

LUMINAIRE PHOTOMETRIC TEST REPORT

LAMP PHOTOMETRIC REPORT

MODEL: TLP-F-3012N-40

POWER: 40W

VOLTAGE: 230V

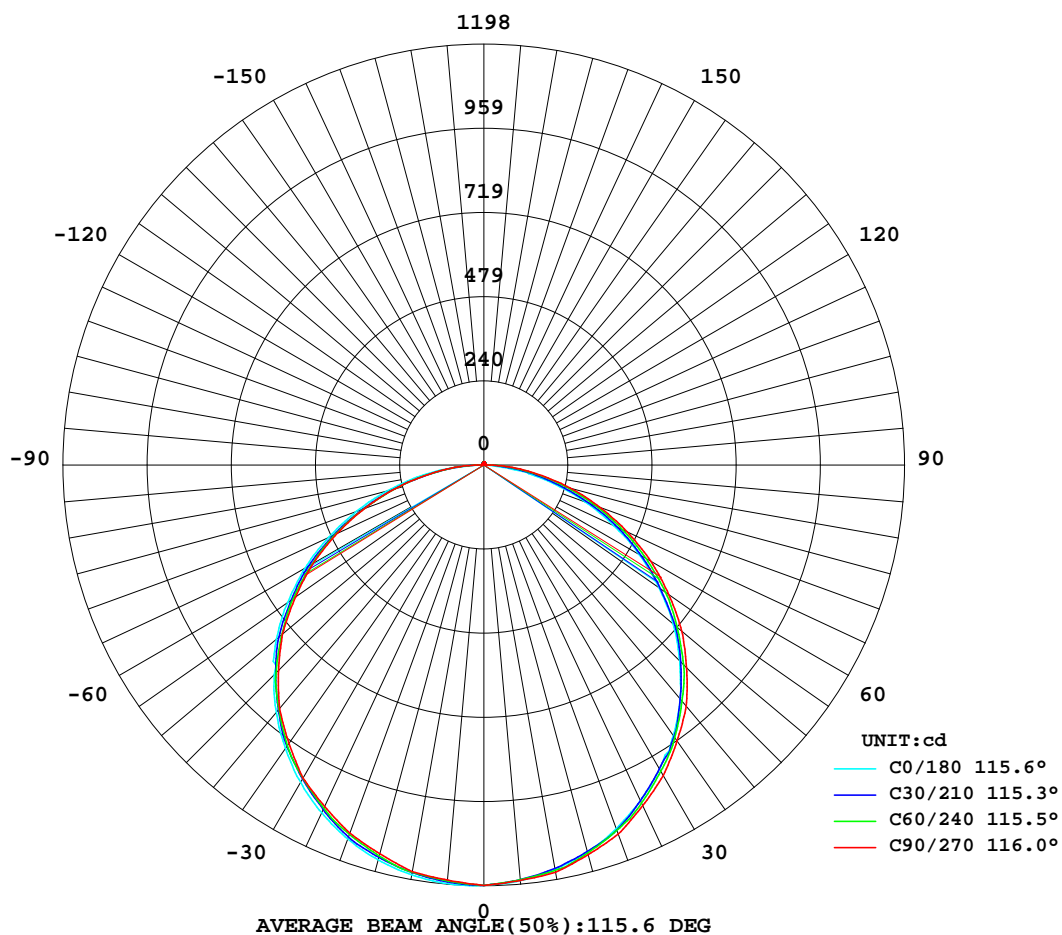
WORKING VOLTAGE: 219.0V

MANUFACTURER: SGSLIGHT LIMITED

TOTAL FLUX: 3564.6 lm

Efficiency: 88.300 lm/W

Test: U: 230.0V I: 0.185A P: 40.36W PF: 0.940



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

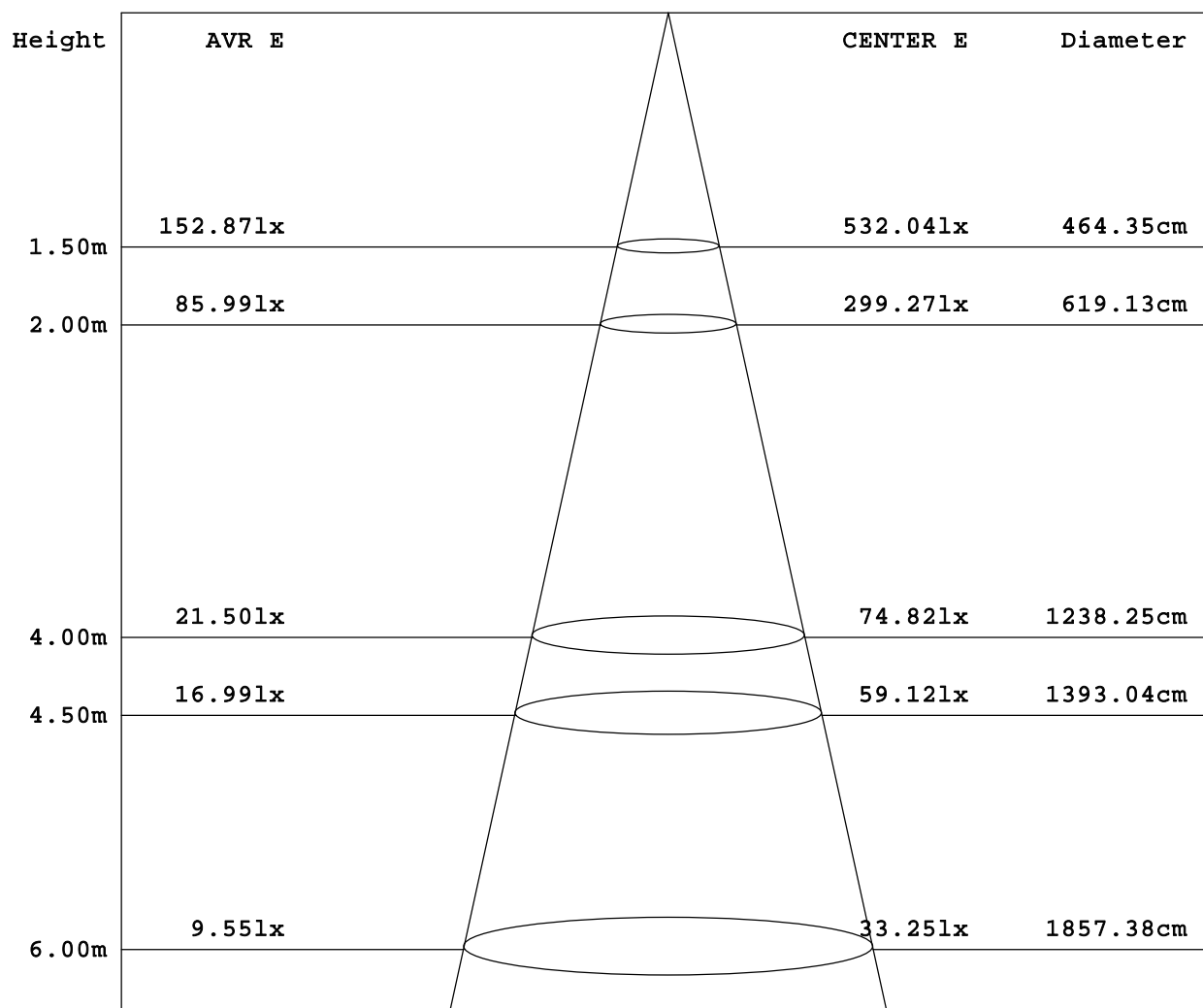
Test Set: 7.0deg/s B-Beta (TYPE B)
Humidity:65.0%
Test Distance:7.000 m
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

AVERAGE AND CENTER E Figure

Report number:

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



Angle:114.3deg

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

ZONAL FLUX DIAGRAM

Report number:

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

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	zone	total
5.0	1197	1190	1187	1185	1188	1185	1188	1191	0- 5	28.49	28.49
10.0	1185	1178	1176	1167	1168	1169	1178	1179	5- 10	84.50	112.9
15.0	1164	1157	1146	1143	1141	1144	1149	1160	10- 15	137.8	250.8
20.0	1133	1121	1116	1103	1103	1104	1119	1125	15- 20	186.5	437.3
25.0	1093	1082	1073	1059	1055	1059	1071	1086	20- 25	229.3	666.6
30.0	1044	1032	1030	1006	1000	1003	1022	1036	25- 30	264.6	931.3
35.0	985.6	977.8	967.8	947.8	940.9	940.1	959.5	977.0	30- 35	291.9	1223
40.0	920.0	917.1	905.5	885.6	869.7	873.3	897.1	914.2	35- 40	309.8	1533
45.0	844.6	839.6	827.0	808.3	788.9	794.6	816.7	837.1	40- 45	317.6	1851
50.0	771.2	759.0	748.5	728.3	704.1	713.0	736.3	757.7	45- 50	314.8	2166
55.0	681.1	665.2	654.9	639.8	608.7	621.3	643.0	662.9	50- 55	301.3	2467
60.0	587.9	570.3	561.2	550.3	512.3	529.5	549.7	567.3	55- 60	277.2	2744
65.0	486.7	468.5	460.7	450.2	408.2	427.6	450.0	467.4	60- 65	244.3	2989
70.0	386.1	365.2	360.2	351.1	306.7	328.8	350.2	365.5	65- 70	203.3	3192
75.0	284.8	259.9	262.0	255.0	206.3	233.5	254.7	260.6	70- 75	157.5	3349
80.0	185.4	164.9	163.9	160.7	126.9	143.6	159.2	167.2	75- 80	109.3	3459
85.0	87.14	79.47	83.25	76.35	16.75	66.19	81.23	82.92	80- 85	61.65	3520
90.0	7.235	2.819	2.606	5.107	3.564	3.404	3.192	6.437	85- 90	20.25	3541
95.0	3.511	3.157	2.979	3.896	2.660	3.563	3.378	4.376	90- 95	1.919	3543
100.0	4.468	3.490	3.351	2.778	2.234	3.767	3.564	2.321	95-100	1.748	3544
105.0	4.415	3.813	3.724	1.903	2.660	3.956	3.750	0.308	100-105	1.568	3546
110.0	4.894	4.156	4.096	1.302	3.138	4.110	3.936	0	105-110	1.451	3547
115.0	5.320	4.543	4.468	1.199	3.670	4.240	4.123	0	110-115	1.447	3549
120.0	5.798	4.853	4.841	1.531	4.202	4.395	4.309	0	115-120	1.479	3550
125.0	6.224	5.239	5.213	2.261	4.309	4.725	4.495	0	120-125	1.512	3552
130.0	6.703	5.843	5.586	3.321	3.936	4.668	4.681	0	125-130	1.527	3553
135.0	7.128	5.916	5.958	4.594	5.320	4.992	4.867	0	130-135	1.542	3555
140.0	7.554	6.500	6.330	6.019	5.745	5.138	5.054	0	135-140	1.540	3556
145.0	7.554	7.062	6.703	6.851	6.171	5.562	5.240	0	140-145	1.527	3558
150.0	7.980	7.348	7.075	7.709	6.118	5.716	5.426	0	145-150	1.510	3559
155.0	8.884	7.622	7.448	7.622	5.639	5.864	5.612	0	150-155	1.420	3561
160.0	8.884	8.235	7.820	7.886	6.543	6.006	5.798	0.428	155-160	1.259	3562
165.0	9.310	8.511	8.192	8.511	6.543	6.144	5.985	2.794	160-165	1.043	3563
170.0	9.310	8.780	8.565	8.780	6.543	6.279	6.171	4.707	165-170	0.813	3564
175.0	9.310	9.046	8.937	9.046	6.543	6.411	6.357	6.005	170-175	0.530	3565
180.0	9.310	9.310	9.310	9.310	6.543	6.543	6.543	6.543	175-180	0.185	3565
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:

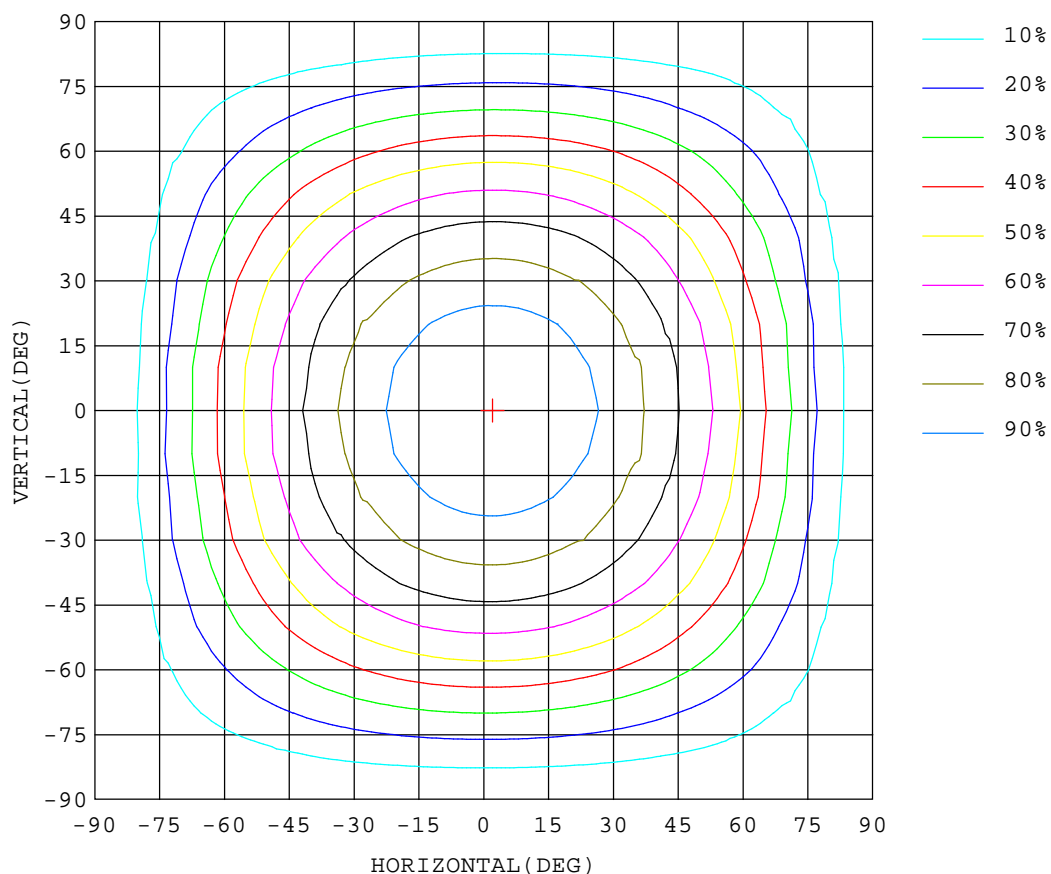
LUMINAIRE PHOTOMETRIC TEST REPORT

ISOCANDELA DIAGRAM

Report number:

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

UNIT: cd



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

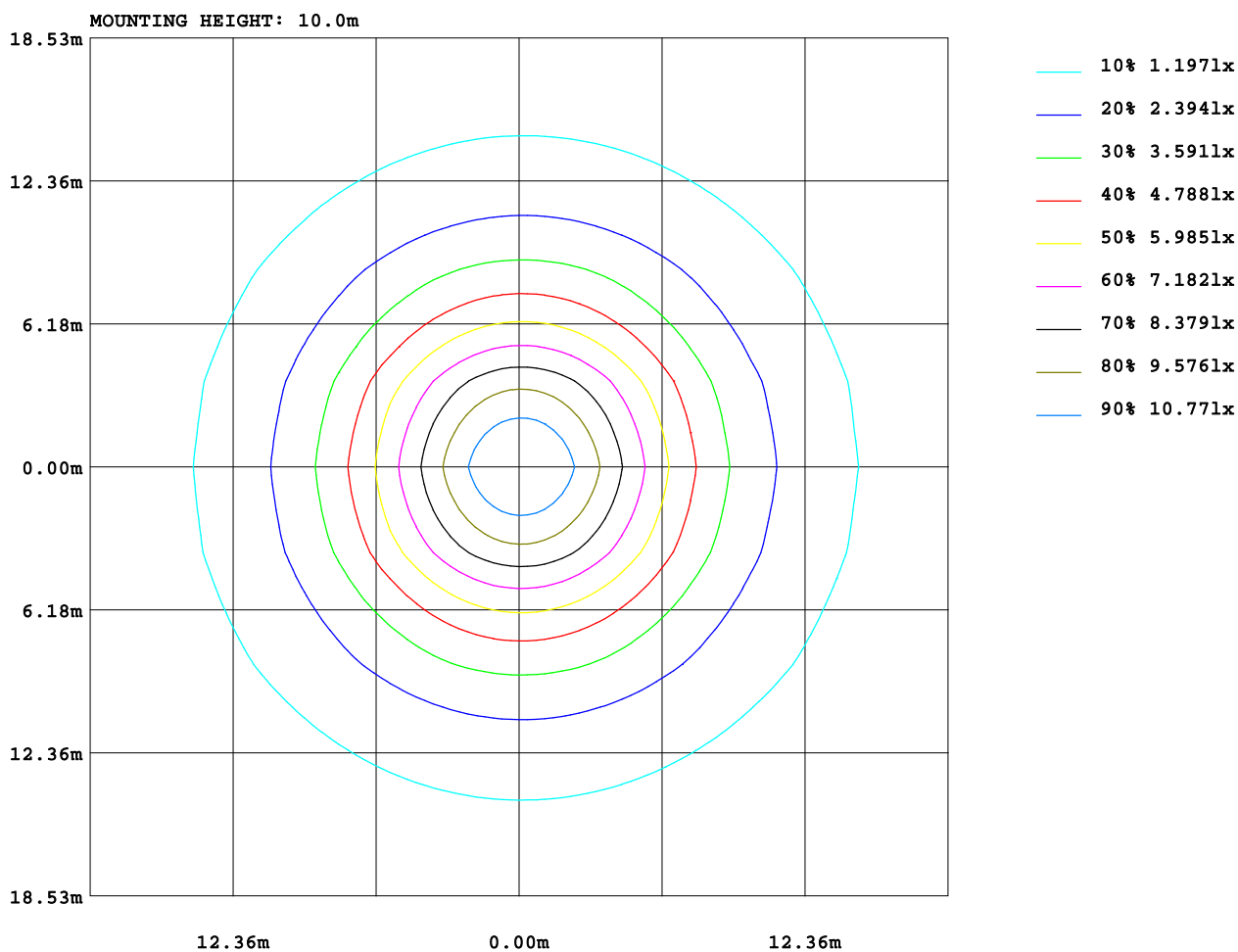
Test Set: 7.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

ISOLUX DIAGRAM

Report number:

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



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

AREA LUMINOUS FLUX

Report number:

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

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a						
	0.01	0.02	0.04	0.06	0.07	0.08	0.08	0.09	0.09	0.10	0.13	0.18	0.19	0.17	0.12	0.06	0.03	0.01	1.53	1.53						
90	0.01	0.02	0.04	0.06	0.07	0.08	0.08	0.09	0.09	0.10	0.13	0.18	0.19	0.17	0.12	0.06	0.03	0.01	1.53	1.53						
80	0.01	0.20	0.80	1.74	2.96	4.28	5.51	6.48	7.08	7.21	6.84	6.02	4.90	3.63	2.35	1.25	0.45	0.05	61.8	61.8						
70	0.03	0.52	1.76	3.63	5.93	8.36	10.6	12.3	13.3	13.4	12.6	11.1	8.95	6.52	4.15	2.16	0.76	0.08	117	117						
60	0.04	0.73	2.52	5.24	8.64	12.2	15.4	18.0	19.4	19.6	18.5	16.3	13.3	9.78	6.29	3.32	1.18	0.15	171	171						
50	0.08	1.08	3.50	7.10	11.4	15.9	20.0	23.1	24.9	25.0	23.6	20.7	16.8	12.3	7.91	4.10	1.45	0.16	220	220						
40	0.08	1.27	4.09	8.37	13.5	18.8	23.6	27.2	29.3	29.5	27.9	24.6	20.1	14.9	9.70	5.13	1.88	0.24	261	261						
30	0.12	1.56	4.85	9.69	15.4	21.2	26.3	30.3	32.5	32.7	30.9	27.4	22.3	16.5	10.6	5.57	1.98	0.25	291	291						
	0.11	1.63	5.11	10.3	16.4	22.8	28.3	32.6	35.0	35.3	33.3	29.3	23.9	17.8	11.7	6.25	2.30	0.30	313	313						
	0.15	1.81	5.51	10.9	17.1	23.5	29.3	33.8	36.3	36.5	34.4	30.3	24.8	18.4	11.8	6.24	2.22	0.29	324	324						
	0.15	1.71	5.36	10.7	17.1	23.6	29.2	33.7	36.2	36.5	34.4	30.3	24.7	18.3	12.1	6.45	2.38	0.32	324	324						
	0.14	1.79	5.37	10.5	16.6	22.7	28.4	32.6	35.0	35.2	33.1	29.2	23.9	17.7	11.4	5.99	2.13	0.28	313	313						
-30	0.14	1.55	4.82	9.67	15.4	21.3	26.4	30.3	32.6	32.8	30.9	27.3	22.2	16.5	10.8	5.73	2.10	0.27	291	291						
-40	0.13	1.51	4.53	8.94	14.1	19.4	24.0	27.6	29.6	29.8	28.0	24.8	20.2	14.8	9.53	4.95	1.75	0.22	265	265						
-50	0.09	1.17	3.66	7.34	11.7	16.3	20.4	23.6	25.3	25.4	24.0	21.0	17.1	12.6	8.14	4.29	1.56	0.20	224	224						
-60	0.09	0.97	3.02	5.94	9.46	13.0	16.3	18.8	20.1	20.2	18.9	16.6	13.3	9.75	6.18	3.17	1.11	0.12	177	177						
-70	0.04	0.62	2.01	4.02	6.44	9.00	11.3	13.0	14.0	14.1	13.2	11.5	9.34	6.81	4.35	2.29	0.82	0.11	123	123						
-80	0.03	0.35	1.17	2.36	3.72	5.10	6.35	7.31	7.82	7.80	7.27	6.29	5.01	3.61	2.28	1.19	0.43	0.04	68.2	68.2						
-90	0.01	0.05	0.20	0.47	0.93	1.36	1.67	1.92	2.06	2.05	1.93	1.69	1.38	1.04	0.69	0.37	0.12	0.01	17.9	17.9						
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)										20	30	40	50	60	70	80	90
Φ t	1.45	18.5	58.3	117	187	260	324	373	401	404	381	335	273	202	130	68.5	24.6	3.10	3565							
Φ a	1.45	18.5	58.3	117	187	260	324	373	401	404	381	335	273	202	130	68.5	24.6	3.10		3565						

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:

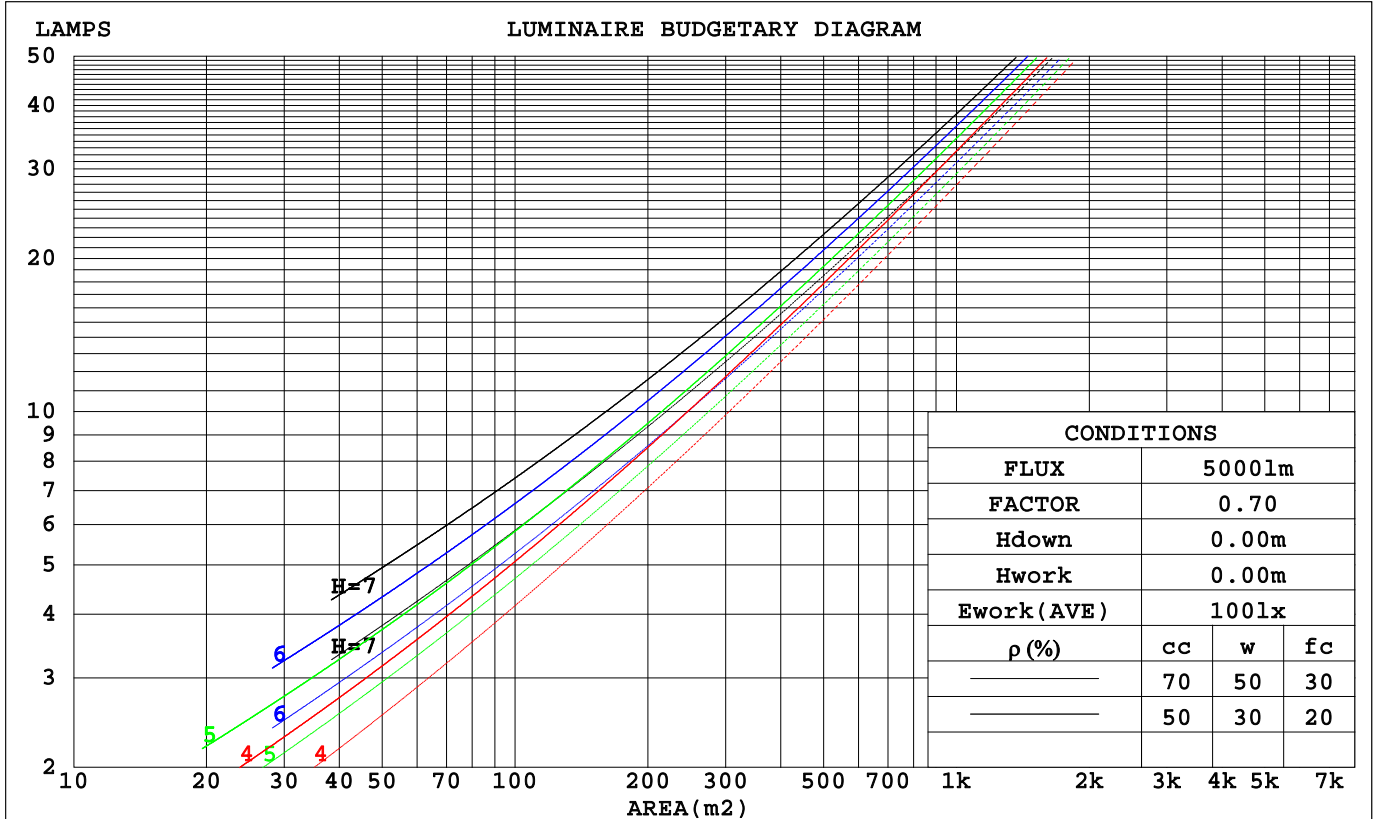
LUMINAIRE PHOTOMETRIC TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

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

ρcc	80%			70%			50%			30%			10%			0														
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%															
ρw	20%			20%			20%			20%			20%			0														
ρfc	20%			20%			20%			20%			20%																	
RCR	RCR:Room Cavity Ratio															Coefficients of Utilization(CU)														
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.01	1.01	1.01	.99														
1.0	1.03	.99	.95	1.01	.97	.93	.97	.93	.90	.93	.90	.87	.89	.87	.85	.82														
2.0	.90	.83	.77	.88	.81	.76	.84	.79	.74	.81	.76	.72	.78	.74	.70	.68														
3.0	.79	.70	.64	.77	.69	.63	.74	.67	.62	.71	.65	.61	.68	.63	.59	.57														
4.0	.69	.60	.54	.68	.60	.53	.65	.58	.52	.63	.57	.52	.61	.55	.51	.49														
5.0	.62	.53	.46	.61	.52	.46	.59	.51	.45	.56	.50	.45	.55	.49	.44	.42														
6.0	.56	.47	.40	.55	.46	.40	.53	.45	.39	.51	.44	.39	.49	.43	.39	.37														
7.0	.50	.42	.35	.50	.41	.35	.48	.40	.35	.46	.40	.35	.45	.39	.34	.32														
8.0	.46	.37	.31	.45	.37	.31	.44	.36	.31	.43	.36	.31	.41	.35	.31	.29														
9.0	.42	.34	.28	.42	.34	.28	.40	.33	.28	.39	.33	.28	.38	.32	.28	.26														
10.0	.39	.31	.26	.38	.31	.25	.37	.30	.25	.36	.30	.25	.35	.29	.25	.23														



Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:TOM CHEN
 Test Date: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

WEC AND CCEC

Report number:

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

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.318	.181	.057	.311	.177	.056	.297	.170	.054	.284	.164	.053	.273	.158	.051	
2.0	.297	.163	.050	.291	.160	.049	.279	.155	.048	.268	.150	.047	.257	.146	.046	
3.0	.274	.146	.044	.268	.144	.043	.258	.140	.042	.248	.136	.042	.239	.132	.041	
4.0	.252	.131	.039	.247	.129	.038	.238	.126	.038	.229	.123	.037	.221	.120	.037	
5.0	.233	.119	.034	.228	.117	.034	.220	.114	.034	.212	.112	.033	.205	.109	.033	
6.0	.216	.108	.031	.212	.107	.031	.204	.105	.030	.197	.102	.030	.190	.100	.030	
7.0	.200	.099	.028	.197	.098	.028	.190	.096	.028	.184	.094	.027	.178	.092	.027	
8.0	.187	.091	.026	.184	.091	.026	.178	.089	.025	.172	.087	.025	.167	.086	.025	
9.0	.175	.085	.024	.172	.084	.024	.167	.083	.023	.162	.081	.023	.157	.080	.023	
10.0	.165	.079	.022	.162	.078	.022	.157	.077	.022	.152	.076	.022	.148	.074	.021	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.196	.196	.196	.167	.167	.167	.114	.114	.114	.066	.066	.066	.021	.021	.021	
1.0	.186	.161	.139	.159	.138	.120	.109	.095	.083	.063	.055	.048	.020	.018	.016	
2.0	.178	.137	.103	.153	.118	.089	.105	.082	.062	.060	.047	.036	.019	.015	.012	
3.0	.171	.120	.079	.146	.103	.068	.100	.072	.048	.058	.042	.028	.019	.014	.009	
4.0	.163	.106	.063	.140	.092	.055	.096	.064	.039	.056	.038	.023	.018	.012	.008	
5.0	.155	.096	.052	.133	.083	.045	.092	.058	.032	.053	.034	.019	.017	.011	.006	
6.0	.148	.088	.044	.127	.076	.038	.088	.053	.027	.051	.031	.016	.016	.010	.005	
7.0	.141	.081	.038	.122	.070	.033	.084	.049	.024	.049	.029	.014	.016	.009	.005	
8.0	.135	.075	.034	.116	.065	.030	.080	.046	.021	.047	.027	.012	.015	.009	.004	
9.0	.129	.070	.030	.111	.061	.027	.077	.043	.019	.045	.025	.011	.014	.008	.004	
10.0	.123	.066	.028	.106	.057	.024	.074	.040	.017	.043	.024	.010	.014	.008	.003	

Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:TOM CHEN
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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

Uncorrected UGR Table

Report number:

MANUFACTURER: SGSLIGHT LIMITED					Address:					
NAME: LED PANEL					TYPE:			WEIGHT:		
SPECIFICATION:TLP-F-3012N-40					DIMENSION: 296X1196X11MM SERIAL No.:					
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	17.1	18.6	17.4	18.9	19.1	17.0	18.5	17.3	18.7	18.9
3H	18.8	20.2	19.1	20.4	20.7	18.6	20.0	18.9	20.2	20.5
4H	19.5	20.8	19.8	21.1	21.3	19.2	20.6	19.6	20.8	21.1
6H	20.0	21.3	20.3	21.6	21.9	19.7	21.0	20.1	21.3	21.6
8H	20.2	21.4	20.5	21.7	22.0	19.9	21.2	20.3	21.5	21.8
12H	20.3	21.5	20.7	21.8	22.1	20.1	21.3	20.4	21.6	21.9
4H 2H	17.7	19.1	18.1	19.3	19.6	17.6	19.0	17.9	19.2	19.5
3H	19.6	20.7	19.9	21.0	21.4	19.4	20.6	19.8	20.9	21.2
4H	20.4	21.5	20.8	21.8	22.1	20.2	21.3	20.6	21.6	22.0
6H	21.0	22.0	21.5	22.4	22.7	20.8	21.8	21.3	22.2	22.5
8H	21.3	22.2	21.7	22.6	23.0	21.1	22.0	21.5	22.4	22.8
12H	21.5	22.3	21.9	22.7	23.1	21.3	22.1	21.7	22.5	22.9
8H 4H	20.6	21.5	21.1	21.9	22.3	20.5	21.4	20.9	21.8	22.2
6H	21.5	22.2	21.9	22.6	23.1	21.3	22.1	21.8	22.5	22.9
8H	21.8	22.5	22.3	22.9	23.4	21.7	22.3	22.1	22.8	23.2
12H	22.1	22.6	22.5	23.1	23.6	22.0	22.5	22.4	23.0	23.5
12H 4H	20.7	21.5	21.1	21.9	22.3	20.5	21.3	21.0	21.7	22.2
6H	21.5	22.2	22.0	22.6	23.1	21.4	22.0	21.8	22.5	22.9
8H	21.9	22.5	22.4	22.9	23.4	21.8	22.3	22.3	22.8	23.3
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.3				

CIE Pub.117 Corrected 3565 lm Total Lamp Luminous Flux. (8log(F/F0) = 4.4)

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-3012N-40	DIMENSION: 296X1196X11MM SERIAL No.:	

REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	57	45	38	56	45	38	55	44	37	31
0.80	67	55	47	66	54	47	64	54	47	40
1.00	75	64	56	74	63	56	71	64	55	48
1.25	82	71	64	81	71	64	78	69	63	55
1.50	87	77	70	85	76	69	82	74	68	61
2.00	94	85	79	92	84	78	89	82	76	68
2.50	98	90	84	96	89	83	92	86	81	73
3.00	102	94	89	99	93	88	95	90	85	77
4.00	106	100	95	103	98	94	99	94	91	82
5.00	108	103	99	106	101	97	101	97	94	85
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

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

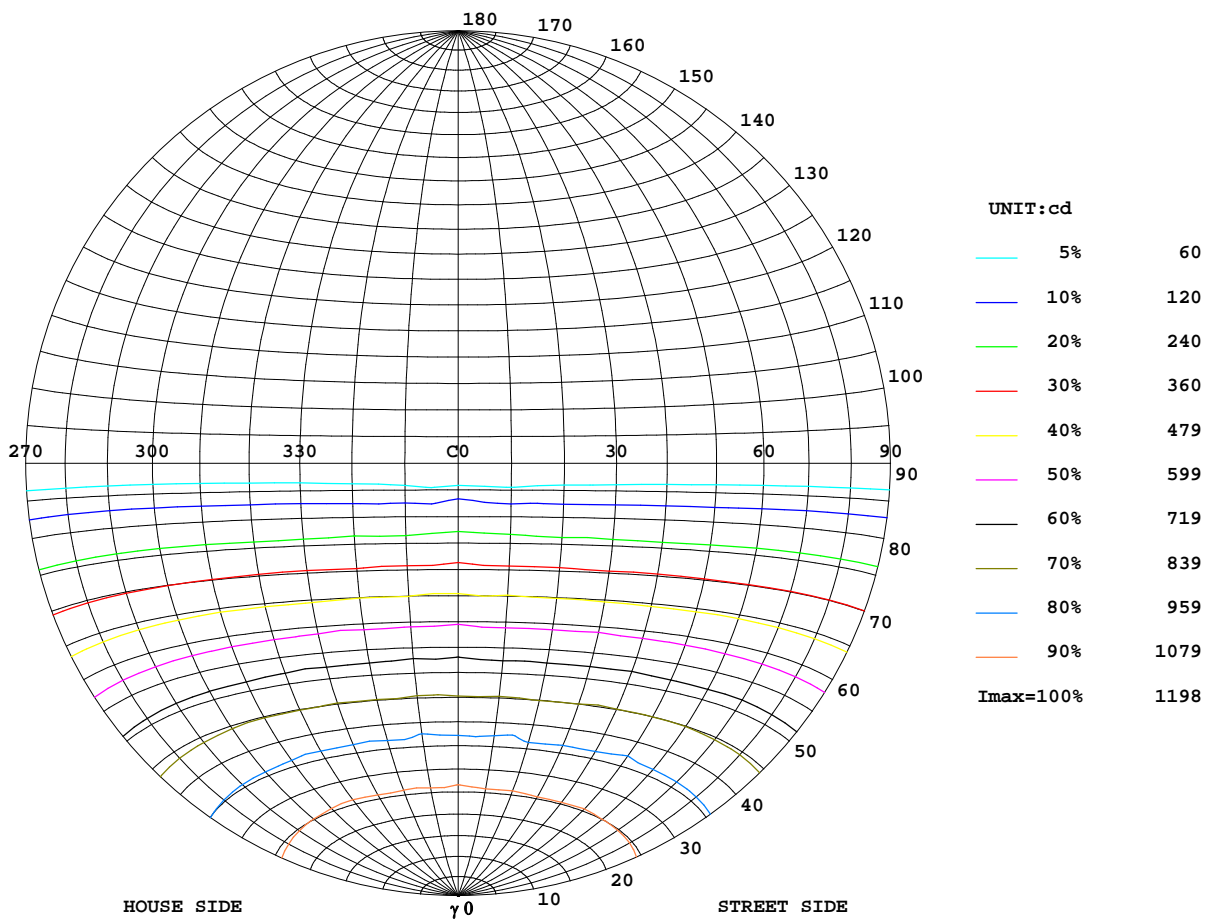
Test Set: 7.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: SGSLIGHT LIMITED	Address:	
NAME: LED PANEL	TYPE:	WEIGHT:
SPECIFICATION:TLP-F-3012N-40	DIMENSION: 296X1196X11MM 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:

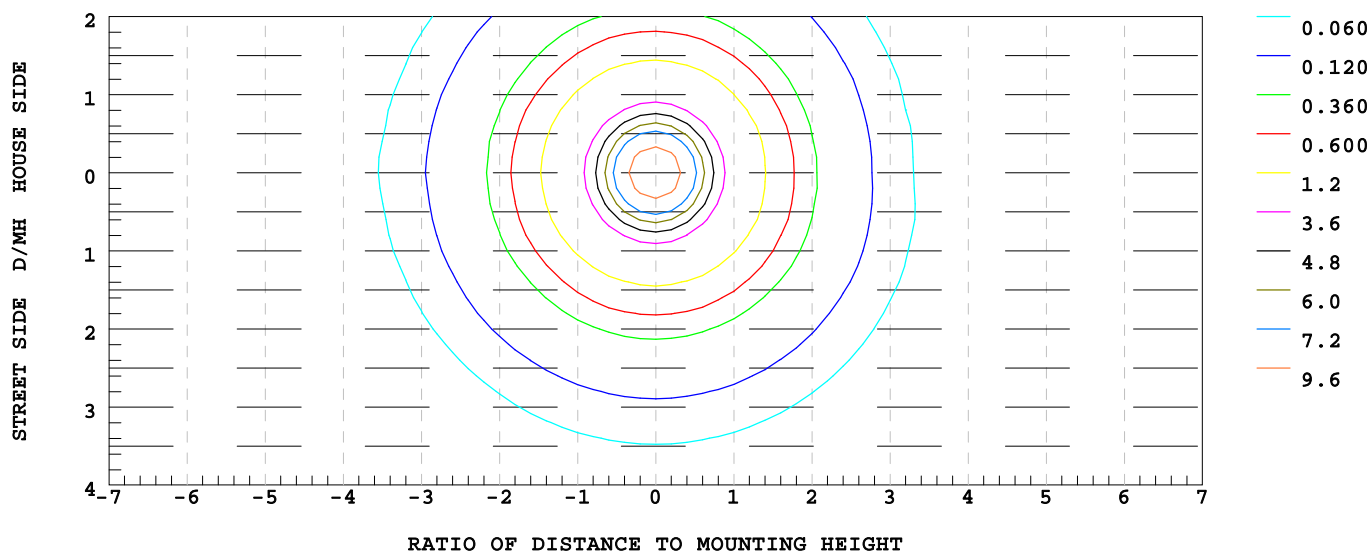
LUMINAIRE PHOTOMETRIC TEST REPORT

ISOLUX DIAGRAM

Report number:

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

ILLUMINANCE AT MH=10 m, Enadir = 11.97 lx



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

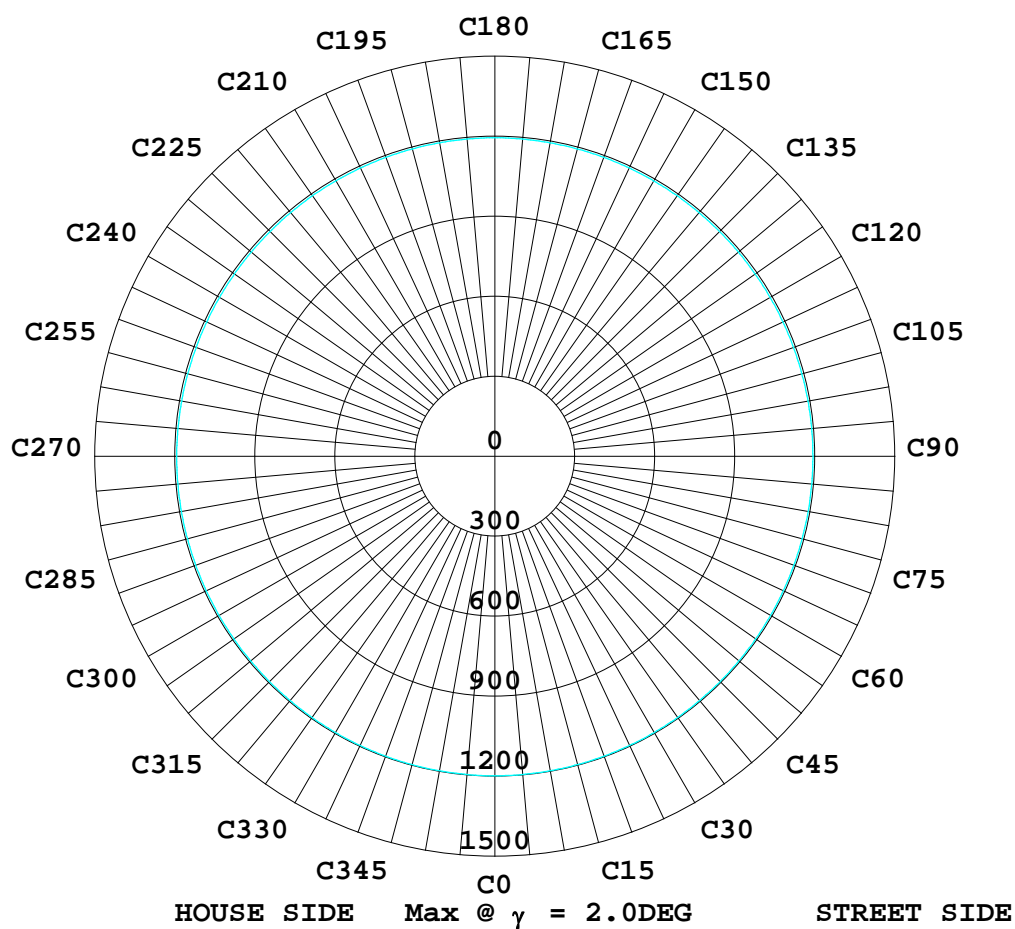
Test Set: 7.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

ISOCANDELA DIAGRAM

Report number:

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

UNIT: cd

γ (DEG)	C(DEG)														
	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70
0.0	1197	1197	1197	1197	1197	1197	1197	1197	1197	1197	1197	1197	1197	1197	1197
5.0	1197	1196	1195	1194	1193	1192	1192	1191	1191	1190	1189	1189	1189	1188	1188
10.0	1185	1183	1182	1181	1180	1179	1178	1178	1178	1178	1177	1177	1177	1177	1177
15.0	1164	1161	1159	1158	1157	1156	1157	1157	1158	1157	1155	1154	1152	1151	1150
20.0	1133	1130	1128	1126	1126	1127	1128	1125	1123	1121	1120	1120	1119	1119	1119
25.0	1093	1089	1086	1086	1086	1085	1083	1082	1082	1082	1082	1081	1079	1078	1077
30.0	1044	1039	1037	1037	1037	1034	1033	1033	1034	1032	1031	1030	1031	1031	1032
35.0	986	982	980	979	976	976	978	977	977	978	977	978	976	974	973
40.0	920	917	918	916	912	912	910	913	916	917	914	910	909	908	908
45.0	845	841	844	843	837	838	839	843	840	840	838	838	838	835	833
50.0	771	763	762	761	761	759	762	759	758	759	756	753	751	751	751
55.0	681	673	672	677	672	672	670	673	669	665	665	665	663	661	660
60.0	588	578	578	577	576	577	577	572	571	570	568	567	566	565	564
65.0	487	477	483	477	476	475	472	471	468	469	468	468	466	464	463
70.0	386	375	374	374	373	368	367	367	366	365	364	362	362	361	361
75.0	285	278	271	270	264	266	264	263	261	260	260	260	261	261	262
80.0	185	173	169	168	167	165	162	164	165	165	165	165	165	165	165
85.0	87.1	74.0	67.5	72.2	75.6	75.7	75.5	77.8	78.7	79.4	80.3	81.0	81.7	82.1	82.5
90.0	7.23	3.03	3.03	2.97	2.97	2.92	2.92	2.87	2.87	2.81	2.76	2.76	2.71	2.66	2.66
95.0	3.51	3.51	3.31	3.27	3.28	3.23	3.24	3.21	3.19	3.15	3.11	3.09	3.05	3.04	3.02
100.0	4.46	3.71	3.70	3.70	3.55	3.52	3.54	3.60	3.55	3.49	3.45	3.41	3.38	3.42	3.39
105.0	4.41	4.12	4.19	3.95	3.93	3.78	3.88	3.93	3.90	3.81	3.79	3.77	3.73	3.79	3.76
110.0	4.89	4.60	4.35	4.37	4.17	4.22	4.31	4.25	4.23	4.15	4.11	4.19	4.16	4.17	4.12
115.0	5.32	5.03	4.77	4.54	4.64	4.71	4.70	4.69	4.54	4.54	4.53	4.44	4.51	4.54	4.48
120.0	5.79	5.52	5.26	5.17	5.25	5.16	5.17	4.98	4.90	4.85	4.79	4.77	4.90	4.90	4.84
125.0	6.22	6.09	6.11	5.83	5.59	5.63	5.42	5.24	5.29	5.23	5.19	5.29	5.35	5.26	5.19
130.0	6.70	6.55	6.56	6.30	6.06	5.84	5.76	5.72	5.82	5.84	5.49	5.63	5.70	5.61	5.68
135.0	7.12	6.89	6.65	6.43	6.34	6.33	6.14	6.09	6.30	5.91	6.06	6.16	6.05	5.96	6.09
140.0	7.55	7.33	7.11	6.90	6.70	6.75	6.45	6.47	6.32	6.50	6.62	6.49	6.39	6.36	6.46
145.0	7.55	7.36	7.18	7.29	7.44	7.01	6.85	7.05	6.91	7.06	6.93	6.82	6.72	6.89	6.82
150.0	7.98	7.81	7.64	7.53	7.73	7.58	7.54	7.61	7.47	7.34	7.23	7.13	7.33	7.25	7.18
155.0	8.88	8.72	8.56	8.40	8.25	8.11	7.97	7.84	7.73	7.62	7.60	7.75	7.67	7.60	7.54
160.0	8.88	8.75	8.63	8.51	8.39	8.27	8.17	8.06	8.26	8.23	8.14	8.07	8.00	7.95	7.90
165.0	9.31	9.21	9.11	9.01	8.92	8.82	8.74	8.65	8.58	8.51	8.44	8.38	8.33	8.29	8.25
170.0	9.31	9.24	9.17	9.11	9.05	8.99	8.93	8.88	8.82	8.78	8.73	8.69	8.66	8.63	8.60
175.0	9.31	9.27	9.24	9.21	9.18	9.15	9.12	9.09	9.07	9.04	9.02	9.00	8.98	8.97	8.96
180.0	9.31	9.31	9.31	9.31	9.31	9.31	9.31	9.31	9.31	9.31	9.31	9.31	9.31	9.31	9.31

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-3012N-40	DIMENSION: 296X1196X11MM SERIAL No.:	

UNIT: cd

γ (DEG)	C(DEG)														
	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145
0.0	1197	1197	1197	1197	1197	1197	1197	1197	1197	1197	1197	1197	1197	1197	1197
5.0	1188	1187	1187	1187	1186	1186	1185	1185	1185	1185	1185	1185	1185	1185	1185
10.0	1177	1177	1177	1176	1175	1175	1174	1173	1172	1171	1170	1168	1167	1167	1166
15.0	1149	1148	1147	1146	1145	1145	1144	1143	1142	1142	1142	1142	1143	1143	1141
20.0	1119	1118	1117	1116	1115	1114	1112	1110	1108	1106	1104	1104	1103	1103	1104
25.0	1076	1075	1074	1073	1072	1070	1068	1067	1065	1064	1063	1062	1059	1057	1056
30.0	1032	1032	1031	1030	1028	1027	1024	1021	1018	1014	1012	1009	1006	1005	1002
35.0	972	970	969	968	966	965	963	961	960	960	959	953	948	944	950
40.0	908	908	907	906	904	901	898	896	893	891	887	886	886	882	877
45.0	831	830	828	827	826	824	822	821	819	818	815	811	808	804	811
50.0	750	750	750	749	747	746	743	741	738	735	733	731	728	725	724
55.0	658	657	656	655	654	653	652	651	650	649	649	643	640	637	633
60.0	563	563	562	561	560	559	557	556	554	553	552	550	550	547	540
65.0	462	462	461	461	460	459	458	458	456	455	454	452	450	448	448
70.0	360	360	360	360	360	359	359	358	357	356	355	353	351	348	347
75.0	262	262	262	262	262	261	261	261	260	259	258	257	255	253	251
80.0	164	164	164	164	164	164	164	164	163	164	163	163	161	159	158
85.0	82.8	83.1	83.2	83.2	83.1	82.9	82.6	82.0	81.4	81.0	80.4	79.2	76.3	71.6	67.1
90.0	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.66	2.76	3.13	3.67	4.36	5.10	5.63	6.01
95.0	2.99	2.98	2.98	2.97	2.98	2.98	2.99	3.05	3.11	3.28	3.49	3.73	3.89	3.90	3.74
100.0	3.37	3.36	3.35	3.35	3.35	3.36	3.37	3.45	3.46	3.45	3.37	3.14	2.77	2.26	1.60
105.0	3.76	3.74	3.72	3.72	3.72	3.74	3.74	3.84	3.81	3.71	3.36	2.70	1.90	0.84	0.00
110.0	4.14	4.11	4.10	4.09	4.10	4.11	4.09	4.20	4.20	4.01	3.41	2.61	1.30	0.00	0.00
115.0	4.52	4.49	4.47	4.46	4.47	4.49	4.44	4.49	4.59	4.38	3.82	2.62	1.19	0.00	0.00
120.0	4.90	4.86	4.84	4.84	4.84	4.86	4.80	4.84	5.02	4.83	4.16	3.26	1.53	0.00	0.00
125.0	5.28	5.24	5.22	5.21	5.22	5.24	5.25	5.30	5.46	5.25	4.86	3.86	2.26	0.30	0.00
130.0	5.65	5.61	5.59	5.58	5.59	5.61	5.65	5.71	5.82	5.76	5.48	4.70	3.32	1.64	0.00
135.0	6.03	5.99	5.96	5.95	5.96	5.99	6.03	5.89	5.96	6.31	6.01	5.66	4.59	3.30	1.75
140.0	6.40	6.36	6.33	6.33	6.33	6.36	6.40	6.30	6.53	6.60	6.63	6.42	6.01	5.19	4.18
145.0	6.77	6.73	6.71	6.70	6.71	6.73	6.77	6.82	6.65	6.81	7.14	7.08	6.85	6.64	6.18
150.0	7.13	7.10	7.08	7.07	7.08	7.10	7.13	7.18	7.19	7.18	7.23	7.49	7.70	7.52	7.34
155.0	7.50	7.47	7.45	7.44	7.45	7.47	7.50	7.54	7.60	7.61	7.44	7.84	7.62	8.07	8.24
160.0	7.86	7.84	7.82	7.82	7.82	7.84	7.86	7.90	7.95	8.00	8.07	7.90	7.88	8.32	8.33
165.0	8.22	8.20	8.19	8.19	8.19	8.20	8.22	8.25	8.29	8.33	8.38	8.44	8.51	8.58	8.56
170.0	8.59	8.57	8.56	8.56	8.56	8.57	8.59	8.60	8.63	8.66	8.69	8.73	8.78	8.82	8.88
175.0	8.95	8.94	8.93	8.93	8.93	8.94	8.95	8.96	8.97	8.98	9.00	9.02	9.04	9.07	9.09
180.0	9.31	9.31	9.31	9.31	9.31	9.31	9.31	9.31	9.31	9.31	9.31	9.31	9.31	9.31	9.31

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-3012N-40	DIMENSION: 296X1196X11MM SERIAL No.:	

UNIT: cd

C(DEG)\ γ (DEG)	150	155	160	165	170	175	180	185	190	195	200	205	210	215	220
0.0	1197	1197	1197	1197	1197	1197	1197	1197	1197	1197	1197	1197	1197	1197	1197
5.0	1185	1185	1186	1186	1187	1187	1188	1187	1187	1186	1186	1186	1185	1185	1185
10.0	1165	1165	1165	1165	1166	1167	1168	1167	1166	1166	1166	1166	1167	1167	1168
15.0	1139	1138	1137	1137	1137	1139	1141	1139	1137	1137	1137	1138	1140	1142	1144
20.0	1105	1103	1101	1099	1099	1100	1103	1100	1100	1100	1102	1104	1106	1105	1104
25.0	1055	1057	1056	1053	1052	1052	1055	1052	1052	1053	1056	1057	1055	1056	1057
30.0	1000	1000	1003	1001	998	997	1000	998	998	1001	1003	1000	1000	1001	1004
35.0	946	940	937	939	936	936	941	936	936	938	936	940	944	947	939
40.0	876	873	868	867	867	866	870	865	866	866	866	871	870	869	871
45.0	803	797	792	790	794	788	789	787	792	788	789	791	793	798	795
50.0	725	716	709	706	708	705	704	703	705	702	703	705	711	709	710
55.0	630	632	624	616	613	612	609	610	609	610	612	616	614	618	620
60.0	537	534	533	522	517	518	512	515	511	512	517	516	518	520	526
65.0	443	435	431	431	418	417	408	413	410	416	413	415	421	425	425
70.0	344	343	334	327	320	315	307	309	308	309	313	319	319	322	324
75.0	247	244	241	233	229	214	206	206	212	211	217	218	221	227	230
80.0	157	153	147	143	132	125	127	115	113	125	125	132	136	139	142
85.0	62.2	61.5	61.3	58.6	49.3	37.7	16.7	26.0	35.8	46.4	49.9	53.5	55.3	59.4	63.2
90.0	5.79	4.94	4.09	3.45	3.45	3.40	3.56	3.13	3.19	3.13	3.13	3.19	3.24	3.35	3.45
95.0	3.42	3.13	3.06	3.28	3.40	3.40	2.66	2.88	2.99	3.03	3.18	3.28	3.35	3.44	3.51
100.0	1.07	1.03	1.49	2.51	3.38	3.40	2.23	2.79	2.89	3.13	3.25	3.43	3.50	3.54	3.62
105.0	0.00	0.00	0.00	0.27	1.67	2.55	2.66	2.75	3.13	3.38	3.39	3.42	3.61	3.61	3.81
110.0	0.00	0.00	0.00	0.00	0.00	0.00	3.13	3.37	3.40	3.48	3.68	3.81	3.73	3.63	3.92
115.0	0.00	0.00	0.00	0.00	0.00	0.00	3.67	3.81	3.93	3.59	3.99	3.86	3.68	4.08	4.36
120.0	0.00	0.00	0.00	0.00	0.00	0.00	4.20	4.11	4.20	4.01	3.98	3.74	4.08	4.33	4.49
125.0	0.00	0.00	0.00	0.00	0.00	0.00	4.30	4.23	4.17	3.92	3.79	4.39	4.51	4.75	4.61
130.0	0.00	0.00	0.00	0.00	0.00	0.00	3.93	4.02	4.30	4.62	4.54	5.08	4.95	4.83	4.97
135.0	0.00	0.00	0.00	0.00	0.00	0.00	5.32	5.31	5.47	5.41	5.27	5.13	5.03	5.21	4.87
140.0	3.10	1.18	0.13	0.00	0.00	0.00	5.74	5.63	5.52	5.41	5.31	5.54	5.38	5.29	5.21
145.0	5.22	4.76	3.46	3.03	2.40	1.61	6.17	6.05	5.95	5.69	5.47	5.59	5.50	5.41	5.29
150.0	7.26	6.95	6.69	6.49	5.97	5.61	6.11	6.02	5.93	5.84	5.76	5.67	5.43	5.73	5.78
155.0	8.21	8.16	8.16	8.07	8.21	8.36	5.63	5.66	5.86	6.21	6.20	6.12	6.05	5.98	5.92
160.0	8.17	8.30	8.72	8.96	9.09	9.22	6.54	6.47	6.40	6.34	6.27	6.21	6.15	6.10	6.05
165.0	8.37	8.43	8.55	8.80	9.01	9.18	6.54	6.49	6.44	6.39	6.34	6.30	6.25	6.21	6.17
170.0	8.93	8.99	9.05	9.11	9.17	9.24	6.54	6.51	6.47	6.44	6.41	6.38	6.35	6.32	6.30
175.0	9.12	9.15	9.18	9.21	9.24	9.27	6.54	6.52	6.51	6.49	6.47	6.46	6.45	6.43	6.42
180.0	9.31	9.31	9.31	9.31	9.31	9.31	6.54	6.54	6.54	6.54	6.54	6.54	6.54	6.54	6.54

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-3012N-40	DIMENSION: 296X1196X11MM SERIAL No.:	

UNIT: cd

γ (DEG)	C (DEG)														
	225	230	235	240	245	250	255	260	265	270	275	280	285	290	295
0.0	1197	1197	1197	1197	1197	1197	1197	1197	1197	1197	1197	1197	1197	1197	1197
5.0	1185	1185	1185	1186	1186	1186	1186	1187	1187	1188	1188	1189	1189	1189	1190
10.0	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1180	1180	1180
15.0	1144	1144	1144	1144	1144	1145	1145	1147	1148	1149	1150	1151	1152	1153	1154
20.0	1104	1104	1106	1107	1109	1112	1114	1116	1118	1119	1120	1121	1122	1123	1123
25.0	1059	1062	1062	1063	1063	1064	1066	1067	1069	1071	1072	1074	1075	1078	1080
30.0	1003	1004	1006	1008	1010	1013	1015	1018	1020	1022	1023	1025	1026	1027	1027
35.0	940	943	948	948	949	951	953	956	958	960	962	964	965	967	968
40.0	873	874	875	878	881	884	888	892	895	897	899	901	902	903	904
45.0	795	798	802	804	806	808	809	812	814	817	819	821	824	826	830
50.0	713	715	717	719	722	725	728	731	734	736	738	740	742	743	745
55.0	621	625	630	632	633	634	636	638	641	643	645	648	650	652	655
60.0	530	530	532	534	536	539	541	545	547	550	552	554	556	558	559
65.0	428	430	433	436	438	441	443	446	448	450	452	454	456	458	460
70.0	329	332	335	338	340	343	344	347	349	350	352	353	355	356	358
75.0	234	237	240	243	245	248	249	251	253	255	256	257	259	260	260
80.0	144	147	149	151	152	154	155	156	158	159	161	162	163	165	165
85.0	66.1	69.8	72.0	74.0	75.7	77.2	78.3	79.4	80.4	81.2	81.9	82.5	83.2	83.7	83.8
90.0	3.40	3.35	3.29	3.24	3.24	3.19	3.19	3.19	3.19	3.19	3.29	3.61	4.20	4.89	5.37
95.0	3.56	3.52	3.49	3.42	3.39	3.39	3.38	3.38	3.37	3.37	3.43	3.58	3.86	4.17	4.34
100.0	3.76	3.69	3.68	3.61	3.56	3.58	3.57	3.57	3.56	3.56	3.56	3.56	3.54	3.48	3.32
105.0	3.95	3.86	3.84	3.79	3.79	3.78	3.76	3.75	3.75	3.75	3.70	3.55	3.25	2.86	2.33
110.0	4.11	4.02	3.96	3.97	4.00	3.98	3.96	3.94	3.93	3.93	3.84	3.57	3.04	2.31	1.43
115.0	4.24	4.29	4.19	4.14	4.20	4.17	4.15	4.13	4.12	4.12	4.00	3.63	2.88	1.76	0.71
120.0	4.39	4.44	4.36	4.22	4.40	4.36	4.34	4.32	4.31	4.30	4.17	3.71	2.79	1.61	0.26
125.0	4.72	4.59	4.53	4.57	4.59	4.55	4.53	4.51	4.49	4.49	4.35	3.81	2.80	1.49	0.00
130.0	4.66	4.76	4.65	4.83	4.78	4.74	4.71	4.69	4.68	4.68	4.52	3.94	2.92	1.47	0.00
135.0	4.99	4.92	5.07	5.02	4.97	4.93	4.90	4.88	4.87	4.86	4.68	4.12	3.16	1.80	0.01
140.0	5.13	5.09	5.25	5.20	5.15	5.11	5.09	5.07	5.05	5.05	4.84	4.33	3.53	2.14	0.49
145.0	5.56	5.49	5.43	5.38	5.33	5.30	5.27	5.25	5.24	5.24	5.00	4.59	3.92	2.66	1.26
150.0	5.71	5.65	5.60	5.55	5.51	5.48	5.45	5.44	5.43	5.42	5.16	4.90	4.25	3.37	2.06
155.0	5.86	5.81	5.76	5.72	5.69	5.66	5.64	5.62	5.61	5.61	5.32	5.26	4.66	4.07	3.08
160.0	6.00	5.96	5.92	5.89	5.86	5.84	5.82	5.80	5.80	5.79	5.57	5.48	5.15	4.63	4.11
165.0	6.14	6.11	6.08	6.05	6.03	6.01	6.00	5.99	5.98	5.98	5.88	5.64	5.65	5.28	4.87
170.0	6.27	6.25	6.23	6.22	6.20	6.19	6.18	6.17	6.17	6.17	6.17	5.90	5.80	5.81	5.74
175.0	6.41	6.40	6.39	6.38	6.37	6.36	6.36	6.36	6.35	6.35	6.35	6.36	6.24	6.08	5.97
180.0	6.54	6.54	6.54	6.54	6.54	6.54	6.54	6.54	6.54	6.54	6.54	6.54	6.54	6.54	6.54

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-3012N-40	DIMENSION: 296X1196X11MM SERIAL No.:	

UNIT: cd

C(DEG)\ γ (DEG)	300	305	310	315	320	325	330	335	340	345	350	355
0.0	1197	1197	1197	1197	1197	1197	1197	1197	1197	1197	1197	1197
5.0	1190	1190	1191	1191	1192	1192	1193	1193	1194	1194	1195	1196
10.0	1180	1180	1179	1179	1179	1179	1179	1180	1180	1181	1182	1184
15.0	1155	1156	1158	1160	1161	1160	1159	1159	1159	1159	1160	1162
20.0	1123	1124	1124	1125	1126	1128	1130	1130	1128	1128	1129	1131
25.0	1081	1084	1086	1086	1086	1086	1087	1088	1089	1088	1088	1089
30.0	1028	1030	1032	1036	1038	1038	1037	1037	1040	1040	1039	1040
35.0	971	974	976	977	978	981	983	981	980	983	981	982
40.0	904	907	910	914	914	914	913	917	916	919	920	918
45.0	834	836	836	837	838	841	840	841	840	846	847	842
50.0	746	749	753	758	757	758	761	760	765	766	765	765
55.0	657	660	662	663	667	672	669	672	674	682	676	675
60.0	561	563	564	567	569	571	578	577	576	580	583	580
65.0	463	466	466	467	468	470	472	477	478	478	488	480
70.0	359	361	363	366	368	369	368	368	375	374	377	378
75.0	260	260	260	261	262	265	267	268	265	272	273	282
80.0	166	167	167	167	167	166	164	167	170	170	171	174
85.0	84.0	83.7	83.5	82.9	82.2	81.3	78.9	78.9	77.3	72.1	66.8	71.9
90.0	6.01	6.27	6.43	6.43	6.22	5.85	5.16	4.25	3.51	3.35	3.35	3.24
95.0	4.50	4.55	4.50	4.37	4.09	3.73	3.36	3.08	2.93	2.85	2.49	1.84
100.0	3.05	2.85	2.62	2.32	2.00	1.60	1.49	1.65	2.10	2.31	2.14	1.31
105.0	1.75	1.21	0.83	0.31	0.00	0.00	0.00	0.00	0.49	1.21	1.59	1.43
110.0	0.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
115.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	1.89	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	3.33	2.34	1.37	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	4.47	4.09	3.50	2.79	2.11	1.48	0.91	0.38	0.00	0.00	0.00	0.00
170.0	5.46	5.20	4.94	4.70	4.48	4.28	4.10	3.92	3.65	3.43	3.27	3.17
175.0	5.97	5.98	5.99	6.00	6.01	5.98	5.90	5.83	5.77	5.72	5.70	5.68
180.0	6.54	6.54	6.54	6.54	6.54	6.54	6.54	6.54	6.54	6.54	6.54	6.54

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: