

LUMINAIRE PHOTOMETRIC TEST REPORT

LAMP PHOTOMETRIC REPORT

MODEL: TLP-F-3060N-18

POWER: 18W

VOLTAGE: 230V

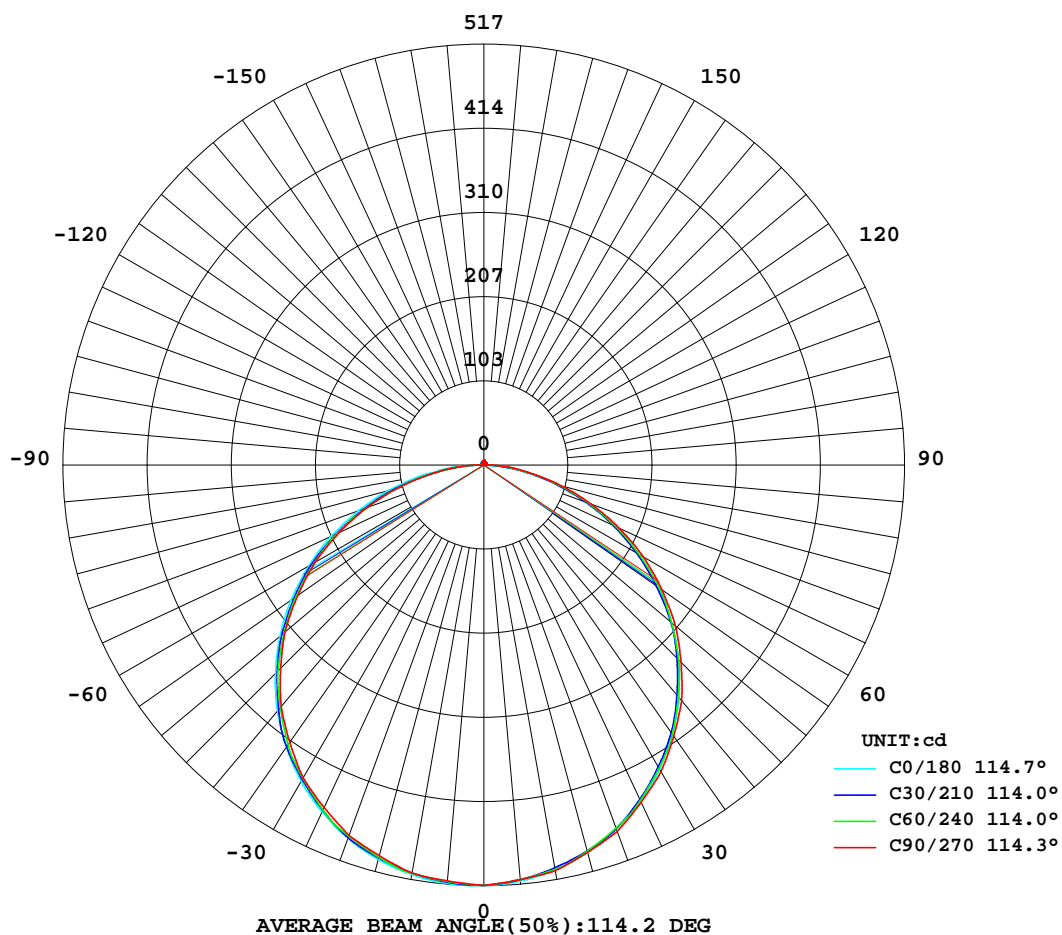
WORKING VOLTAGE: 219.0V

MANUFACTURER: SGSLIGHT LIMITED

TOTAL FLUX: 1521.3 lm

Efficiency: 81.224 lm/W

Test: U: 230.1V I: 0.085A P: 18.73W PF: 0.949



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

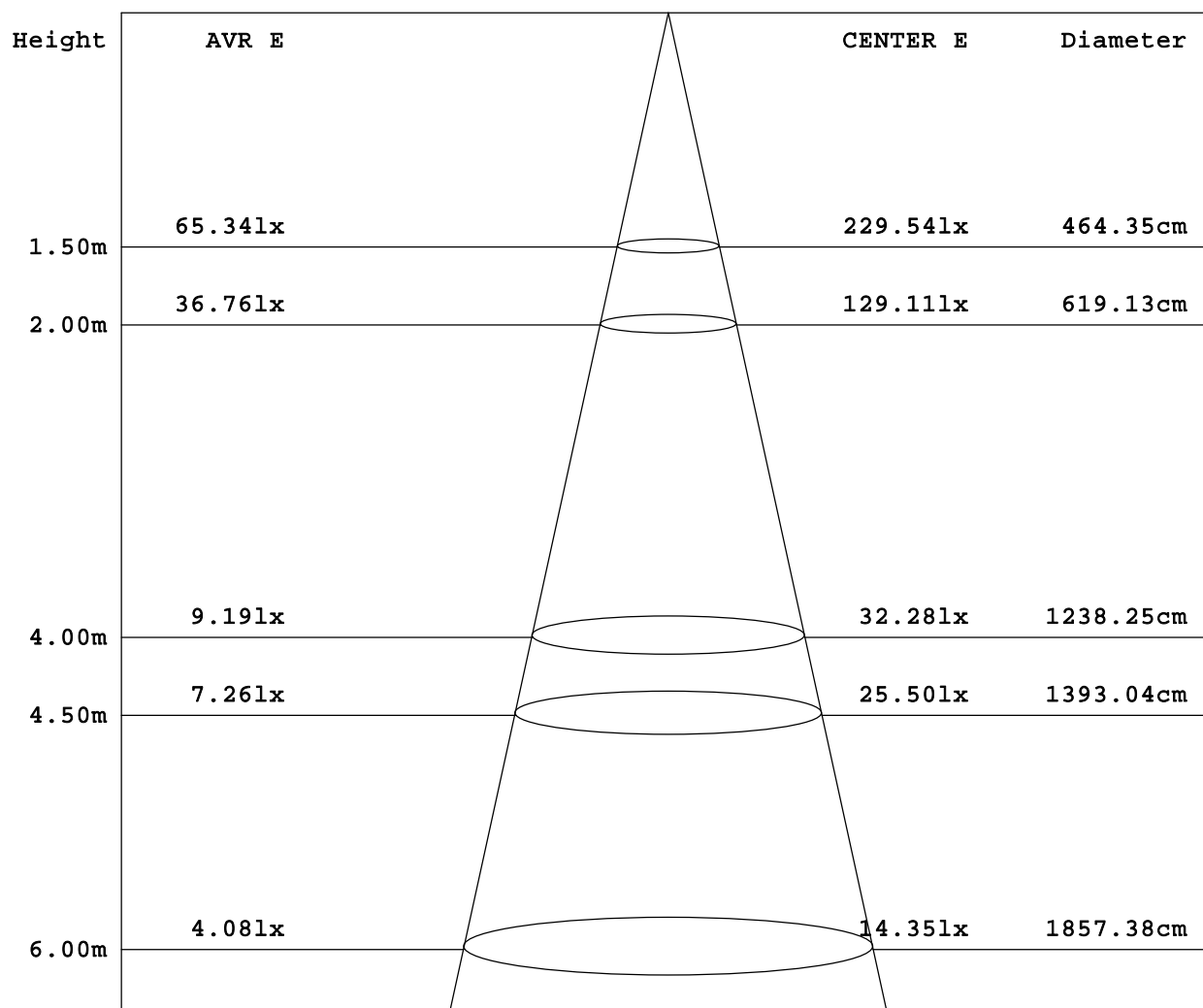
Test Set: 7.0deg/s B-Beta (TYPE B)
Humidity:65.0%
Test Distance:7.000 m
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER: SGSLIGHT LIMITED	Address:	
NAME: LED PANEL	TYPE:	WEIGHT:
SPECIFICATION:TLP-F-3060N-18	DIMENSION: 296X596X11MM	SERIAL No.:



Angle:114.3deg

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

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-3060N-18		DIMENSION: 296X596X11MM	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	zone	total
5.0	516.1	513.9	512.9	512.0	513.2	511.1	511.2	513.0	0- 5	12.29	12.29
10.0	510.9	509.0	509.3	505.2	504.6	503.1	506.1	507.1	5- 10	36.46	48.75
15.0	501.5	500.3	496.8	495.3	492.8	491.8	492.6	497.4	10- 15	59.44	108.1
20.0	488.0	485.0	484.3	478.0	475.6	473.8	479.1	481.7	15- 20	80.41	188.6
25.0	470.1	468.4	464.2	459.0	455.8	453.7	457.2	464.6	20- 25	98.78	287.4
30.0	448.6	446.7	444.1	436.0	431.9	429.2	435.3	442.0	25- 30	113.8	401.2
35.0	423.0	419.8	415.8	409.3	403.7	401.3	406.6	414.3	30- 35	125.2	526.5
40.0	394.4	391.3	387.5	381.4	372.7	371.9	378.0	385.1	35- 40	132.4	658.9
45.0	361.7	357.9	353.2	346.9	337.9	336.3	342.6	351.8	40- 45	135.2	794.1
50.0	327.3	324.1	319.0	311.0	301.1	299.7	307.2	318.0	45- 50	133.5	927.7
55.0	289.5	282.5	279.2	272.4	260.4	259.7	266.9	276.1	50- 55	127.4	1055
60.0	248.5	241.3	239.3	234.1	219.5	219.9	226.6	234.9	55- 60	116.9	1172
65.0	207.2	198.7	195.7	191.2	175.4	176.6	183.2	192.1	60- 65	102.6	1275
70.0	163.5	155.0	152.2	149.1	132.9	134.2	139.9	148.7	65- 70	85.13	1360
75.0	121.0	109.4	109.4	108.8	91.33	94.27	98.74	104.0	70- 75	65.52	1425
80.0	79.95	68.73	66.68	68.71	52.54	56.09	57.55	64.25	75- 80	44.99	1470
85.0	42.68	32.66	34.18	33.35	10.07	24.90	29.75	29.96	80- 85	25.20	1496
90.0	4.108	1.729	1.686	3.286	2.162	1.989	1.945	1.989	85- 90	8.540	1504
95.0	2.551	1.943	1.924	2.424	1.513	2.080	2.075	2.050	90- 95	1.099	1505
100.0	2.551	2.153	2.162	1.635	1.513	2.170	2.205	2.110	95-100	1.031	1506
105.0	2.940	2.357	2.400	1.081	1.859	2.301	2.335	2.168	100-105	1.037	1507
110.0	3.329	2.554	2.637	0.682	2.248	2.417	2.464	2.342	105-110	1.077	1508
115.0	3.675	2.885	2.875	0.506	2.291	2.523	2.594	2.422	110-115	1.115	1509
120.0	3.675	3.086	3.113	0.789	2.681	2.624	2.724	2.498	115-120	1.152	1511
125.0	4.064	3.276	3.351	1.249	3.113	2.836	2.854	2.659	120-125	1.176	1512
130.0	4.454	3.455	3.589	2.223	2.767	3.024	2.983	2.808	125-130	1.186	1513
135.0	4.454	3.623	3.827	3.473	3.156	3.129	3.113	2.892	130-135	1.183	1514
140.0	4.843	4.038	4.064	4.038	3.502	3.228	3.243	3.228	135-140	1.171	1515
145.0	4.843	4.207	4.302	4.207	3.891	3.322	3.372	3.322	140-145	1.153	1517
150.0	4.843	4.368	4.540	4.574	3.891	3.411	3.502	3.411	145-150	1.134	1518
155.0	5.232	4.522	4.778	4.522	3.891	3.807	3.632	3.497	150-155	1.043	1519
160.0	5.232	4.670	5.016	4.996	3.891	3.906	3.762	3.906	155-160	0.897	1520
165.0	5.232	5.001	5.254	5.157	4.281	4.002	3.891	4.002	160-165	0.734	1520
170.0	5.232	5.314	5.491	5.314	4.281	4.096	4.021	4.096	165-170	0.551	1521
175.0	5.621	5.468	5.729	5.468	4.281	4.189	4.151	4.189	170-175	0.344	1521
180.0	5.967	5.967	5.967	5.967	4.281	4.281	4.281	4.281	175-180	0.118	1521
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

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

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

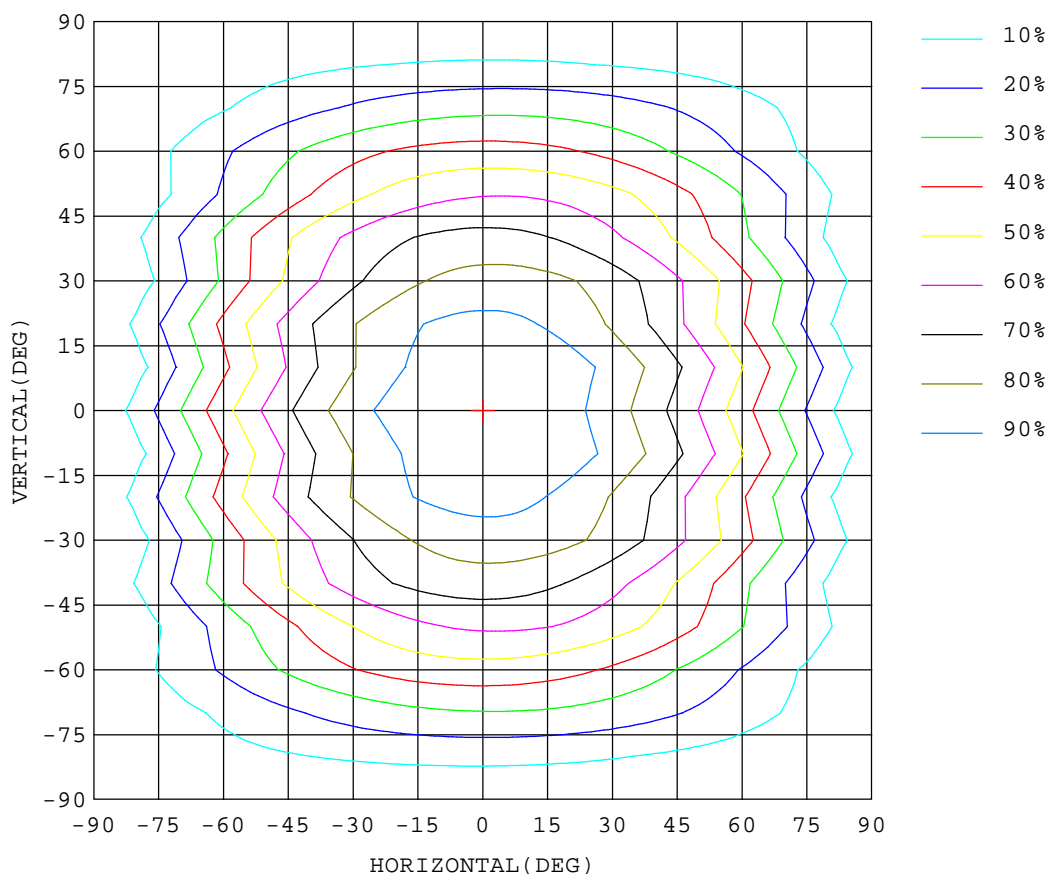
LUMINAIRE PHOTOMETRIC TEST REPORT

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: SGSLIGHT LIMITED	Address:	
NAME: LED PANEL	TYPE:	WEIGHT:
SPECIFICATION:TLP-F-3060N-18	DIMENSION: 296X596X11MM	SERIAL No.:

UNIT: cd



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

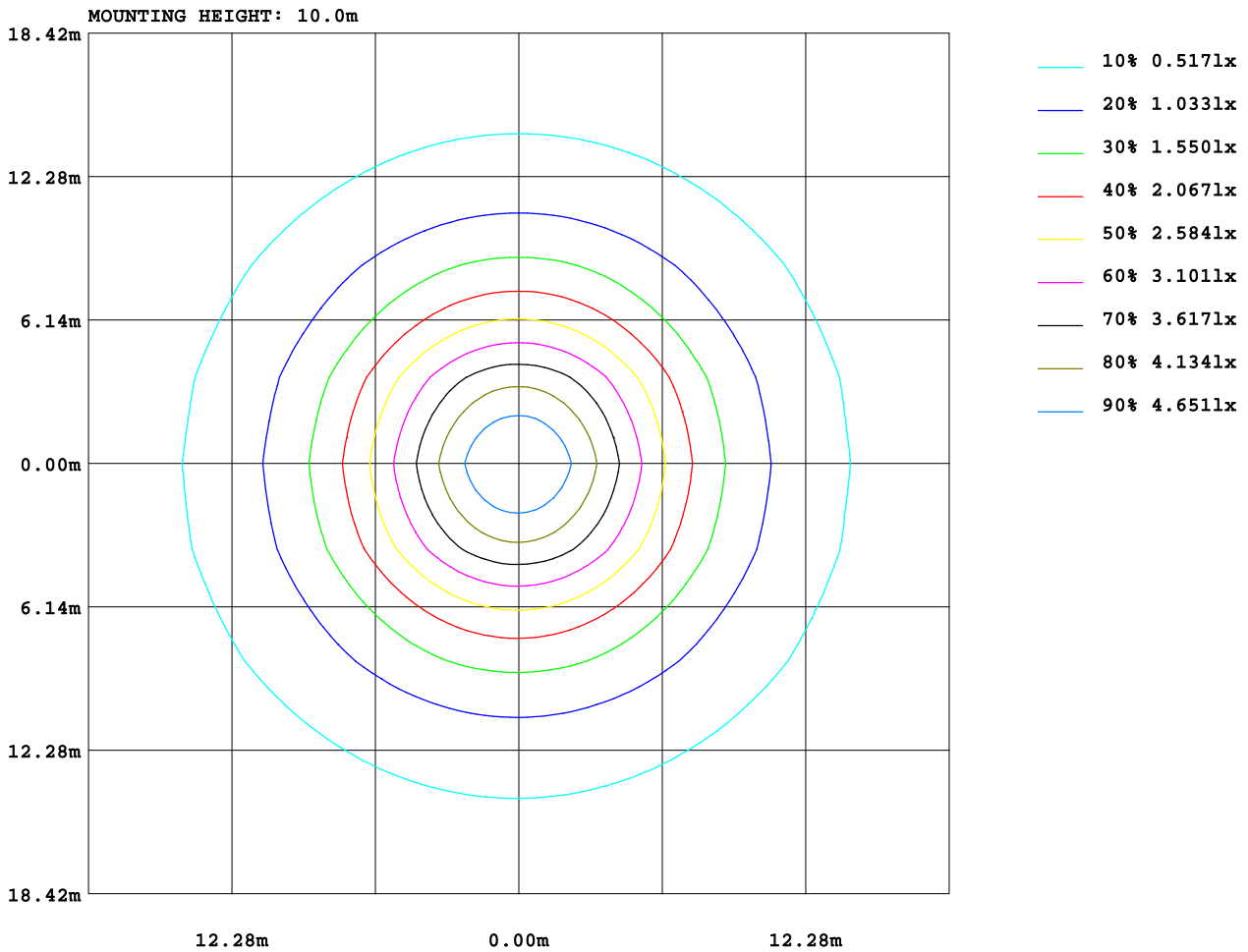
Test Set: 7.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
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 Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

ISOLUX DIAGRAM

Report number:

MANUFACTURER: SGSLIGHT LIMITED	Address:	
NAME: LED PANEL	TYPE:	WEIGHT:
SPECIFICATION:TLP-F-3060N-18	DIMENSION: 296X596X11MM	SERIAL No.:



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

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-3060N-18										DIMENSION: 296X596X11MM					SERIAL No.:				

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.01	0.01	0.02	0.03	0.04	0.05	0.05	0.05	0.06	0.06	0.05	0.05	0.05	0.04	0.04	0.03	0.02	0.01	0.65	0.65
90	0.01	0.11	0.35	0.71	1.15	1.62	2.05	2.37	2.56	2.59	2.43	2.12	1.71	1.26	0.81	0.43	0.16	0.02	22.5	22.5
80	0.01	0.16	0.61	1.30	2.22	3.20	4.14	4.90	5.37	5.48	5.22	4.63	3.79	2.81	1.84	1.00	0.40	0.07	47.2	47.2
70	0.05	0.46	1.27	2.47	3.89	5.37	6.69	7.66	8.17	8.14	7.57	6.54	5.19	3.72	2.32	1.16	0.39	0.03	71.1	71.1
60	0.01	0.31	1.16	2.56	4.33	6.23	8.01	9.44	10.3	10.5	10.0	8.98	7.41	5.55	3.66	2.00	0.79	0.14	91.5	91.5
50	0.11	0.78	2.11	4.01	6.23	8.46	10.4	11.8	12.5	12.4	11.5	10.0	7.97	5.74	3.57	1.77	0.58	0.05	110	110
40	0.01	0.41	1.60	3.51	5.89	8.42	10.7	12.6	13.7	14.0	13.4	12.0	9.98	7.54	5.03	2.78	1.11	0.20	123	123
30	0.15	1.00	2.67	5.01	7.69	10.3	12.6	14.3	15.1	15.0	13.9	12.0	9.64	6.94	4.33	2.14	0.67	0.06	134	134
20	0.02	0.47	1.82	3.96	6.63	9.45	12.0	14.1	15.4	15.7	15.0	13.5	11.2	8.48	5.68	3.16	1.27	0.23	138	138
10	0.16	1.09	2.86	5.31	8.10	10.8	13.2	15.0	15.8	15.6	14.5	12.5	9.98	7.17	4.45	2.19	0.68	0.05	140	140
0	0.02	0.46	1.76	3.84	6.43	9.17	11.7	13.7	15.0	15.3	14.6	13.1	10.9	8.26	5.53	3.08	1.24	0.23	135	135
-10	0.16	1.01	2.61	4.82	7.35	9.85	12.0	13.5	14.3	14.1	13.1	11.3	8.99	6.43	3.97	1.94	0.59	0.05	126	126
-20	0.01	0.38	1.45	3.18	5.35	7.66	9.81	11.5	12.5	12.8	12.3	11.0	9.14	6.90	4.61	2.56	1.03	0.19	113	113
-30	0.13	0.78	1.99	3.67	5.60	7.51	9.17	10.3	10.9	10.7	9.94	8.55	6.75	4.79	2.92	1.41	0.43	0.03	95.7	95.7
-40	0.01	0.25	0.96	2.07	3.51	5.06	6.53	7.71	8.44	8.64	8.27	7.38	6.10	4.58	3.04	1.68	0.69	0.13	75.1	75.1
-50	0.08	0.46	1.15	2.06	3.12	4.19	5.11	5.78	6.07	5.96	5.46	4.65	3.62	2.53	1.52	0.72	0.22	0.01	52.7	52.7
-60	0.00	0.11	0.37	0.80	1.33	1.90	2.46	2.92	3.21	3.30	3.16	2.81	2.32	1.75	1.18	0.66	0.28	0.06	28.6	28.6
-70	0.03	0.11	0.24	0.39	0.52	0.63	0.72	0.78	0.80	0.77	0.69	0.58	0.46	0.32	0.20	0.10	0.03	0.00	7.35	7.35
-80	0.03	0.11	0.24	0.39	0.52	0.63	0.72	0.78	0.80	0.77	0.69	0.58	0.46	0.32	0.20	0.10	0.03	0.00	7.35	7.35
-90	0.03	0.11	0.24	0.39	0.52	0.63	0.72	0.78	0.80	0.77	0.69	0.58	0.46	0.32	0.20	0.10	0.03	0.00	7.35	7.35
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)	20	30	40	50	60	70	80	90			
Φ t	0.95	8.37	25.0	49.7	79.4	110	138	159	171	172	162	142	115	84.8	54.7	28.8	10.6	1.54	1521	
Φ a	0.95	8.37	25.0	49.7	79.4	110	138	159	171	172	162	142	115	84.8	54.7	28.8	10.6	1.54		1521

Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:TOM CHEN
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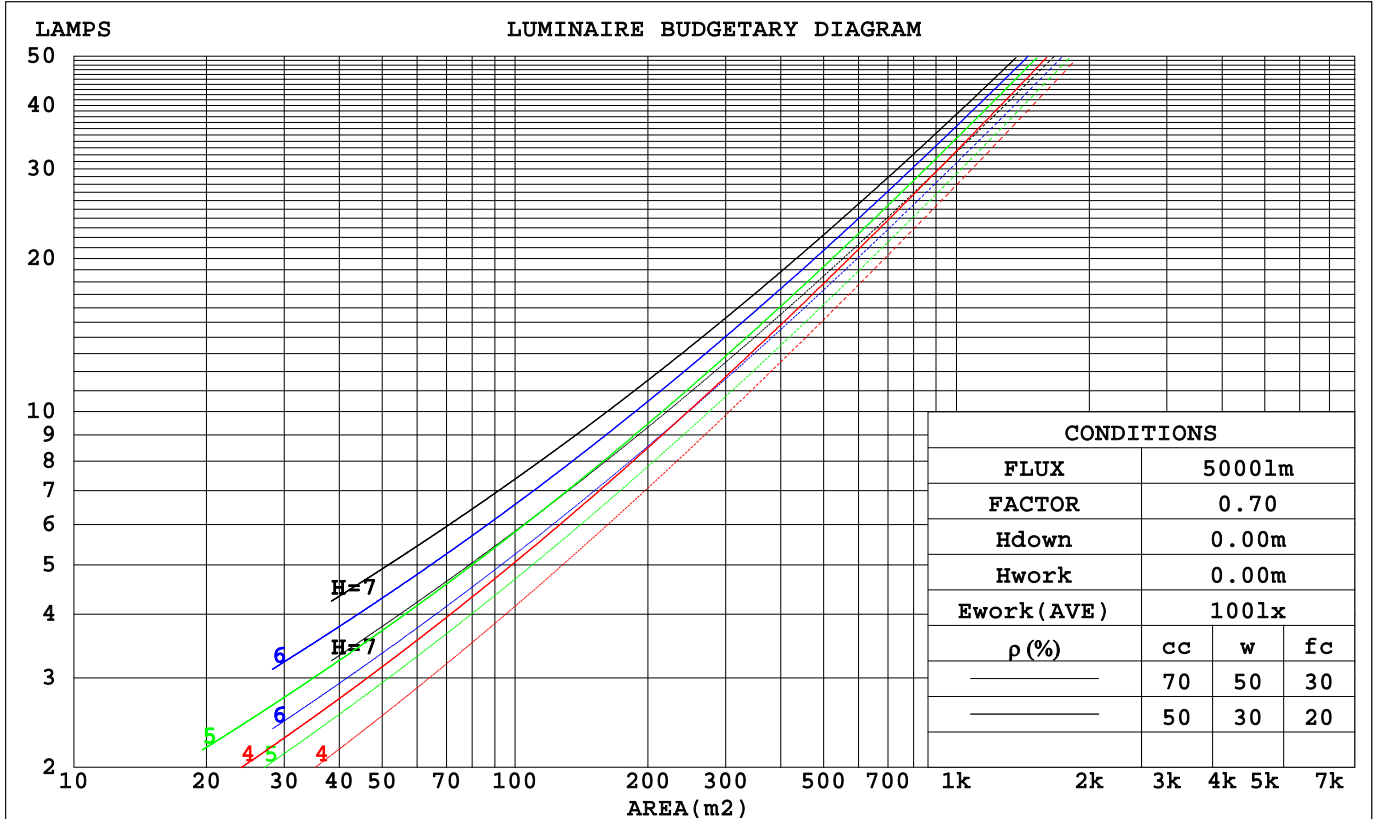
LUMINAIRE PHOTOMETRIC TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER: SGSLIGHT LIMITED				Address:							
NAME: LED PANEL				TYPE:				WEIGHT:			
SPECIFICATION:TLP-F-3060N-18				DIMENSION: 296X596X11MM				SERIAL No.:			

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



Test System:HOPOO HPG1900
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 Operators:TOM CHEN
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Test Set: 7.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

WEC AND CCEC

Report number:

MANUFACTURER: SGSLIGHT LIMITED	Address:		
NAME: LED PANEL	TYPE:	WEIGHT:	
SPECIFICATION:TLP-F-3060N-18	DIMENSION: 296X596X11MM	SERIAL No.:	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.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:2015-04-13

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-3060N-18					DIMENSION: 296X596X11MM			SERIAL No.:		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	16.5	18.1	16.8	18.3	18.5	16.4	17.9	16.7	18.1	18.4
3H	18.2	19.6	18.5	19.8	20.1	18.0	19.4	18.3	19.6	19.9
4H	18.9	20.2	19.2	20.5	20.8	18.6	20.0	19.0	20.2	20.5
6H	19.4	20.7	19.8	21.0	21.3	19.1	20.4	19.5	20.7	21.0
8H	19.6	20.9	20.0	21.2	21.5	19.3	20.5	19.6	20.8	21.1
12H	19.8	21.0	20.2	21.3	21.6	19.4	20.6	19.8	20.9	21.2
4H 2H	17.1	18.5	17.5	18.8	19.0	17.0	18.4	17.4	18.7	18.9
3H	19.0	20.1	19.3	20.4	20.8	18.8	20.0	19.2	20.3	20.6
4H	19.8	20.9	20.2	21.2	21.6	19.6	20.6	20.0	21.0	21.3
6H	20.5	21.4	20.9	21.8	22.2	20.2	21.1	20.6	21.5	21.9
8H	20.7	21.6	21.2	22.0	22.4	20.4	21.3	20.8	21.7	22.1
12H	20.9	21.8	21.4	22.2	22.6	20.6	21.4	21.0	21.8	22.3
8H 4H	20.1	20.9	20.5	21.3	21.7	19.9	20.8	20.3	21.1	21.6
6H	20.9	21.6	21.4	22.1	22.5	20.6	21.4	21.1	21.8	22.2
8H	21.2	21.9	21.7	22.3	22.8	21.0	21.6	21.4	22.1	22.5
12H	21.5	22.1	22.0	22.6	23.1	21.3	21.8	21.7	22.3	22.8
12H 4H	20.1	20.9	20.5	21.3	21.7	19.9	20.7	20.3	21.1	21.5
6H	21.0	21.6	21.4	22.1	22.5	20.7	21.4	21.2	21.8	22.3
8H	21.3	21.9	21.8	22.4	22.9	21.1	21.6	21.6	22.1	22.6
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 1521 lm Total Lamp Luminous Flux. (8log(F/F0) = 1.5)

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

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-3060N-18	DIMENSION: 296X596X11MM	SERIAL No.:

REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	57	45	38	56	45	38	55	44	38	31
0.80	67	55	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:2015-04-13

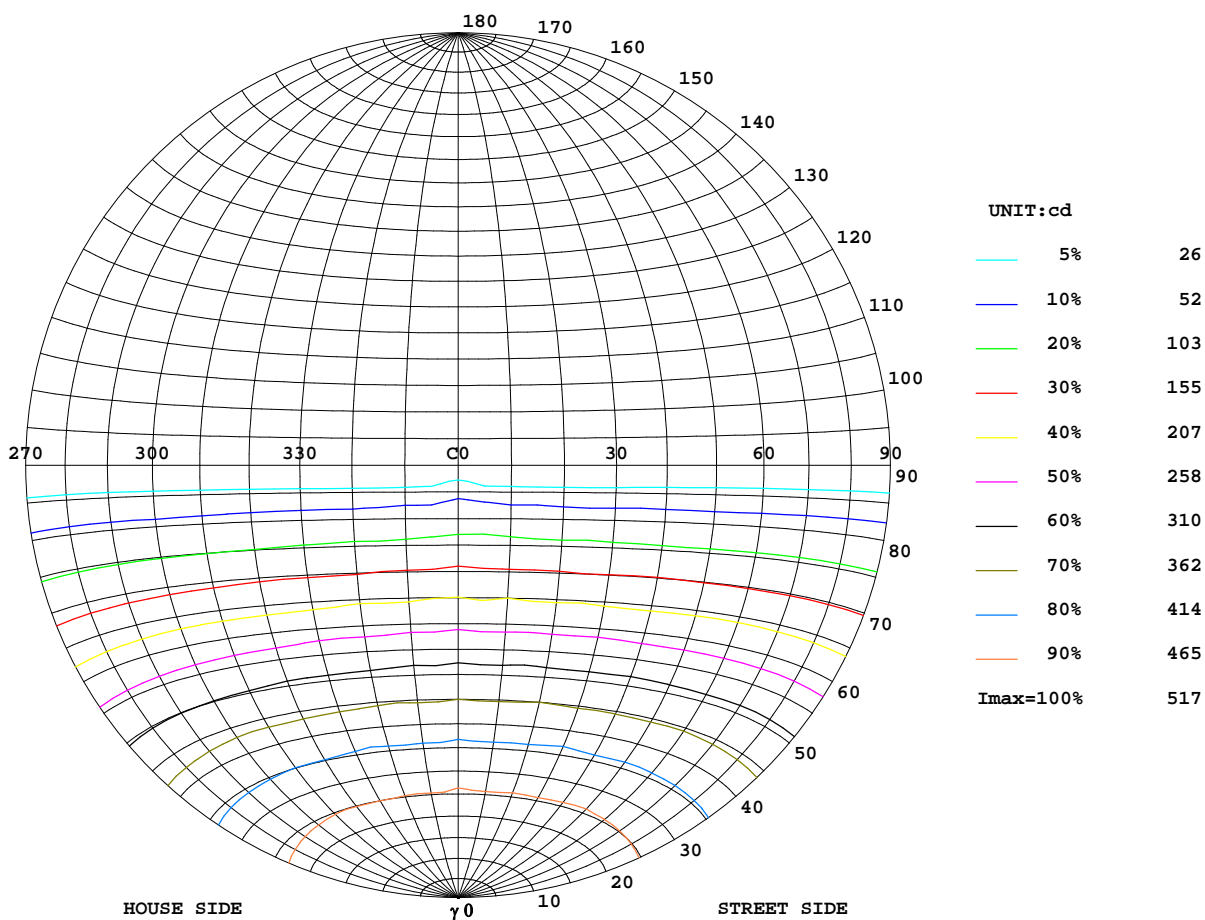
Test Set: 7.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: SGSLIGHT LIMITED	Address:	
NAME: LED PANEL	TYPE:	WEIGHT:
SPECIFICATION:TLP-F-3060N-18	DIMENSION: 296X596X11MM	SERIAL No.:



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

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

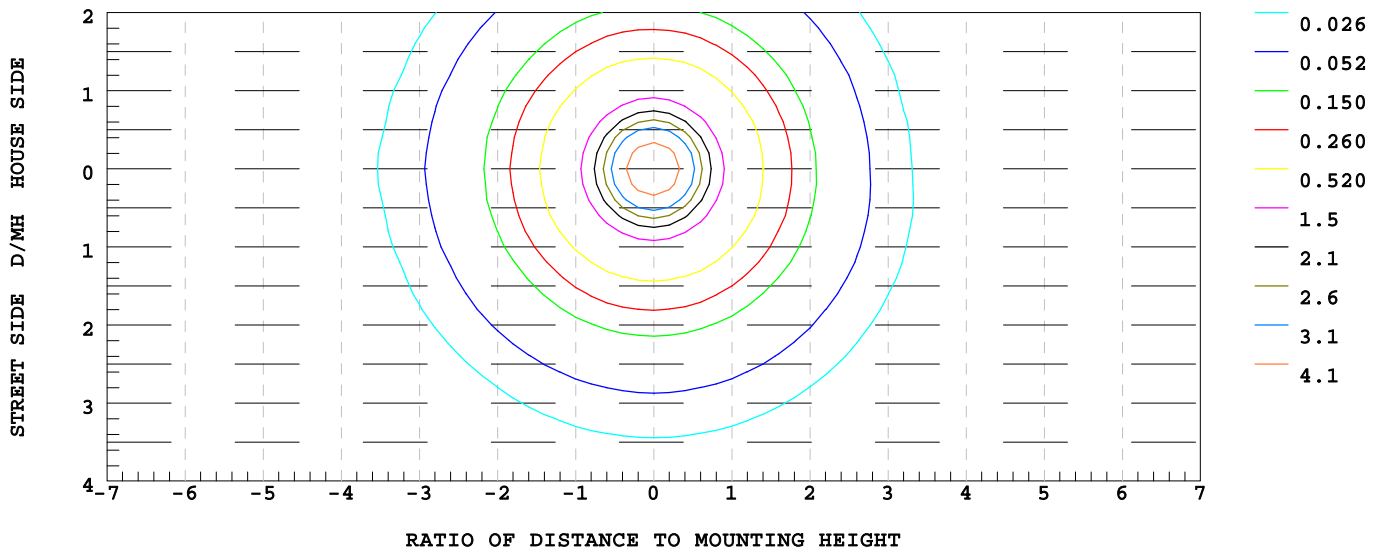
LUMINAIRE PHOTOMETRIC TEST REPORT

ISOLUX DIAGRAM

Report number:

MANUFACTURER: SGSLIGHT LIMITED	Address:	
NAME: LED PANEL	TYPE:	WEIGHT:
SPECIFICATION:TLP-F-3060N-18	DIMENSION: 296X596X11MM	SERIAL No.:

ILLUMINANCE AT MH=10 m, Enadir = 5.16 lx



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

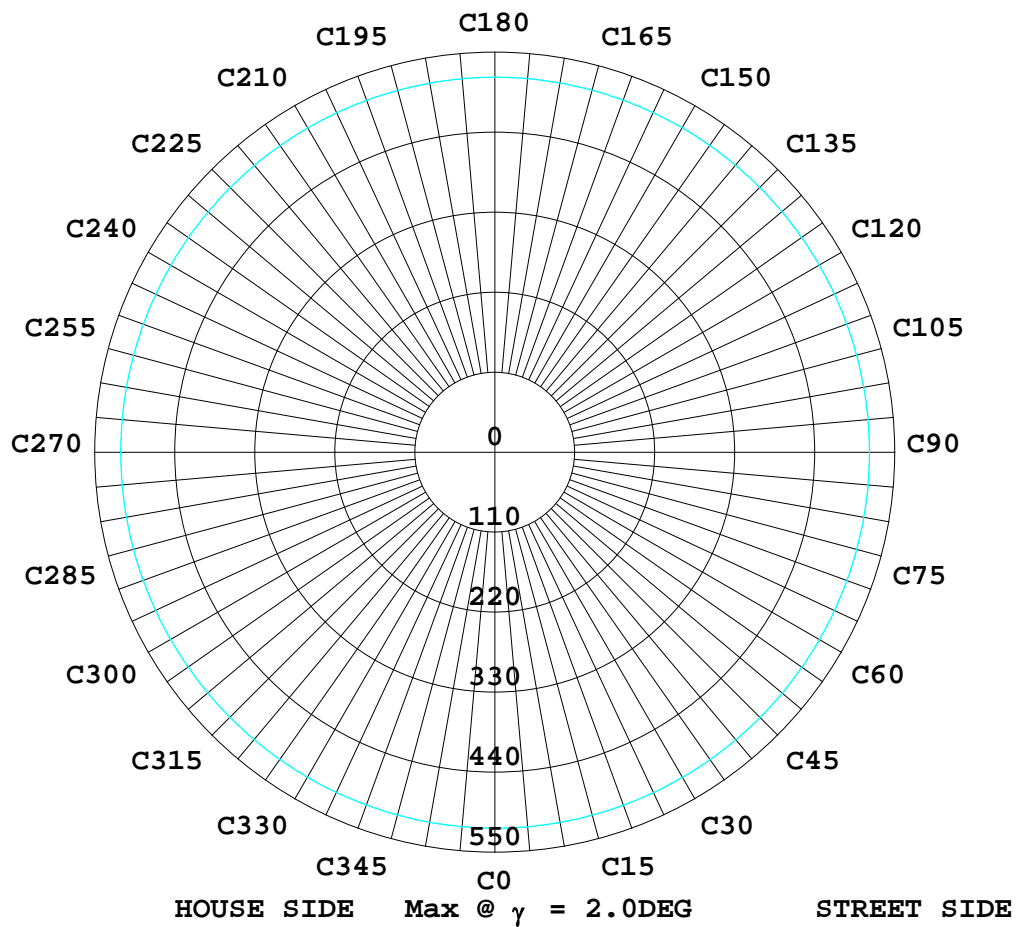
Test Set: 7.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: SGSLIGHT LIMITED	Address:	
NAME: LED PANEL	TYPE:	WEIGHT:
SPECIFICATION:TLP-F-3060N-18	DIMENSION: 296X596X11MM	SERIAL No.:



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

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-3060N-18		DIMENSION: 296X596X11MM	SERIAL No.:

UNIT: cd

γ (DEG)	C(DEG)														
	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70
0.0	516	516	516	516	516	516	516	516	516	516	516	516	516	516	516
5.0	516	516	515	515	515	515	514	514	514	514	514	514	514	514	513
10.0	511	510	510	509	509	509	509	509	509	509	509	509	509	509	509
15.0	502	501	500	499	499	499	500	500	501	500	500	499	499	498	498
20.0	488	487	486	486	486	487	487	486	486	485	485	485	485	485	485
25.0	470	469	468	468	469	469	468	468	468	468	469	468	468	467	466
30.0	449	447	447	447	447	446	446	447	448	447	446	445	445	445	445
35.0	423	421	421	422	421	422	423	422	420	420	420	421	419	419	418
40.0	394	392	392	392	392	394	392	392	391	391	390	390	389	389	389
45.0	362	359	360	360	362	360	359	359	358	358	358	358	358	356	356
50.0	327	325	325	325	325	324	324	323	323	324	322	321	320	320	320
55.0	290	286	286	289	286	285	284	286	284	283	282	282	282	281	281
60.0	249	245	246	245	244	245	245	242	242	241	241	241	240	240	240
65.0	207	202	206	202	202	202	200	199	199	199	199	199	198	198	197
70.0	164	160	159	159	158	155	155	156	156	155	154	153	153	153	152
75.0	121	120	116	115	112	113	112	112	110	109	109	109	109	109	110
80.0	79.9	75.2	74.1	72.6	71.6	69.3	67.6	69.0	68.8	68.7	68.5	68.1	67.9	67.5	67.2
85.0	42.6	36.7	34.5	31.9	31.7	31.7	31.4	32.0	32.3	32.6	33.0	33.2	33.5	33.7	33.9
90.0	4.10	1.77	1.77	1.77	1.77	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72
95.0	2.55	2.16	2.10	2.01	2.03	1.98	1.96	1.95	1.96	1.94	1.95	1.94	1.92	1.94	1.93
100.0	2.55	2.55	2.36	2.21	2.29	2.21	2.23	2.17	2.19	2.15	2.17	2.14	2.12	2.15	2.14
105.0	2.94	2.70	2.51	2.72	2.55	2.42	2.46	2.37	2.41	2.35	2.39	2.35	2.33	2.37	2.34
110.0	3.32	3.26	3.06	2.90	2.74	2.78	2.66	2.71	2.62	2.55	2.60	2.55	2.61	2.58	2.55
115.0	3.67	3.44	3.23	3.04	3.12	2.97	2.89	2.91	2.81	2.88	2.81	2.75	2.83	2.78	2.75
120.0	3.67	3.62	3.63	3.43	3.26	3.19	3.21	3.09	2.99	3.08	3.00	2.94	3.04	2.99	2.95
125.0	4.06	3.88	3.70	3.53	3.66	3.51	3.37	3.26	3.37	3.27	3.19	3.30	3.24	3.19	3.15
130.0	4.45	4.27	4.10	3.93	3.78	3.64	3.52	3.65	3.54	3.45	3.37	3.50	3.44	3.39	3.35
135.0	4.45	4.30	4.15	4.01	3.88	4.05	3.92	3.81	3.71	3.62	3.77	3.70	3.64	3.59	3.55
140.0	4.84	4.69	4.55	4.41	4.28	4.16	4.05	3.95	3.86	4.03	3.95	3.88	3.83	3.78	3.74
145.0	4.84	4.72	4.60	4.48	4.37	4.27	4.17	4.37	4.28	4.20	4.13	4.07	4.01	3.97	4.10
150.0	4.84	4.74	4.64	4.59	4.78	4.69	4.60	4.51	4.44	4.36	4.30	4.24	4.19	4.15	4.16
155.0	5.23	5.14	5.05	4.96	4.87	4.79	4.72	4.64	4.58	4.52	4.46	4.41	4.37	4.42	4.59
160.0	5.23	5.16	5.09	5.02	4.95	4.89	4.83	4.77	4.71	4.67	4.62	4.80	4.59	4.83	4.80
165.0	5.23	5.18	5.12	5.07	5.02	4.98	4.93	4.89	5.04	5.00	4.92	5.08	5.05	5.03	5.01
170.0	5.23	5.21	5.22	5.26	5.32	5.41	5.40	5.37	5.34	5.31	5.28	5.26	5.24	5.22	5.21
175.0	5.62	5.60	5.58	5.56	5.54	5.53	5.51	5.49	5.48	5.46	5.45	5.44	5.43	5.42	5.51
180.0	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96

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

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-3060N-18	DIMENSION: 296X596X11MM	SERIAL No.:

UNIT: cd

γ (DEG)	C (DEG)														
	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145
0.0	516	516	516	516	516	516	516	516	516	516	516	516	516	516	516
5.0	513	513	513	513	513	513	513	513	513	512	512	512	512	512	512
10.0	509	509	509	509	509	509	508	508	507	507	506	506	505	505	504
15.0	498	497	497	497	497	496	496	495	495	495	495	495	495	495	494
20.0	485	485	485	484	484	483	482	481	481	480	479	478	478	478	478
25.0	465	465	465	464	463	463	462	462	462	461	461	460	459	458	457
30.0	445	444	444	444	443	442	442	441	439	438	437	437	436	436	434
35.0	417	417	416	416	415	414	414	413	413	413	414	411	409	408	408
40.0	389	388	388	388	387	386	385	384	383	382	381	381	381	380	378
45.0	355	354	354	353	353	352	351	351	350	349	349	347	347	346	347
50.0	320	319	319	319	318	318	317	316	315	313	312	312	311	309	309
55.0	280	280	280	279	279	278	278	277	277	276	276	275	272	272	270
60.0	240	240	240	239	239	238	238	237	236	235	235	234	234	233	230
65.0	196	196	196	196	195	195	195	195	194	193	193	192	191	190	191
70.0	152	152	152	152	152	152	152	152	151	151	150	150	149	148	148
75.0	110	110	109	109	109	109	109	109	109	109	109	109	109	108	107
80.0	67.0	66.9	66.7	66.6	66.5	66.4	66.7	66.9	67.3	67.8	68.1	68.5	68.7	68.9	68.8
85.0	34.0	34.1	34.2	34.1	34.0	33.9	33.8	33.7	33.5	33.5	33.5	33.5	33.3	33.1	32.6
90.0	1.72	1.72	1.72	1.68	1.68	1.72	1.72	1.72	1.72	1.81	2.33	2.76	3.28	3.80	4.19
95.0	1.93	1.92	1.94	1.92	1.92	1.94	1.93	1.93	1.94	1.98	2.19	2.31	2.42	2.45	2.35
100.0	2.13	2.13	2.16	2.16	2.16	2.16	2.14	2.14	2.15	2.16	2.08	1.93	1.63	1.20	0.59
105.0	2.33	2.34	2.38	2.40	2.39	2.38	2.36	2.34	2.37	2.37	2.07	1.64	1.08	0.19	0.00
110.0	2.53	2.57	2.59	2.63	2.62	2.60	2.61	2.55	2.58	2.61	2.18	1.49	0.68	0.00	0.00
115.0	2.73	2.81	2.81	2.87	2.84	2.82	2.79	2.75	2.78	2.83	2.54	1.54	0.51	0.00	0.00
120.0	2.93	3.04	3.03	3.11	3.05	3.04	2.93	2.95	3.06	3.04	2.90	1.92	0.79	0.00	0.00
125.0	3.12	3.26	3.24	3.35	3.25	3.26	3.24	3.27	3.23	3.24	3.30	2.63	1.24	0.06	0.00
130.0	3.42	3.47	3.46	3.58	3.46	3.47	3.50	3.38	3.39	3.44	3.50	3.33	2.22	0.86	0.00
135.0	3.62	3.69	3.68	3.82	3.68	3.69	3.71	3.75	3.59	3.79	3.70	3.77	3.47	2.24	0.86
140.0	3.80	3.91	3.89	4.06	3.89	3.91	3.93	3.81	3.95	3.83	3.97	3.95	4.03	3.79	2.98
145.0	4.14	4.12	4.11	4.30	4.13	4.18	4.14	4.17	4.21	4.10	4.07	4.23	4.20	4.28	4.37
150.0	4.36	4.34	4.32	4.54	4.43	4.55	4.36	4.39	4.37	4.34	4.34	4.30	4.57	4.44	4.51
155.0	4.57	4.55	4.54	4.77	4.75	4.60	4.57	4.59	4.63	4.61	4.70	4.69	4.52	4.58	4.73
160.0	4.78	4.76	4.83	5.01	4.94	4.76	5.02	4.80	4.83	4.86	4.90	4.72	4.99	4.78	5.02
165.0	4.99	4.98	5.17	5.25	5.05	5.10	4.99	5.27	5.03	5.05	5.08	5.12	5.15	5.19	5.15
170.0	5.20	5.27	5.49	5.49	5.23	5.41	5.33	5.21	5.29	5.54	5.35	5.28	5.31	5.34	5.37
175.0	5.64	5.73	5.73	5.72	5.58	5.45	5.50	5.64	5.71	5.59	5.48	5.45	5.46	5.48	5.52
180.0	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96

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

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-3060N-18	DIMENSION: 296X596X11MM	SERIAL No.:

UNIT: cd

γ (DEG)	C (DEG)														
	150	155	160	165	170	175	180	185	190	195	200	205	210	215	220
0.0	516	516	516	516	516	516	516	516	516	516	516	516	516	516	516
5.0	512	512	512	512	513	513	513	513	512	512	512	512	511	511	511
10.0	504	504	504	504	504	504	505	504	503	503	502	502	502	503	503
15.0	493	492	492	492	492	492	493	492	491	490	490	490	491	491	492
20.0	479	478	476	476	475	475	476	474	474	474	474	475	476	475	474
25.0	457	458	457	456	455	455	456	454	454	454	455	454	453	453	453
30.0	433	433	434	433	431	431	432	430	430	430	430	429	428	429	430
35.0	407	406	405	406	404	403	404	402	402	403	401	400	401	401	401
40.0	376	376	374	375	374	372	373	371	372	371	369	370	369	370	371
45.0	344	342	341	340	341	338	338	336	338	335	335	335	336	337	336
50.0	310	306	304	303	304	302	301	300	300	298	297	298	300	299	298
55.0	269	269	267	264	263	262	260	260	259	258	259	260	258	259	259
60.0	229	227	227	224	222	222	220	219	217	216	218	217	217	217	219
65.0	188	186	184	185	179	180	175	177	173	176	174	174	175	176	176
70.0	147	146	143	141	138	136	133	132	131	130	131	133	133	133	133
75.0	106	105	104	101	99.1	95.0	91.3	91.2	92.7	89.8	90.9	91.5	91.5	92.7	93.6
80.0	68.9	67.3	64.9	64.2	60.8	57.2	52.5	51.3	50.8	51.3	52.3	53.7	54.5	54.7	56.1
85.0	31.7	31.4	31.6	32.0	29.4	22.2	10.0	12.9	18.4	20.9	21.1	21.0	21.0	22.5	23.8
90.0	3.67	3.41	3.54	3.63	3.11	2.24	2.16	1.90	1.90	1.85	1.85	1.90	1.90	1.94	1.98
95.0	2.07	1.79	1.39	0.58	0.00	0.16	1.51	1.70	1.85	1.92	1.91	1.95	2.00	2.05	2.05
100.0	0.32	0.28	0.00	0.00	0.00	0.00	1.51	1.85	1.85	2.00	1.93	2.07	2.11	2.16	2.12
105.0	0.00	0.00	0.00	0.00	0.00	0.00	1.85	2.10	2.09	1.90	2.06	2.18	2.18	2.27	2.29
110.0	0.00	0.00	0.00	0.00	0.00	0.00	2.24	2.02	1.97	2.13	2.30	2.29	2.41	2.30	2.37
115.0	0.00	0.00	0.00	0.00	0.00	0.00	2.29	2.24	2.44	2.43	2.41	2.51	2.50	2.50	2.45
120.0	0.00	0.00	0.00	0.00	0.00	0.00	2.68	2.62	2.57	2.51	2.71	2.64	2.50	2.57	2.67
125.0	0.00	0.00	0.00	0.00	0.00	0.00	3.11	3.02	2.93	2.85	2.61	2.76	2.69	2.82	2.76
130.0	0.00	0.00	0.00	0.00	0.00	0.00	2.76	2.71	2.67	3.00	2.87	2.81	2.97	2.90	2.87
135.0	0.00	0.00	0.00	0.00	0.00	0.00	3.15	3.09	3.02	3.22	3.17	3.10	3.04	3.14	3.18
140.0	1.71	0.48	0.00	0.00	0.00	0.00	3.50	3.43	3.35	3.29	3.22	3.27	3.39	3.33	3.27
145.0	4.01	3.50	2.45	1.73	1.11	0.62	3.89	3.81	3.74	3.66	3.60	3.53	3.47	3.41	3.36
150.0	4.60	4.69	4.79	4.62	4.52	4.49	3.89	3.82	3.76	3.70	3.65	3.59	3.54	3.49	3.45
155.0	4.89	4.79	4.87	4.96	5.05	5.14	3.89	3.84	3.79	3.74	3.69	3.65	3.60	3.56	3.84
160.0	4.83	4.89	4.95	5.02	5.09	5.16	3.89	3.88	3.93	4.03	4.09	4.05	4.01	3.97	3.93
165.0	4.95	5.18	5.36	5.27	5.21	5.20	4.28	4.24	4.21	4.17	4.14	4.11	4.08	4.05	4.02
170.0	5.40	5.43	5.47	5.50	5.54	5.58	4.28	4.25	4.23	4.21	4.19	4.17	4.15	4.13	4.11
175.0	5.62	5.70	5.78	5.84	5.90	5.94	4.28	4.26	4.25	4.24	4.23	4.22	4.21	4.20	4.19
180.0	5.96	5.96	5.96	5.96	5.96	5.96	4.28	4.28	4.28	4.28	4.28	4.28	4.28	4.28	4.28

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

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-3060N-18	DIMENSION: 296X596X11MM	SERIAL No.:

UNIT: cd

γ (DEG)	C (DEG)														
	225	230	235	240	245	250	255	260	265	270	275	280	285	290	295
0.0	516	516	516	516	516	516	516	516	516	516	516	516	516	516	516
5.0	511	511	511	511	511	511	511	511	511	511	511	512	512	512	512
10.0	503	503	504	504	505	505	506	506	506	506	506	506	507	507	507
15.0	492	491	491	491	491	491	492	492	492	493	493	493	494	494	495
20.0	474	474	474	475	475	476	477	478	479	479	479	480	480	481	481
25.0	454	455	455	455	455	455	456	456	457	457	458	459	459	460	461
30.0	429	429	430	430	431	432	433	434	435	435	436	437	437	437	438
35.0	401	402	404	404	404	404	405	405	406	407	407	408	409	410	411
40.0	372	371	371	372	373	373	375	376	377	378	379	379	380	381	381
45.0	336	337	338	339	339	339	340	341	342	343	343	344	346	347	348
50.0	300	300	300	301	302	303	304	305	306	307	308	309	309	310	311
55.0	260	261	263	263	263	264	264	265	266	267	268	269	270	271	272
60.0	220	220	220	221	222	223	224	225	226	227	228	228	229	230	231
65.0	177	177	178	179	179	180	181	182	183	183	184	185	186	187	188
70.0	134	135	136	137	137	138	138	139	139	140	141	141	142	143	144
75.0	94.2	94.6	95.0	95.7	96.1	96.6	97.0	97.6	98.1	98.7	99.3	99.9	101	101	102
80.0	56.0	56.3	56.2	56.4	56.4	56.4	56.4	56.7	57.1	57.5	58.0	58.7	59.3	60.1	60.7
85.0	24.9	25.8	26.6	27.3	27.8	28.3	28.7	29.1	29.4	29.7	29.9	30.1	30.2	30.3	30.2
90.0	1.98	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94
95.0	2.08	2.05	2.07	2.07	2.06	2.06	2.08	2.07	2.07	2.07	2.07	2.07	2.05	2.06	2.06
100.0	2.17	2.17	2.20	2.19	2.18	2.19	2.21	2.20	2.20	2.20	2.20	2.20	2.18	2.17	2.18
105.0	2.30	2.27	2.33	2.31	2.30	2.33	2.34	2.34	2.33	2.33	2.33	2.34	2.31	2.29	2.30
110.0	2.41	2.38	2.46	2.43	2.41	2.49	2.48	2.47	2.46	2.46	2.46	2.47	2.47	2.40	2.41
115.0	2.52	2.53	2.58	2.55	2.53	2.63	2.61	2.60	2.59	2.59	2.59	2.60	2.61	2.51	2.53
120.0	2.62	2.74	2.70	2.67	2.64	2.76	2.74	2.73	2.72	2.72	2.72	2.73	2.74	2.62	2.64
125.0	2.83	2.86	2.82	2.78	2.76	2.89	2.87	2.86	2.85	2.85	2.85	2.86	2.87	2.73	2.76
130.0	3.02	2.97	2.93	2.89	3.05	3.02	3.00	2.99	2.98	2.98	2.98	2.99	3.00	2.84	2.87
135.0	3.12	3.08	3.04	3.00	3.18	3.15	3.13	3.12	3.11	3.11	3.11	3.12	3.13	3.15	2.97
140.0	3.22	3.18	3.14	3.34	3.31	3.28	3.26	3.25	3.24	3.24	3.24	3.25	3.26	3.28	3.08
145.0	3.32	3.28	3.45	3.47	3.44	3.41	3.39	3.38	3.37	3.37	3.37	3.38	3.39	3.41	3.43
150.0	3.41	3.66	3.62	3.59	3.56	3.54	3.52	3.51	3.50	3.50	3.50	3.51	3.52	3.54	3.56
155.0	3.80	3.77	3.73	3.71	3.68	3.66	3.65	3.64	3.63	3.63	3.63	3.64	3.65	3.66	3.68
160.0	3.90	3.87	3.85	3.82	3.80	3.79	3.77	3.76	3.76	3.76	3.76	3.76	3.77	3.79	3.80
165.0	4.00	3.98	3.95	3.94	3.92	3.91	3.90	3.89	3.89	3.89	3.89	3.89	3.90	3.91	3.92
170.0	4.09	4.08	4.06	4.05	4.04	4.03	4.03	4.02	4.02	4.02	4.02	4.02	4.03	4.03	4.04
175.0	4.18	4.18	4.17	4.16	4.16	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.16
180.0	4.28	4.28	4.28	4.28	4.28	4.28	4.28	4.28	4.28	4.28	4.28	4.28	4.28	4.28	4.28

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

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-3060N-18	DIMENSION: 296X596X11MM	SERIAL No.:

UNIT: cd

C(DEG)\ γ (DEG)	300	305	310	315	320	325	330	335	340	345	350	355
0.0	516	516	516	516	516	516	516	516	516	516	516	516
5.0	512	513	513	513	513	514	514	514	515	515	515	516
10.0	507	507	507	507	507	507	508	508	508	509	509	510
15.0	496	496	497	497	498	498	498	498	498	499	499	500
20.0	481	481	481	482	483	484	485	485	485	485	485	486
25.0	462	463	465	465	465	465	465	466	467	466	467	468
30.0	438	439	440	442	444	443	443	444	445	446	446	446
35.0	412	414	414	414	416	418	420	419	418	420	419	420
40.0	382	383	384	385	386	387	388	391	390	390	391	392
45.0	350	351	351	352	353	354	355	357	359	358	358	359
50.0	312	313	315	318	317	318	319	320	322	323	323	324
55.0	273	274	275	276	279	281	280	282	283	288	285	285
60.0	232	233	233	235	236	238	241	241	241	244	246	245
65.0	189	191	191	192	193	194	196	199	200	200	205	201
70.0	145	146	147	149	150	151	151	152	157	157	159	160
75.0	102	103	103	104	106	108	109	111	110	114	115	119
80.0	61.6	62.5	63.4	64.2	65.0	65.1	65.0	67.2	70.0	72.0	73.8	75.1
85.0	30.1	30.1	30.0	29.9	29.8	29.8	29.5	30.3	30.8	31.3	34.4	37.0
90.0	1.94	1.94	1.98	1.98	2.03	1.98	1.98	1.94	1.94	1.94	1.94	1.94
95.0	2.04	2.05	2.07	2.05	2.06	2.04	1.98	1.94	1.88	1.78	1.59	1.36
100.0	2.16	2.15	2.15	2.11	2.12	2.10	2.02	1.89	1.80	1.64	1.37	1.11
105.0	2.31	2.25	2.23	2.16	2.14	2.14	2.09	1.98	1.92	1.74	1.45	1.32
110.0	2.43	2.36	2.31	2.34	2.24	2.20	2.16	2.09	1.98	1.91	1.60	1.61
115.0	2.55	2.45	2.42	2.42	2.30	2.20	2.25	2.15	2.13	1.98	1.68	1.80
120.0	2.67	2.58	2.58	2.49	2.53	2.38	2.34	2.31	2.26	2.21	2.13	1.98
125.0	2.78	2.82	2.67	2.65	2.60	2.61	2.46	2.30	2.38	2.33	2.36	2.36
130.0	2.89	2.93	2.87	2.80	2.68	2.71	2.75	2.53	2.57	2.42	2.65	2.47
135.0	3.00	3.04	3.08	2.89	2.93	2.90	2.81	2.85	2.91	2.64	2.68	2.72
140.0	3.11	3.14	3.18	3.22	3.14	3.05	3.10	2.99	2.94	2.99	3.04	3.10
145.0	3.21	3.24	3.28	3.32	3.36	3.41	3.23	3.21	3.26	3.32	3.38	3.44
150.0	3.46	3.34	3.37	3.41	3.45	3.49	3.54	3.59	3.65	3.70	3.58	3.50
155.0	3.71	3.73	3.46	3.49	3.53	3.56	3.60	3.65	3.69	3.74	3.79	3.84
160.0	3.82	3.85	3.87	3.90	3.60	3.63	3.66	3.70	3.73	3.77	3.81	3.85
165.0	3.94	3.95	3.98	4.00	4.02	4.05	4.08	4.11	4.11	4.00	3.92	3.88
170.0	4.05	4.06	4.08	4.09	4.11	4.13	4.15	4.17	4.19	4.21	4.23	4.25
175.0	4.16	4.17	4.18	4.18	4.19	4.20	4.21	4.22	4.23	4.24	4.25	4.26
180.0	4.28	4.28	4.28	4.28	4.28	4.28	4.28	4.28	4.28	4.28	4.28	4.28

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

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