

LUMINAIRE PHOTOMETRIC TEST REPORT

LAMP PHOTOMETRIC REPORT

MODEL: TLP-F-3030N-18

POWER: 18W

VOLTAGE: 230V

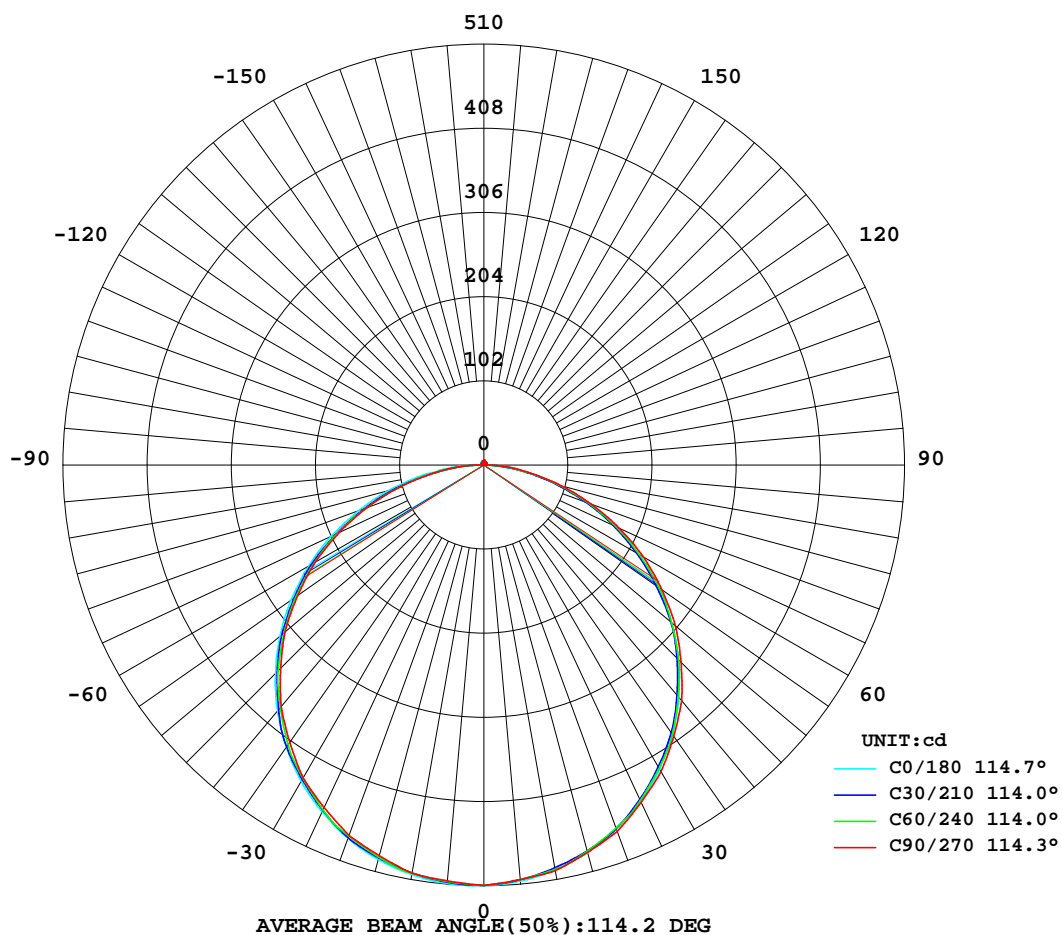
WORKING VOLTAGE: 219.0V

MANUFACTURER: SGSLIGHT LIMITED

TOTAL FLUX: 1500.2 lm

Efficiency: 79.333 lm/W

Test: U: 230.1V I: 0.087A P: 18.91W PF: 0.944



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

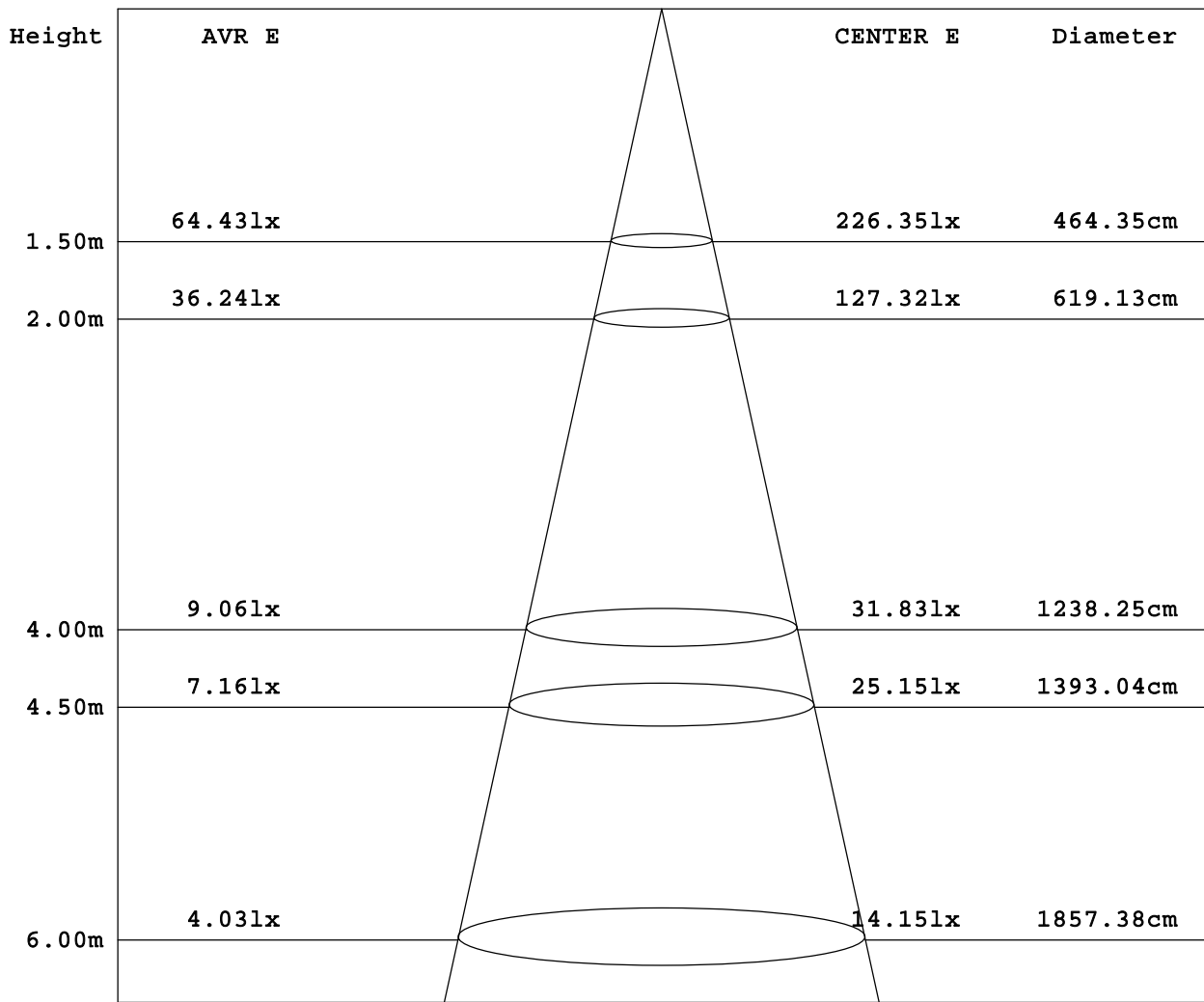
Test Set: 7.0deg/s B-Beta (TYPE B)
Humidity:65.0%
Test Distance:7.000 m
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

AVERAGE AND CENTER E Figure

Report number:

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



Angle:114.3deg

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

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

LUMINAIRE PHOTOMETRIC TEST REPORT

ZONAL FLUX DIAGRAM

Report number:

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

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	zone	total
5.0	508.9	506.8	505.7	504.9	506.0	504.0	504.1	505.9	0- 5	12.12	12.12
10.0	503.8	501.9	502.2	498.1	497.6	496.1	499.0	500.1	5- 10	35.95	48.07
15.0	494.5	493.3	489.9	488.4	486.0	484.9	485.7	490.4	10- 15	58.61	106.6
20.0	481.2	478.3	477.5	471.3	469.0	467.2	472.4	475.0	15- 20	79.30	185.9
25.0	463.6	461.9	457.8	452.7	449.4	447.4	450.8	458.2	20- 25	97.41	283.4
30.0	442.4	440.5	438.0	429.9	425.9	423.3	429.2	435.9	25- 30	112.2	395.6
35.0	417.1	413.9	410.0	403.6	398.1	395.7	401.0	408.5	30- 35	123.5	519.1
40.0	388.9	385.9	382.1	376.1	367.5	366.7	372.7	379.7	35- 40	130.5	649.7
45.0	356.7	352.9	348.3	342.0	333.2	331.6	337.8	346.9	40- 45	133.3	783.1
50.0	322.8	319.6	314.6	306.6	297.0	295.5	302.9	313.6	45- 50	131.6	914.8
55.0	285.5	278.6	275.3	268.6	256.8	256.1	263.2	272.3	50- 55	125.6	1040
60.0	245.1	237.9	236.0	230.8	216.4	216.9	223.4	231.6	55- 60	115.2	1156
65.0	204.3	195.9	193.0	188.5	173.0	174.1	180.7	189.5	60- 65	101.2	1257
70.0	161.3	152.8	150.1	147.1	131.1	132.4	137.9	146.6	65- 70	83.95	1341
75.0	119.3	107.8	107.9	107.2	90.06	92.96	97.37	102.6	70- 75	64.61	1406
80.0	78.84	67.78	65.75	67.76	51.81	55.31	56.75	63.36	75- 80	44.37	1450
85.0	42.08	32.21	33.70	32.89	9.935	24.55	29.33	29.54	80- 85	24.85	1475
90.0	4.051	1.705	1.663	3.240	2.132	1.961	1.918	1.961	85- 90	8.422	1483
95.0	2.515	1.916	1.897	2.390	1.492	2.051	2.046	2.021	90- 95	1.083	1484
100.0	2.515	2.123	2.132	1.613	1.492	2.140	2.174	2.080	95-100	1.017	1485
105.0	2.899	2.325	2.366	1.066	1.833	2.269	2.302	2.138	100-105	1.023	1486
110.0	3.283	2.518	2.601	0.672	2.217	2.383	2.430	2.309	105-110	1.062	1487
115.0	3.624	2.845	2.835	0.499	2.260	2.488	2.558	2.388	110-115	1.100	1489
120.0	3.624	3.044	3.070	0.778	2.643	2.588	2.686	2.463	115-120	1.136	1490
125.0	4.008	3.231	3.304	1.231	3.070	2.796	2.814	2.623	120-125	1.159	1491
130.0	4.392	3.407	3.539	2.192	2.729	2.982	2.942	2.769	125-130	1.170	1492
135.0	4.392	3.572	3.773	3.424	3.112	3.085	3.070	2.852	130-135	1.167	1493
140.0	4.775	3.982	4.008	3.982	3.454	3.183	3.198	3.183	135-140	1.155	1494
145.0	4.775	4.148	4.242	4.148	3.837	3.276	3.326	3.276	140-145	1.137	1495
150.0	4.775	4.307	4.477	4.511	3.837	3.364	3.454	3.364	145-150	1.118	1497
155.0	5.159	4.459	4.712	4.459	3.837	3.754	3.581	3.448	150-155	1.029	1498
160.0	5.159	4.605	4.946	4.926	3.837	3.852	3.709	3.852	155-160	0.885	1498
165.0	5.159	4.932	5.181	5.086	4.221	3.947	3.837	3.947	160-165	0.724	1499
170.0	5.159	5.240	5.415	5.240	4.221	4.039	3.965	4.039	165-170	0.543	1500
175.0	5.543	5.392	5.650	5.392	4.221	4.131	4.093	4.131	170-175	0.339	1500
180.0	5.884	5.884	5.884	5.884	4.221	4.221	4.221	4.221	175-180	0.117	1500
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

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

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

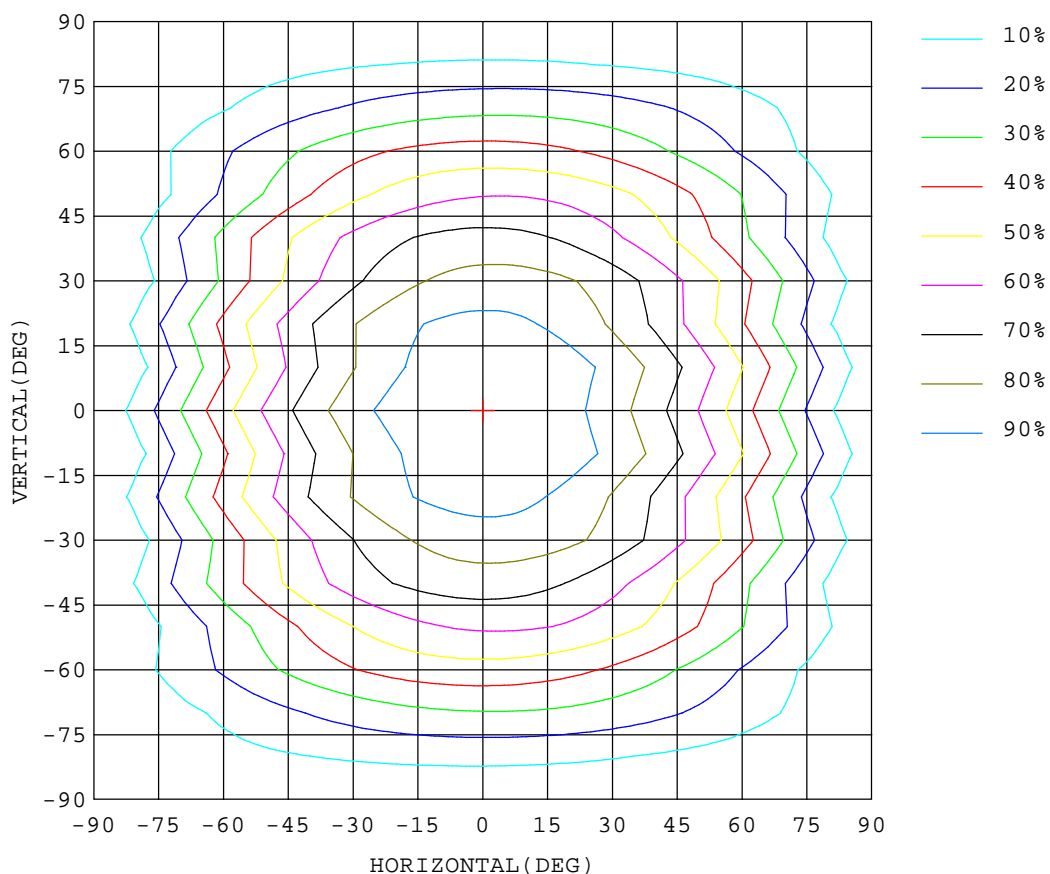
LUMINAIRE PHOTOMETRIC TEST REPORT

ISOCANDELA DIAGRAM

Report number:

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

UNIT: cd



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

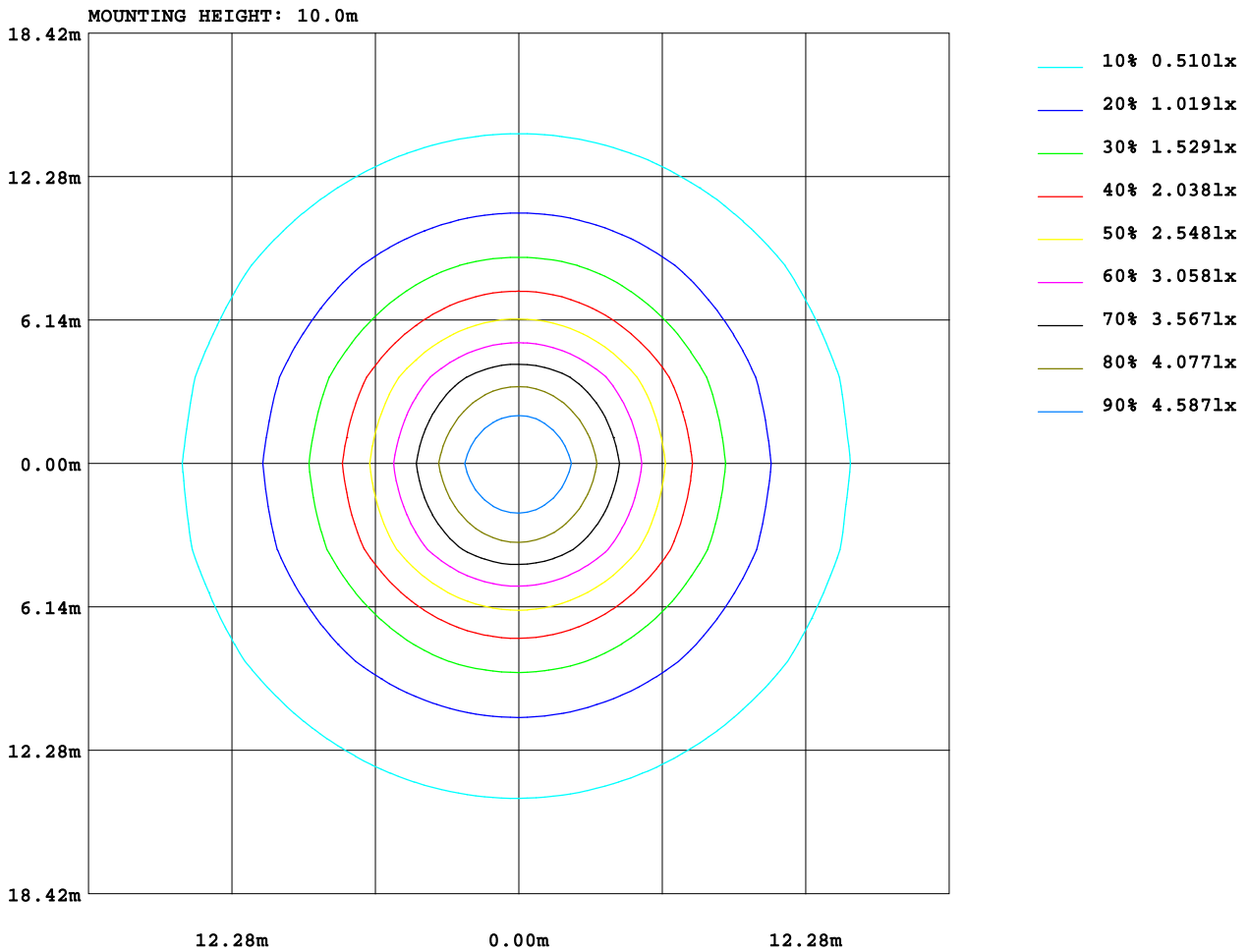
Test Set: 7.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

ISOLUX DIAGRAM

Report number:

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



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

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

LUMINAIRE PHOTOMETRIC TEST REPORT

AREA LUMINOUS FLUX

Report number:

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

		AREA FLUX DIAGRAM															UNIT:lm		Φ t	Φ a	
VERTICAL (DEG)	90	0.00	0.01	0.02	0.03	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.04	0.03	0.03	0.02	0.01	0.64	0.64	
	80	0.01	0.11	0.34	0.70	1.14	1.60	2.02	2.34	2.53	2.55	2.40	2.09	1.69	1.24	0.80	0.43	0.16	0.02	22.1	22.1
	70	0.01	0.16	0.60	1.28	2.19	3.16	4.08	4.83	5.29	5.40	5.15	4.57	3.73	2.77	1.81	0.98	0.39	0.07	46.5	46.5
	60	0.05	0.45	1.26	2.43	3.84	5.30	6.60	7.56	8.06	8.02	7.47	6.45	5.12	3.67	2.28	1.14	0.38	0.03	70.1	70.1
	50	0.01	0.30	1.14	2.52	4.27	6.15	7.90	9.30	10.1	10.3	9.92	8.85	7.30	5.47	3.61	1.97	0.78	0.14	90.2	90.2
	40	0.10	0.77	2.08	3.96	6.14	8.34	10.2	11.6	12.3	12.2	11.4	9.86	7.86	5.66	3.52	1.75	0.57	0.05	109	109
	30	0.01	0.40	1.58	3.46	5.81	8.30	10.6	12.4	13.5	13.8	13.2	11.8	9.84	7.43	4.96	2.74	1.09	0.19	122	122
	20	0.14	0.99	2.63	4.94	7.58	10.2	12.5	14.1	14.9	14.8	13.7	11.9	9.51	6.84	4.27	2.11	0.66	0.06	132	132
	10	0.02	0.46	1.79	3.90	6.53	9.31	11.8	13.9	15.2	15.5	14.8	13.3	11.0	8.36	5.60	3.11	1.25	0.23	137	137
	0	0.16	1.07	2.82	5.24	7.98	10.7	13.0	14.7	15.6	15.4	14.3	12.3	9.84	7.07	4.39	2.16	0.67	0.05	138	138
	-10	0.02	0.46	1.73	3.78	6.34	9.04	11.5	13.5	14.8	15.1	14.4	12.9	10.7	8.14	5.46	3.04	1.22	0.23	133	133
	-20	0.15	1.00	2.57	4.76	7.24	9.71	11.8	13.3	14.1	13.9	12.9	11.1	8.86	6.34	3.92	1.91	0.59	0.04	125	125
	-30	0.01	0.38	1.43	3.13	5.27	7.55	9.67	11.3	12.4	12.6	12.1	10.8	9.01	6.81	4.55	2.52	1.02	0.18	111	111
	-40	0.13	0.77	1.97	3.62	5.52	7.41	9.04	10.2	10.7	10.6	9.81	8.43	6.65	4.72	2.88	1.39	0.42	0.03	94.4	94.4
	-50	0.01	0.25	0.94	2.04	3.46	4.99	6.44	7.60	8.33	8.52	8.15	7.28	6.01	4.52	3.00	1.66	0.69	0.13	74.0	74.0
	-60	0.08	0.45	1.14	2.03	3.08	4.13	5.04	5.70	5.98	5.88	5.39	4.59	3.57	2.50	1.50	0.71	0.21	0.01	52.0	52.0
	-70	0.00	0.11	0.37	0.79	1.31	1.88	2.42	2.88	3.17	3.25	3.11	2.78	2.29	1.73	1.16	0.65	0.28	0.06	28.2	28.2
	-80	0.03	0.11	0.23	0.38	0.51	0.62	0.71	0.76	0.79	0.76	0.68	0.58	0.45	0.32	0.19	0.10	0.03	0.00	7.25	7.25
-90																					
		-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)	20	30	40	50	60	70	80	90			
Φ t		0.94	8.25	24.7	49.0	78.3	109	136	157	168	169	159	140	114	83.7	54.0	28.4	10.4	1.52	1500	
Φ a		0.94	8.25	24.7	49.0	78.3	109	136	157	168	169	159	140	114	83.7	54.0	28.4	10.4	1.52		1500

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

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

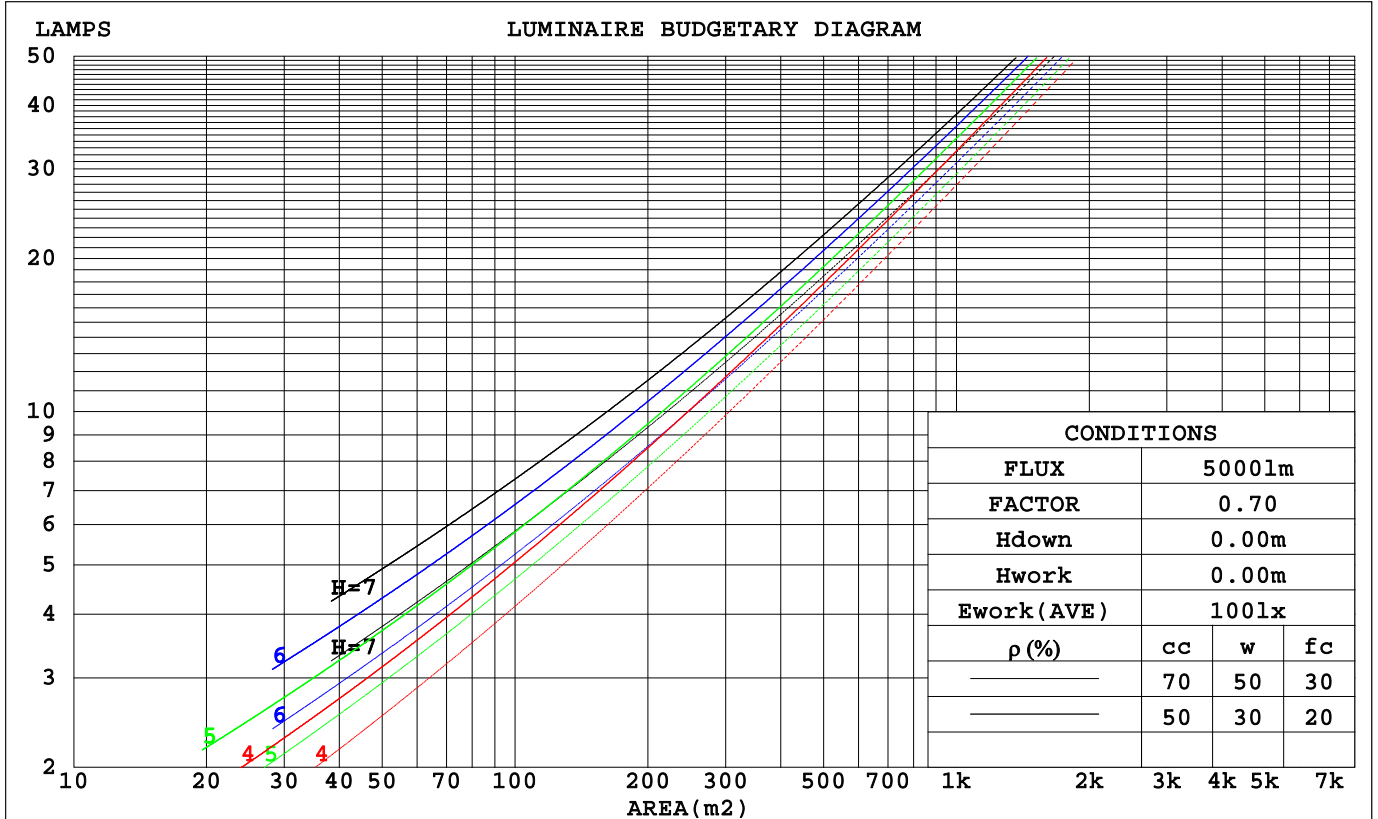
LUMINAIRE PHOTOMETRIC TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

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

ρcc	80%			70%			50%			30%			10%			0														
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%															
ρw	20%			20%			20%			20%			20%			0														
ρfc	20%			20%			20%			20%			20%																	
RCR	RCR:Room Cavity Ratio															Coefficients of Utilization(CU)														
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.10	1.10	1.10	1.06	1.06	1.06	1.01	1.01	1.01	.99														
1.0	1.03	.99	.95	1.01	.97	.93	.96	.93	.90	.92	.90	.87	.89	.86	.84	.82														
2.0	.90	.83	.77	.88	.81	.76	.84	.79	.74	.81	.76	.72	.77	.74	.70	.68														
3.0	.79	.70	.64	.77	.69	.63	.74	.67	.62	.71	.65	.61	.68	.64	.59	.57														
4.0	.70	.61	.54	.68	.60	.53	.66	.58	.53	.63	.57	.52	.61	.55	.51	.49														
5.0	.62	.53	.46	.61	.52	.46	.59	.51	.45	.57	.50	.45	.55	.49	.44	.42														
6.0	.56	.47	.40	.55	.46	.40	.53	.45	.40	.51	.44	.39	.49	.43	.39	.37														
7.0	.51	.42	.36	.50	.41	.35	.48	.41	.35	.47	.40	.35	.45	.39	.34	.32														
8.0	.46	.38	.32	.45	.37	.32	.44	.37	.31	.43	.36	.31	.41	.35	.31	.29														
9.0	.42	.34	.28	.42	.34	.28	.40	.33	.28	.39	.33	.28	.38	.32	.28	.26														
10.0	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.25	.35	.29	.25	.23														



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

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

LUMINAIRE PHOTOMETRIC TEST REPORT

WEC AND CCEC

Report number:

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

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.315	.179	.057	.308	.176	.056	.294	.169	.054	.281	.162	.052	.269	.156	.050	
2.0	.295	.162	.050	.289	.159	.049	.276	.154	.048	.265	.149	.047	.254	.144	.045	
3.0	.272	.145	.043	.267	.143	.043	.256	.139	.042	.246	.135	.041	.236	.131	.040	
4.0	.251	.130	.038	.246	.129	.038	.236	.125	.037	.227	.122	.037	.219	.119	.036	
5.0	.232	.118	.034	.227	.117	.034	.218	.114	.033	.210	.111	.033	.203	.108	.033	
6.0	.215	.108	.031	.211	.106	.031	.203	.104	.030	.196	.102	.030	.189	.099	.030	
7.0	.200	.099	.028	.196	.098	.028	.189	.096	.028	.183	.094	.027	.177	.092	.027	
8.0	.186	.091	.026	.183	.090	.025	.177	.088	.025	.171	.087	.025	.166	.085	.025	
9.0	.175	.084	.024	.172	.084	.023	.166	.082	.023	.161	.081	.023	.156	.079	.023	
10.0	.164	.079	.022	.161	.078	.022	.156	.077	.022	.152	.075	.021	.147	.074	.021	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.199	.199	.199	.170	.170	.170	.116	.116	.116	.067	.067	.067	.021	.021	.021	
1.0	.189	.165	.143	.162	.141	.123	.111	.097	.085	.064	.056	.049	.020	.018	.016	
2.0	.181	.141	.106	.155	.121	.092	.107	.084	.064	.061	.049	.038	.020	.016	.012	
3.0	.174	.123	.083	.149	.106	.072	.102	.074	.050	.059	.043	.030	.019	.014	.010	
4.0	.166	.110	.067	.143	.095	.058	.098	.066	.041	.057	.039	.024	.018	.013	.008	
5.0	.159	.100	.056	.136	.086	.049	.094	.060	.034	.054	.035	.020	.018	.012	.007	
6.0	.151	.091	.048	.130	.079	.042	.090	.055	.030	.052	.033	.018	.017	.011	.006	
7.0	.145	.084	.042	.124	.073	.037	.086	.051	.026	.050	.030	.015	.016	.010	.005	
8.0	.138	.079	.038	.119	.068	.033	.082	.048	.023	.048	.028	.014	.015	.009	.005	
9.0	.132	.074	.034	.114	.064	.030	.079	.045	.021	.046	.027	.013	.015	.009	.004	
10.0	.126	.069	.031	.109	.060	.027	.076	.042	.019	.044	.025	.012	.014	.008	.004	

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

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

LUMINAIRE PHOTOMETRIC TEST REPORT

Uncorrected UGR Table

Report number:

MANUFACTURER: SGSLIGHT LIMITED					Address:					
NAME: LED PANEL					TYPE:			WEIGHT:		
SPECIFICATION:TLP-F-3030N-18					DIMENSION: 296X296X11MM			SERIAL No.:		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	18.9	20.4	19.2	20.6	20.9	18.8	20.3	19.0	20.5	20.7
3H	20.5	21.9	20.9	22.2	22.5	20.3	21.7	20.6	22.0	22.3
4H	21.2	22.6	21.6	22.8	23.1	21.0	22.3	21.3	22.6	22.9
6H	21.8	23.1	22.2	23.4	23.7	21.5	22.7	21.8	23.0	23.3
8H	22.0	23.2	22.4	23.5	23.8	21.6	22.8	22.0	23.2	23.5
12H	22.2	23.3	22.5	23.7	24.0	21.8	22.9	22.1	23.2	23.6
4H 2H	19.5	20.8	19.8	21.1	21.4	19.4	20.7	19.7	21.0	21.3
3H	21.3	22.5	21.7	22.8	23.1	21.2	22.3	21.5	22.6	23.0
4H	22.1	23.2	22.5	23.6	23.9	21.9	23.0	22.3	23.3	23.7
6H	22.8	23.8	23.3	24.2	24.6	22.5	23.5	23.0	23.9	24.3
8H	23.1	24.0	23.5	24.4	24.8	22.8	23.7	23.2	24.0	24.5
12H	23.3	24.1	23.8	24.5	25.0	23.0	23.8	23.4	24.2	24.6
8H 4H	22.4	23.3	22.8	23.7	24.1	22.2	23.1	22.7	23.5	23.9
6H	23.3	24.0	23.7	24.4	24.9	23.0	23.7	23.5	24.2	24.6
8H	23.6	24.2	24.1	24.7	25.2	23.3	24.0	23.8	24.4	24.9
12H	23.9	24.4	24.4	24.9	25.4	23.6	24.2	24.1	24.6	25.1
12H 4H	22.4	23.2	22.9	23.6	24.1	22.2	23.1	22.7	23.5	23.9
6H	23.3	24.0	23.8	24.4	24.9	23.1	23.7	23.5	24.2	24.6
8H	23.7	24.3	24.2	24.7	25.2	23.4	24.0	23.9	24.5	25.0
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.3				

CIE Pub.117 Corrected 1500 lm Total Lamp Luminous Flux.(8log(F/F0) = 1.4)

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

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

LUMINAIRE PHOTOMETRIC TEST REPORT

UTILIZATION FACTORS TABLE

Report number:

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

REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	57	45	38	56	45	38	55	44	38	31
0.80	67	55	48	66	55	47	64	54	47	40
1.00	75	64	56	74	63	56	72	65	56	48
1.25	82	72	64	81	71	64	78	69	63	56
1.50	87	77	70	86	76	70	82	74	68	61
2.00	94	85	79	92	84	78	89	82	76	68
2.50	98	90	84	96	89	83	92	86	81	72
3.00	102	95	89	99	93	88	95	90	85	77
4.00	106	100	95	103	98	94	99	94	91	81
5.00	108	103	99	106	101	97	101	97	94	85
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

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

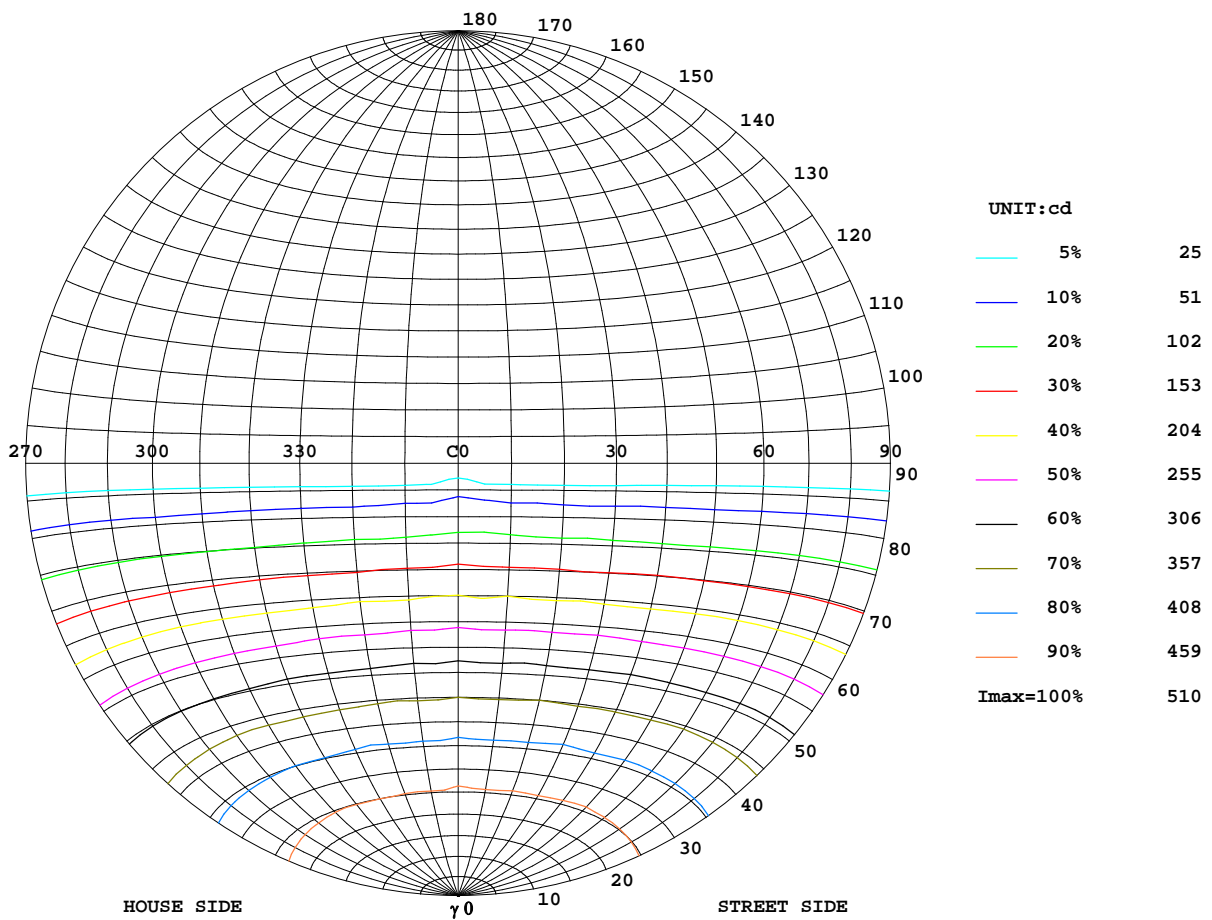
Test Set: 7.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

ISOCANDELA DIAGRAM

Report number:

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



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

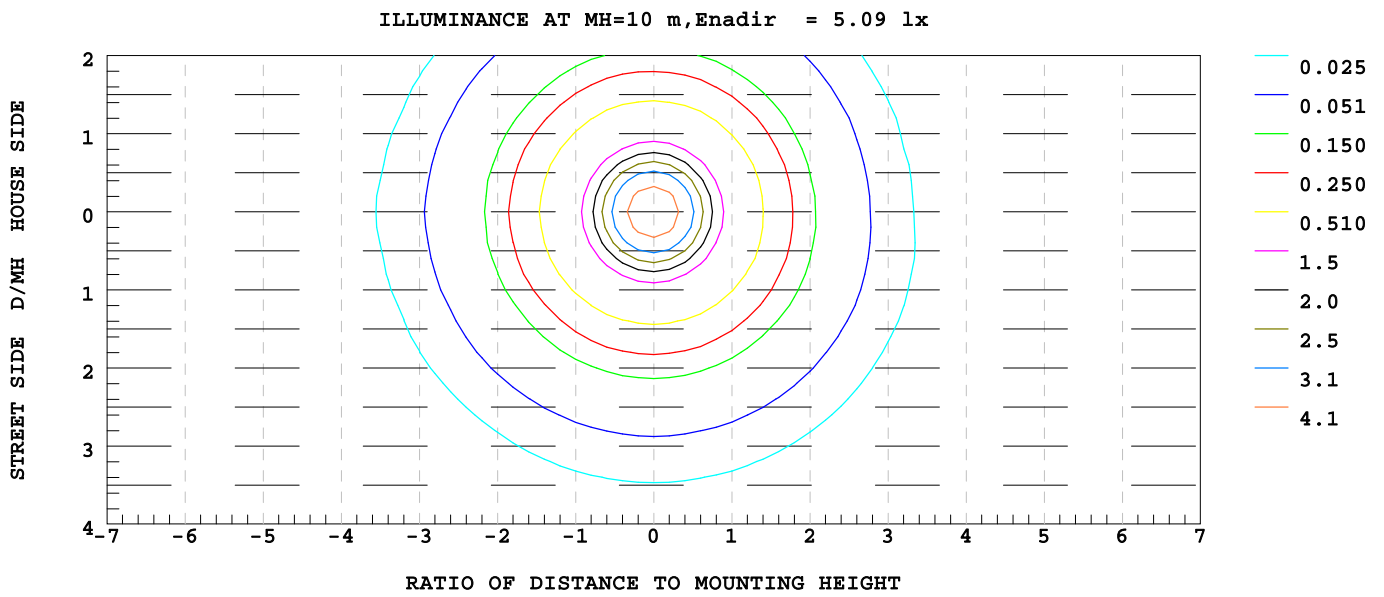
Test Set: 7.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

ISOLUX DIAGRAM

Report number:

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



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

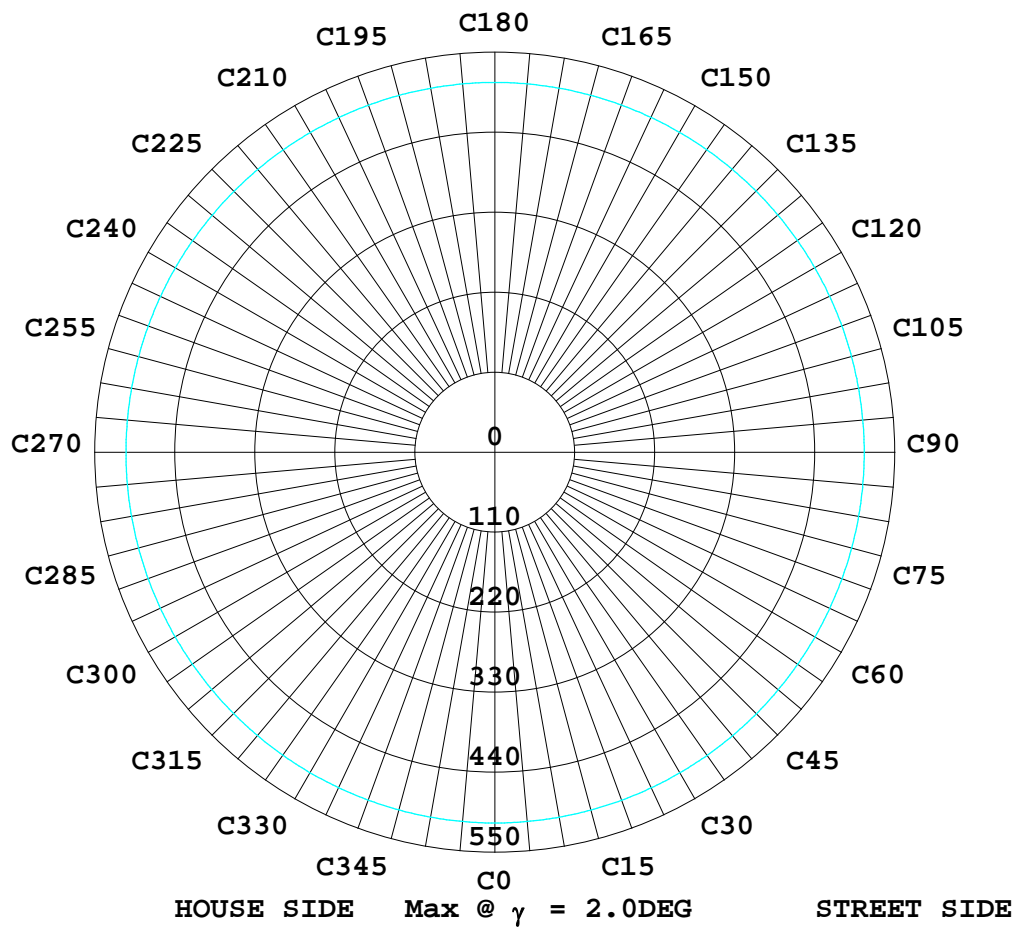
Test Set: 7.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

ISOCANDELA DIAGRAM

Report number:

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



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

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

LUMINAIRE PHOTOMETRIC TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

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

UNIT: cd

γ (DEG)	C(DEG)														
	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70
0.0	509	509	509	509	509	509	509	509	509	509	509	509	509	509	509
5.0	509	509	508	508	508	508	507	507	507	507	507	507	506	506	506
10.0	504	503	503	502	502	502	502	502	502	502	502	502	502	502	502
15.0	495	494	493	493	492	492	493	493	494	493	493	492	492	491	491
20.0	481	480	479	479	480	480	481	479	479	478	478	478	478	478	478
25.0	464	462	461	461	462	462	462	462	462	462	462	462	461	460	460
30.0	442	441	440	441	441	440	440	441	442	441	439	439	438	439	439
35.0	417	415	415	416	415	416	417	416	414	414	414	415	414	413	412
40.0	389	387	387	387	387	388	387	386	386	386	385	384	384	384	384
45.0	357	354	355	355	357	355	354	354	353	353	353	353	353	351	351
50.0	323	320	320	320	321	319	319	318	318	320	317	316	316	315	315
55.0	286	282	282	285	282	281	280	282	280	279	278	278	278	277	277
60.0	245	242	243	242	241	241	241	239	238	238	237	237	237	237	237
65.0	204	199	204	199	199	199	197	196	196	196	196	196	195	195	194
70.0	161	158	157	156	156	153	153	154	154	153	152	151	151	150	150
75.0	119	118	114	113	111	112	111	110	109	108	108	108	108	108	108
80.0	78.8	74.1	73.0	71.6	70.6	68.3	66.7	68.1	67.8	67.7	67.5	67.2	66.9	66.6	66.3
85.0	42.0	36.2	34.1	31.4	31.3	31.2	31.0	31.5	31.8	32.2	32.5	32.8	33.0	33.2	33.4
90.0	4.05	1.74	1.74	1.74	1.74	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70
95.0	2.51	2.13	2.07	1.98	2.00	1.95	1.93	1.92	1.93	1.91	1.92	1.91	1.90	1.91	1.90
100.0	2.51	2.51	2.32	2.18	2.26	2.18	2.20	2.14	2.16	2.12	2.14	2.12	2.09	2.12	2.11
105.0	2.89	2.66	2.47	2.68	2.51	2.39	2.42	2.34	2.38	2.32	2.36	2.32	2.30	2.33	2.31
110.0	3.28	3.22	3.01	2.86	2.70	2.74	2.62	2.67	2.58	2.51	2.57	2.52	2.57	2.54	2.51
115.0	3.62	3.39	3.18	3.00	3.08	2.92	2.85	2.87	2.77	2.84	2.77	2.71	2.79	2.75	2.71
120.0	3.62	3.57	3.58	3.39	3.22	3.14	3.17	3.05	2.95	3.04	2.96	2.90	2.99	2.95	2.91
125.0	4.00	3.82	3.65	3.48	3.61	3.46	3.33	3.21	3.32	3.23	3.15	3.25	3.20	3.15	3.11
130.0	4.39	4.21	4.04	3.88	3.73	3.59	3.47	3.60	3.49	3.40	3.32	3.45	3.39	3.34	3.30
135.0	4.39	4.24	4.09	3.95	3.82	3.99	3.86	3.75	3.65	3.57	3.72	3.65	3.59	3.54	3.50
140.0	4.77	4.63	4.49	4.35	4.22	4.10	3.99	3.89	3.80	3.98	3.90	3.83	3.77	3.73	3.69
145.0	4.77	4.65	4.53	4.42	4.31	4.21	4.11	4.31	4.22	4.14	4.07	4.01	3.96	3.91	4.04
150.0	4.77	4.67	4.58	4.52	4.72	4.63	4.54	4.45	4.37	4.30	4.24	4.18	4.14	4.09	4.10
155.0	5.15	5.07	4.98	4.89	4.81	4.73	4.65	4.58	4.51	4.45	4.40	4.35	4.31	4.36	4.53
160.0	5.15	5.09	5.02	4.95	4.88	4.82	4.76	4.70	4.65	4.60	4.56	4.73	4.53	4.76	4.73
165.0	5.15	5.10	5.05	5.00	4.95	4.91	4.86	4.82	4.97	4.93	4.85	5.01	4.98	4.96	4.94
170.0	5.15	5.14	5.15	5.18	5.25	5.34	5.32	5.29	5.26	5.24	5.21	5.19	5.17	5.15	5.14
175.0	5.54	5.52	5.50	5.48	5.47	5.45	5.43	5.42	5.40	5.39	5.38	5.36	5.35	5.35	5.43
180.0	5.88	5.88	5.88	5.88	5.88	5.88	5.88	5.88	5.88	5.88	5.88	5.88	5.88	5.88	5.88

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

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

LUMINAIRE PHOTOMETRIC TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER: SGSLIGHT LIMITED		Address:	
NAME: LED PANEL		TYPE:	WEIGHT:
SPECIFICATION:TLP-F-3030N-18		DIMENSION: 296X296X11MM	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	509	509	509	509	509	509	509	509	509	509	509	509	509	509	509
5.0	506	506	506	506	506	506	506	506	505	505	505	505	505	505	505
10.0	502	502	502	502	502	502	501	501	500	500	499	499	498	498	497
15.0	491	490	490	490	490	489	489	488	488	488	488	488	488	488	487
20.0	478	478	478	478	477	476	475	475	474	473	472	472	471	471	471
25.0	459	458	458	458	457	456	456	456	455	455	454	454	453	452	451
30.0	438	438	438	438	437	436	436	435	433	432	431	431	430	430	428
35.0	412	411	411	410	409	409	408	408	407	408	408	406	404	402	402
40.0	383	383	383	382	381	380	379	378	377	377	376	376	376	375	373
45.0	350	349	349	348	348	347	346	346	345	345	344	343	342	341	342
50.0	315	315	315	315	314	313	312	311	311	309	308	308	307	305	305
55.0	276	276	276	275	275	274	274	273	273	273	272	271	269	268	266
60.0	237	237	236	236	235	235	234	234	232	232	231	231	231	229	227
65.0	194	194	193	193	193	193	192	192	191	191	190	189	189	188	188
70.0	150	150	150	150	150	150	150	150	149	149	148	148	147	146	146
75.0	108	108	108	108	108	108	108	108	108	108	107	107	107	106	106
80.0	66.1	66.0	65.8	65.7	65.6	65.5	65.7	66.0	66.3	66.8	67.1	67.6	67.7	68.0	67.9
85.0	33.5	33.7	33.7	33.7	33.5	33.4	33.4	33.2	33.1	33.0	33.0	33.0	32.8	32.7	32.2
90.0	1.70	1.70	1.70	1.66	1.66	1.70	1.70	1.70	1.70	1.79	2.30	2.72	3.24	3.75	4.13
95.0	1.90	1.90	1.91	1.89	1.89	1.92	1.90	1.90	1.91	1.96	2.16	2.28	2.39	2.42	2.32
100.0	2.10	2.10	2.13	2.13	2.13	2.13	2.11	2.11	2.12	2.13	2.06	1.90	1.61	1.18	0.58
105.0	2.30	2.31	2.34	2.36	2.36	2.35	2.33	2.31	2.33	2.33	2.04	1.62	1.06	0.19	0.00
110.0	2.49	2.53	2.56	2.60	2.59	2.57	2.57	2.51	2.54	2.57	2.15	1.47	0.67	0.00	0.00
115.0	2.69	2.78	2.77	2.83	2.80	2.78	2.75	2.71	2.75	2.79	2.51	1.51	0.50	0.00	0.00
120.0	2.89	3.00	2.98	3.07	3.01	3.00	2.89	2.91	3.02	2.99	2.86	1.89	0.78	0.00	0.00
125.0	3.08	3.21	3.20	3.30	3.21	3.21	3.20	3.22	3.19	3.20	3.25	2.59	1.23	0.06	0.00
130.0	3.37	3.42	3.41	3.53	3.41	3.42	3.45	3.34	3.34	3.39	3.45	3.29	2.19	0.84	0.00
135.0	3.57	3.64	3.62	3.77	3.62	3.64	3.66	3.69	3.54	3.73	3.65	3.72	3.42	2.21	0.85
140.0	3.75	3.85	3.84	4.00	3.84	3.85	3.87	3.75	3.90	3.77	3.92	3.90	3.98	3.74	2.94
145.0	4.09	4.06	4.05	4.24	4.08	4.12	4.09	4.12	4.15	4.04	4.01	4.17	4.14	4.22	4.31
150.0	4.30	4.28	4.26	4.47	4.37	4.49	4.30	4.32	4.31	4.28	4.28	4.24	4.51	4.37	4.45
155.0	4.50	4.49	4.48	4.71	4.68	4.54	4.50	4.53	4.56	4.54	4.64	4.63	4.45	4.51	4.66
160.0	4.71	4.70	4.76	4.94	4.87	4.70	4.95	4.73	4.76	4.79	4.83	4.65	4.92	4.71	4.95
165.0	4.92	4.91	5.10	5.18	4.98	5.03	4.92	5.19	4.96	4.98	5.01	5.04	5.08	5.12	5.08
170.0	5.13	5.20	5.41	5.41	5.15	5.34	5.25	5.14	5.21	5.47	5.27	5.21	5.24	5.26	5.29
175.0	5.56	5.65	5.65	5.65	5.51	5.37	5.43	5.57	5.63	5.52	5.41	5.38	5.39	5.40	5.45
180.0	5.88	5.88	5.88	5.88	5.88	5.88	5.88	5.88	5.88	5.88	5.88	5.88	5.88	5.88	5.88

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

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

LUMINAIRE PHOTOMETRIC TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER: SGSLIGHT LIMITED	Address:	
NAME: LED PANEL	TYPE:	WEIGHT:
SPECIFICATION:TLP-F-3030N-18	DIMENSION: 296X296X11MM	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	509	509	509	509	509	509	509	509	509	509	509	509	509	509	509
5.0	505	505	505	505	506	506	506	506	505	505	505	504	504	504	504
10.0	497	497	497	497	497	497	498	497	496	496	495	495	495	496	496
15.0	486	486	485	485	485	485	486	485	484	484	484	484	484	485	485
20.0	472	471	470	469	468	468	469	468	467	467	468	468	469	468	467
25.0	451	451	451	450	449	449	449	448	447	447	448	448	447	447	447
30.0	427	427	428	427	425	425	426	424	424	424	424	423	423	423	424
35.0	402	400	400	401	398	397	398	396	396	397	395	395	396	396	395
40.0	371	371	369	369	369	367	368	366	366	366	364	365	364	365	366
45.0	339	338	336	336	336	333	333	332	333	331	330	330	331	332	331
50.0	306	302	300	299	300	298	297	296	296	294	293	294	296	294	294
55.0	265	266	263	260	260	259	257	256	255	254	255	256	255	255	256
60.0	226	224	224	221	219	219	216	216	214	213	215	214	214	214	216
65.0	186	183	182	182	177	177	173	174	170	173	171	171	173	174	174
70.0	145	144	141	139	136	134	131	130	129	129	129	131	131	131	132
75.0	104	103	103	99.6	97.7	93.7	90.0	89.9	91.4	88.5	89.6	90.2	90.3	91.4	92.3
80.0	67.9	66.4	64.0	63.3	59.9	56.4	51.8	50.6	50.1	50.6	51.5	53.0	53.8	54.0	55.3
85.0	31.2	30.9	31.1	31.6	29.0	21.9	9.93	12.7	18.1	20.6	20.8	20.7	20.7	22.2	23.5
90.0	3.62	3.36	3.49	3.58	3.07	2.21	2.13	1.87	1.87	1.83	1.83	1.87	1.87	1.91	1.96
95.0	2.04	1.77	1.37	0.58	0.00	0.16	1.49	1.68	1.83	1.89	1.88	1.92	1.97	2.02	2.02
100.0	0.32	0.28	0.00	0.00	0.00	0.00	1.49	1.83	1.83	1.97	1.90	2.05	2.08	2.13	2.09
105.0	0.00	0.00	0.00	0.00	0.00	0.00	1.83	2.07	2.06	1.87	2.03	2.15	2.15	2.23	2.26
110.0	0.00	0.00	0.00	0.00	0.00	0.00	2.21	1.99	1.95	2.10	2.27	2.26	2.38	2.26	2.34
115.0	0.00	0.00	0.00	0.00	0.00	0.00	2.26	2.21	2.41	2.39	2.37	2.48	2.46	2.46	2.42
120.0	0.00	0.00	0.00	0.00	0.00	0.00	2.64	2.58	2.54	2.48	2.67	2.60	2.46	2.53	2.63
125.0	0.00	0.00	0.00	0.00	0.00	0.00	3.07	2.97	2.89	2.81	2.58	2.72	2.65	2.78	2.72
130.0	0.00	0.00	0.00	0.00	0.00	0.00	2.72	2.67	2.63	2.96	2.83	2.77	2.92	2.86	2.83
135.0	0.00	0.00	0.00	0.00	0.00	0.00	3.11	3.04	2.98	3.18	3.13	3.06	3.00	3.10	3.13
140.0	1.68	0.47	0.00	0.00	0.00	0.00	3.45	3.38	3.31	3.24	3.18	3.23	3.35	3.28	3.23
145.0	3.95	3.45	2.41	1.70	1.09	0.61	3.83	3.76	3.69	3.61	3.55	3.48	3.42	3.37	3.32
150.0	4.54	4.63	4.72	4.56	4.46	4.43	3.83	3.77	3.71	3.65	3.59	3.54	3.49	3.44	3.40
155.0	4.83	4.73	4.81	4.89	4.98	5.07	3.83	3.78	3.73	3.69	3.64	3.60	3.55	3.51	3.79
160.0	4.76	4.82	4.88	4.95	5.02	5.09	3.83	3.82	3.87	3.97	4.04	3.99	3.95	3.91	3.88
165.0	4.88	5.11	5.29	5.19	5.14	5.13	4.22	4.18	4.15	4.12	4.08	4.05	4.02	3.99	3.97
170.0	5.32	5.36	5.39	5.43	5.46	5.50	4.22	4.19	4.17	4.15	4.13	4.11	4.09	4.07	4.05
175.0	5.54	5.62	5.70	5.76	5.81	5.85	4.22	4.21	4.19	4.18	4.17	4.16	4.15	4.14	4.13
180.0	5.88	5.88	5.88	5.88	5.88	5.88	4.22	4.22	4.22	4.22	4.22	4.22	4.22	4.22	4.22

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

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

LUMINAIRE PHOTOMETRIC TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER: SGSLIGHT LIMITED	Address:	
NAME: LED PANEL	TYPE:	WEIGHT:
SPECIFICATION:TLP-F-3030N-18	DIMENSION: 296X296X11MM	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	509	509	509	509	509	509	509	509	509	509	509	509	509	509	509
5.0	504	504	504	504	504	504	504	504	504	504	504	504	505	505	505
10.0	496	496	497	497	498	498	499	499	499	499	499	499	500	500	500
15.0	485	485	484	484	484	485	485	485	486	486	486	486	487	488	488
20.0	467	467	468	468	469	469	470	471	472	472	473	473	474	474	474
25.0	447	449	449	448	448	449	449	450	450	451	451	452	453	454	455
30.0	423	423	424	424	425	426	427	428	429	429	430	431	431	431	432
35.0	396	397	399	398	398	398	399	400	400	401	402	403	403	404	405
40.0	367	366	366	367	367	368	369	370	372	373	373	374	375	376	376
45.0	332	332	333	334	334	335	335	336	337	338	339	340	341	342	343
50.0	296	296	296	297	298	299	300	301	302	303	304	305	305	306	307
55.0	256	258	259	259	260	260	261	262	262	263	264	265	266	267	268
60.0	217	217	217	218	219	220	221	221	223	223	224	225	226	227	228
65.0	174	175	175	176	177	178	178	179	180	181	182	182	183	184	186
70.0	132	133	134	135	135	136	136	137	137	138	139	139	140	141	142
75.0	92.9	93.3	93.7	94.4	94.8	95.3	95.7	96.3	96.8	97.3	97.9	98.5	99.1	99.7	100
80.0	55.3	55.5	55.4	55.6	55.6	55.6	55.7	55.9	56.3	56.7	57.2	57.9	58.5	59.3	59.9
85.0	24.5	25.4	26.2	26.9	27.4	27.9	28.3	28.7	29.0	29.3	29.5	29.7	29.8	29.8	29.7
90.0	1.96	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91
95.0	2.05	2.03	2.04	2.04	2.03	2.03	2.05	2.04	2.04	2.04	2.04	2.04	2.03	2.03	2.03
100.0	2.14	2.14	2.17	2.16	2.15	2.15	2.18	2.17	2.17	2.17	2.17	2.17	2.14	2.14	2.15
105.0	2.26	2.24	2.30	2.28	2.27	2.30	2.31	2.30	2.30	2.30	2.30	2.30	2.28	2.25	2.27
110.0	2.38	2.35	2.42	2.40	2.38	2.46	2.44	2.43	2.43	2.43	2.43	2.43	2.44	2.37	2.38
115.0	2.48	2.50	2.55	2.52	2.49	2.59	2.57	2.56	2.56	2.55	2.56	2.56	2.57	2.48	2.49
120.0	2.58	2.70	2.66	2.63	2.61	2.72	2.70	2.69	2.68	2.68	2.68	2.69	2.70	2.59	2.61
125.0	2.79	2.82	2.78	2.74	2.72	2.85	2.83	2.82	2.81	2.81	2.81	2.82	2.83	2.70	2.72
130.0	2.98	2.93	2.89	2.85	3.01	2.98	2.96	2.95	2.94	2.94	2.94	2.95	2.96	2.80	2.83
135.0	3.08	3.03	2.99	2.96	3.14	3.11	3.09	3.08	3.07	3.07	3.07	3.07	3.08	3.09	3.11
140.0	3.18	3.13	3.10	3.30	3.26	3.24	3.22	3.20	3.20	3.19	3.20	3.20	3.22	3.24	3.04
145.0	3.27	3.23	3.40	3.42	3.39	3.36	3.34	3.33	3.32	3.32	3.32	3.32	3.33	3.34	3.38
150.0	3.36	3.61	3.57	3.54	3.51	3.49	3.47	3.46	3.45	3.45	3.45	3.46	3.47	3.49	3.51
155.0	3.75	3.71	3.68	3.65	3.63	3.61	3.60	3.59	3.58	3.58	3.58	3.59	3.60	3.61	3.63
160.0	3.85	3.82	3.79	3.77	3.75	3.73	3.72	3.71	3.71	3.70	3.71	3.71	3.72	3.73	3.75
165.0	3.94	3.92	3.90	3.88	3.87	3.86	3.85	3.84	3.83	3.83	3.83	3.84	3.85	3.86	3.87
170.0	4.03	4.02	4.01	3.99	3.98	3.98	3.97	3.96	3.96	3.96	3.96	3.96	3.97	3.98	3.98
175.0	4.13	4.12	4.11	4.11	4.10	4.10	4.09	4.09	4.09	4.09	4.09	4.09	4.09	4.10	4.10
180.0	4.22	4.22	4.22	4.22	4.22	4.22	4.22	4.22	4.22	4.22	4.22	4.22	4.22	4.22	4.22

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

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

LUMINAIRE PHOTOMETRIC TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

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

UNIT: cd

γ (DEG)	C (DEG)											
	300	305	310	315	320	325	330	335	340	345	350	355
0.0	509	509	509	509	509	509	509	509	509	509	509	509
5.0	505	505	506	506	506	506	507	507	507	508	508	509
10.0	500	500	500	500	500	500	501	501	501	502	502	503
15.0	489	489	490	490	491	491	491	491	491	492	492	493
20.0	474	474	475	475	476	477	478	478	478	478	479	480
25.0	456	457	458	458	458	459	459	460	460	460	460	462
30.0	432	433	434	436	438	437	437	438	439	439	439	440
35.0	407	408	408	409	410	412	414	413	413	414	414	415
40.0	377	377	378	380	381	381	383	385	384	385	386	386
45.0	345	346	346	347	348	349	350	352	354	353	353	354
50.0	308	309	311	314	313	313	315	316	318	319	319	319
55.0	269	271	271	272	275	277	276	278	279	284	281	281
60.0	228	229	230	232	233	234	238	238	238	240	242	241
65.0	187	188	189	190	190	191	193	197	197	197	203	199
70.0	143	144	145	147	148	149	149	150	154	155	156	157
75.0	101	101	102	103	104	106	107	109	109	112	113	118
80.0	60.8	61.6	62.5	63.3	64.1	64.2	64.1	66.2	69.0	71.0	72.8	74.1
85.0	29.7	29.6	29.6	29.5	29.4	29.4	29.1	29.9	30.4	30.9	33.9	36.5
90.0	1.91	1.91	1.96	1.96	2.00	1.96	1.96	1.91	1.91	1.91	1.91	1.91
95.0	2.02	2.02	2.04	2.02	2.03	2.01	1.96	1.91	1.85	1.75	1.57	1.34
100.0	2.13	2.12	2.12	2.08	2.09	2.07	2.00	1.86	1.78	1.62	1.35	1.10
105.0	2.28	2.22	2.20	2.13	2.11	2.11	2.06	1.96	1.89	1.72	1.43	1.30
110.0	2.40	2.32	2.28	2.30	2.21	2.17	2.13	2.06	1.95	1.88	1.58	1.59
115.0	2.52	2.42	2.39	2.38	2.26	2.17	2.22	2.12	2.10	1.96	1.66	1.78
120.0	2.63	2.55	2.55	2.46	2.49	2.34	2.31	2.28	2.23	2.18	2.10	1.96
125.0	2.74	2.78	2.64	2.62	2.56	2.57	2.42	2.26	2.35	2.30	2.32	2.32
130.0	2.85	2.89	2.83	2.76	2.64	2.67	2.71	2.50	2.54	2.38	2.62	2.44
135.0	2.96	2.99	3.03	2.85	2.89	2.86	2.77	2.81	2.87	2.60	2.64	2.68
140.0	3.07	3.10	3.13	3.18	3.10	3.01	3.06	2.95	2.90	2.95	3.00	3.05
145.0	3.17	3.20	3.23	3.27	3.32	3.37	3.19	3.17	3.22	3.27	3.33	3.39
150.0	3.41	3.29	3.32	3.36	3.40	3.44	3.49	3.54	3.59	3.65	3.53	3.45
155.0	3.65	3.67	3.41	3.44	3.48	3.51	3.55	3.60	3.64	3.69	3.73	3.78
160.0	3.77	3.79	3.82	3.85	3.55	3.58	3.61	3.65	3.68	3.72	3.76	3.79
165.0	3.88	3.90	3.92	3.94	3.97	3.99	4.02	4.05	4.06	3.94	3.86	3.83
170.0	3.99	4.01	4.02	4.03	4.05	4.07	4.09	4.11	4.13	4.15	4.17	4.19
175.0	4.11	4.11	4.12	4.13	4.13	4.14	4.15	4.16	4.17	4.18	4.19	4.21
180.0	4.22	4.22	4.22	4.22	4.22	4.22	4.22	4.22	4.22	4.22	4.22	4.22

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

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