871	1854	1841	1835	1811	1791	1776	1763	1745	1732	1721	1710
35.0	1824	1798	1775	1760	1737	1722	1716	1688	1670	1658	1632	1614	1604	1589	1573
40.0	1697	1680	1653	1631	1611	1590	1578	1549	1530	1508	1487	1472	1453	1437	1426
45.0	1556	1537	1517	1489	1467	1441	1428	1396	1377	1353	1335	1314	1296	1284	1266
50.0	1411	1384	1365	1339	1314	1283	1264	1233	1213	1186	1163	1148	1133	1112	1097
55.0	1251	1225	1204	1181	1143	1116	1094	1049	1037	1019	996	977	953	940	922
60.0	1090	1059	999	998	968	941	915	886	857	834	819	795	777	758	743
65.0	911	884	851	822	790	760	733	705	672	656	631	613	595	577	560
70.0	730	702	669	635	605	570	541	512	491	468	450	435	416	396	380
75.0	548	517	487	448	415	383	349	328	309	291	279	261	247	235	221
80.0	360	330	299	264	228	196	184	155	142	135	128	119	108	100	92.1
85.0	178	158	131	108	75.9	47.1	24.8	31.4	33.0	33.0	26.1	16.1	5.34	7.72	9.70
90.0	52.6	35.7	19.9	6.07	1.13	0.70	0.44	0.00	0.00	0.00	0.06	0.25	0.51	0.70	0.76
95.0	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.35	0.55	0.73	0.91	1.13	1.24
100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.61	0.72	0.93	1.11	1.39	1.57	1.73
105.0	0.00	0.00	0.00	0.00	0.00	0.00	1.70	1.36	1.15	1.55	1.65	1.68	1.92	2.13	2.29
110.0	0.00	0.00	0.00	0.00	0.00	0.00	2.90	2.52	1.93	2.25	2.44	2.34	2.51	2.73	2.87
115.0	0.00	0.00	0.00	0.00	0.00	0.00	3.66	3.29	2.65	2.78	2.92	3.10	3.20	3.31	3.55
120.0	0.00	0.00	0.00	0.00	0.00	0.00	3.92	3.78	3.77	3.64	3.69	3.82	3.88	3.96	4.12
125.0	0.00	0.00	0.00	0.00	0.00	0.00	5.24	4.88	4.55	4.59	4.66	4.56	4.61	4.66	4.72
130.0	0.00	0.00	0.00	0.00	0.00	0.00	6.44	6.07	5.71	5.55	5.53	5.62	5.47	5.39	5.47
135.0	0.00	0.00	0.00	0.00	0.00	0.00	7.08	6.85	6.83	6.54	6.37	6.33	6.03	6.14	5.89
140.0	0.00	0.00	0.00	0.00	0.00	0.00	8.22	7.87	7.53	7.21	6.90	7.06	6.77	6.51	6.67
145.0	0.00	0.00	0.00	0.00	0.00	0.00	8.78	8.48	8.17	7.87	7.59	7.32	7.52	7.28	7.47
150.0	0.00	0.00	0.00	0.00	0.00	0.00	9.35	9.08	8.81	8.55	8.29	8.54	8.29	8.07	8.30
155.0	0.00	0.00	0.00	0.00	0.00	0.00	9.92	9.69	9.45	9.23	9.31	9.29	9.08	8.93	8.76
160.0	0.00	0.00	0.00	0.00	0.00	0.00	10.5	10.3	10.1	9.98	9.79	9.61	9.45	9.65	9.63
165.0	0.00	0.00	0.00	0.00	0.00	0.00	11.1	10.9	10.8	10.6	10.5	10.3	10.2	10.5	10.5
170.0	0.00	0.00	0.00	0.00	0.00	0.00	11.6	11.5	11.4	11.3	11.2	11.1	11.2	11.4	11.2
175.0	0.00	0.00	0.00	0.00	0.00	0.00	11.7	11.7	11.6	11.6	11.5	11.5	11.4	11.4	11.3
180.0	0.00	0.00	0.00	0.00	0.00	0.00	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8

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

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

LUMINAIRE PHOTOMETRIC TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

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

UNIT: cd

γ (DEG)	C (DEG)														
	225	230	235	240	245	250	255	260	265	270	275	280	285	290	295
0.0	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210
5.0	2164	2162	2160	2159	2158	2157	2156	2156	2155	2155	2155	2156	2157	2159	2160
10.0	2107	2104	2102	2100	2099	2099	2099	2099	2100	2100	2101	2102	2104	2106	2108
15.0	2032	2025	2018	2013	2010	2008	2006	2004	2003	2002	2004	2009	2013	2018	2023
20.0	1931	1924	1918	1913	1909	1908	1911	1909	1907	1904	1908	1915	1919	1923	1928
25.0	1821	1815	1810	1802	1795	1790	1790	1790	1789	1788	1791	1797	1801	1808	1815
30.0	1692	1684	1679	1673	1670	1667	1667	1668	1669	1671	1673	1675	1679	1684	1690
35.0	1560	1552	1548	1538	1530	1523	1519	1519	1519	1521	1524	1527	1533	1541	1549
40.0	1416	1406	1392	1384	1377	1371	1367	1368	1368	1371	1373	1376	1382	1388	1394
45.0	1252	1240	1243	1226	1216	1209	1202	1201	1200	1202	1204	1208	1216	1223	1233
50.0	1087	1073	1061	1052	1044	1038	1034	1033	1031	1032	1035	1039	1046	1053	1062
55.0	908	896	887	876	865	858	852	849	848	848	851	856	864	873	885
60.0	730	714	700	689	679	672	667	664	663	664	667	672	679	688	700
65.0	544	529	516	507	499	493	488	485	484	484	487	492	498	507	518
70.0	368	356	345	334	324	316	310	306	305	304	307	311	318	327	338
75.0	206	195	190	184	179	175	172	170	169	170	171	174	178	184	190
80.0	83.1	74.4	66.0	57.9	50.4	44.2	39.4	36.2	34.6	34.7	36.3	39.4	44.3	50.6	58.3
85.0	11.3	12.6	13.8	14.5	15.1	15.6	16.2	16.7	17.3	17.8	18.2	18.5	18.8	19.1	19.2
90.0	0.82	0.82	0.82	0.82	0.82	0.89	0.89	0.89	0.95	1.01	1.07	1.13	1.13	1.13	1.13
95.0	1.32	1.35	1.36	1.36	1.37	1.45	1.47	1.49	1.55	1.61	1.67	1.71	1.75	1.77	1.76
100.0	1.87	1.88	1.89	1.91	1.93	2.02	2.06	2.10	2.15	2.21	2.28	2.29	2.38	2.41	2.39
105.0	2.39	2.40	2.42	2.45	2.48	2.59	2.64	2.71	2.75	2.81	2.88	2.87	3.00	3.02	3.01
110.0	2.95	2.91	2.94	2.98	3.11	3.16	3.23	3.32	3.35	3.41	3.48	3.44	3.61	3.61	3.66
115.0	3.56	3.59	3.44	3.68	3.74	3.72	3.81	3.92	3.96	4.01	4.08	4.02	4.23	4.20	4.30
120.0	4.04	4.09	4.15	4.23	4.31	4.27	4.40	4.60	4.56	4.61	4.69	4.59	4.84	4.89	4.90
125.0	4.78	4.57	4.66	4.76	4.92	4.99	5.14	5.32	5.16	5.21	5.29	5.16	5.45	5.54	5.62
130.0	5.23	5.33	5.44	5.56	5.48	5.63	5.80	5.92	5.76	5.81	5.89	5.80	5.91	6.15	6.07
135.0	6.01	6.12	5.97	6.11	6.02	6.20	6.41	6.41	6.36	6.41	6.49	6.52	6.37	6.75	6.78
140.0	6.81	6.61	6.78	6.68	6.88	6.87	7.00	7.00	6.96	7.01	7.09	6.98	6.93	7.35	7.47
145.0	7.29	7.46	7.35	7.32	7.44	7.69	7.76	7.60	7.57	7.61	7.69	7.52	7.50	7.69	8.05
150.0	8.12	7.99	7.97	8.10	8.30	8.27	8.39	8.20	8.19	8.22	8.29	8.32	8.24	8.14	8.63
155.0	8.59	8.89	8.74	8.97	8.94	9.14	8.84	8.79	8.82	8.82	8.89	8.92	8.72	8.68	8.77
160.0	9.48	9.49	9.70	9.59	9.81	9.49	9.43	9.39	9.42	9.42	9.47	9.51	9.53	9.50	9.30
165.0	10.4	10.3	10.4	10.3	10.1	10.0	10.0	10.0	10.0	10.0	10.0	10.1	10.1	10.1	9.94
170.0	10.9	10.8	10.7	10.7	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.7	10.7	10.7
175.0	11.3	11.3	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.3	11.3
180.0	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8

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

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

LUMINAIRE PHOTOMETRIC TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

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

UNIT: cd

C(DEG)\ γ (DEG)	300	305	310	315	320	325	330	335	340	345	350	355
0.0	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210
5.0	2162	2165	2167	2169	2171	2174	2177	2180	2183	2187	2191	2195
10.0	2109	2112	2115	2118	2121	2125	2130	2136	2142	2150	2157	2166
15.0	2029	2035	2044	2052	2061	2066	2072	2077	2084	2093	2103	2114
20.0	1934	1941	1948	1957	1968	1980	1995	2003	2010	2019	2031	2046
25.0	1825	1835	1846	1853	1860	1873	1889	1908	1921	1930	1943	1959
30.0	1696	1704	1715	1730	1746	1760	1774	1791	1812	1827	1840	1859
35.0	1558	1574	1585	1597	1613	1630	1651	1664	1683	1708	1721	1739
40.0	1405	1420	1436	1456	1470	1486	1505	1529	1545	1569	1593	1609
45.0	1248	1262	1275	1292	1313	1336	1352	1372	1399	1420	1450	1466
50.0	1075	1089	1106	1127	1145	1164	1199	1211	1235	1261	1292	1313
55.0	900	915	929	947	965	993	1015	1044	1065	1094	1109	1151
60.0	713	729	747	766	786	808	833	860	892	915	945	975
65.0	530	544	561	579	600	624	647	674	702	735	769	797
70.0	351	366	382	399	417	439	463	487	516	546	577	612
75.0	197	205	213	228	248	267	288	309	333	363	395	427
80.0	67.1	77.0	87.7	98.7	110	121	133	156	173	194	220	250
85.0	19.5	19.7	19.9	20.2	20.5	20.0	18.9	31.4	44.9	57.9	70.5	87.2
90.0	1.13	1.07	1.01	1.07	1.13	1.01	0.82	0.57	0.44	0.25	0.13	0.13
95.0	1.75	1.69	1.67	1.65	1.62	1.47	1.28	1.04	0.78	0.54	0.45	0.00
100.0	2.37	2.30	2.30	2.22	2.11	1.96	1.80	1.54	1.35	0.81	0.83	0.87
105.0	2.99	2.90	2.90	2.96	2.75	2.61	2.25	2.18	2.00	1.83	1.10	1.21
110.0	3.72	3.55	3.48	3.59	3.49	3.11	2.86	2.84	2.76	2.62	2.59	2.42
115.0	4.35	4.17	4.11	4.36	4.04	3.87	3.73	3.43	3.47	3.45	3.32	3.61
120.0	4.97	4.91	4.81	4.79	4.98	4.78	4.37	4.39	4.04	3.97	4.34	4.44
125.0	5.57	5.74	5.58	5.48	5.57	5.81	5.55	5.25	5.04	5.35	5.03	5.22
130.0	6.22	6.33	6.25	6.18	6.08	6.35	6.62	6.29	6.63	6.33	6.10	6.45
135.0	6.86	6.91	7.11	7.02	6.94	7.01	7.09	7.74	7.75	8.10	7.66	8.06
140.0	7.34	7.51	7.65	7.88	7.76	7.90	7.87	7.92	8.09	8.44	8.94	9.60
145.0	8.19	8.11	8.23	8.38	8.62	8.88	8.73	8.70	9.00	9.14	9.47	9.82
150.0	8.75	8.90	8.72	9.02	9.12	9.29	9.54	9.82	10.0	9.96	10.1	10.5
155.0	9.30	9.43	9.58	9.60	9.54	10.0	9.95	10.1	10.3	10.5	10.8	11.1
160.0	9.39	9.63	10.0	10.2	10.3	10.5	10.6	10.4	10.6	10.9	11.3	11.6
165.0	10.1	9.97	10.0	10.1	10.4	10.9	11.0	11.1	11.3	11.4	11.6	11.7
170.0	10.8	10.5	10.6	11.0	10.8	10.7	10.8	10.8	10.9	11.0	11.1	11.2
175.0	11.3	11.3	11.4	11.4	11.5	11.5	11.5	11.6	11.6	11.7	11.7	11.8
180.0	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8

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

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