

# GONIOPHOTOMETERS SYSTEM TEST REPORT

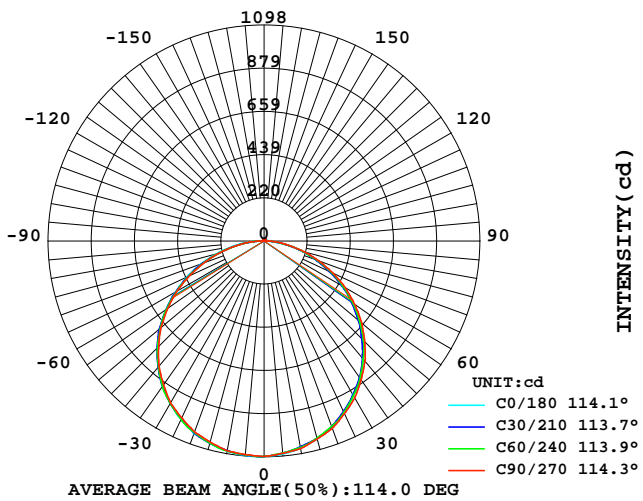
## LUMINAIRE PHOTOMETRIC TEST REPORT

Report number: 16071003

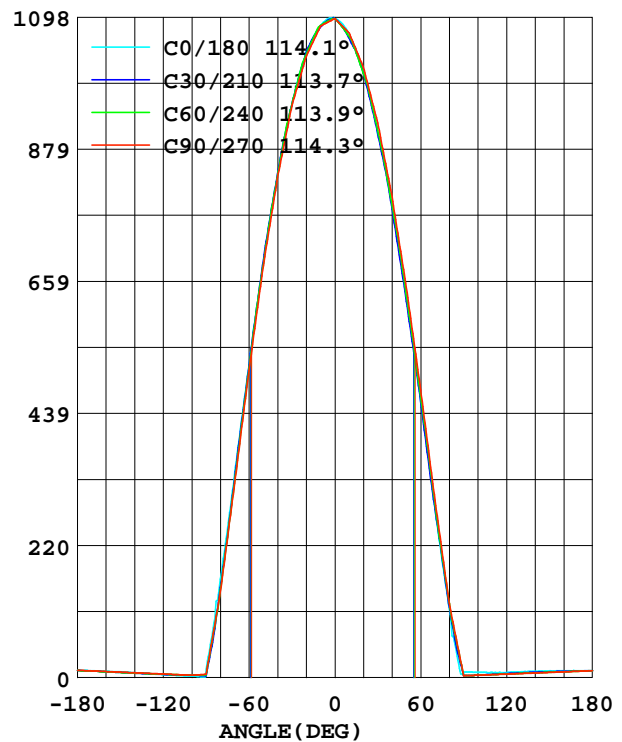
MANUFACTURER: SGSLight Limited		Address:	
NAME: TLP-V-1512N-40-IP65	TYPE:LED Panel Light	WEIGHT:	
SPECIFICATION:4000K CRI>90	DIMENSION: 150x1196mm	SERIAL No.:16071003	

DATA OF LAMP		Imax(cd)	1098	S/MH(C0/180)	1.29
MODEL	4000K	EFFICIENCY(%)	100.0	S/MH(C90/270)	1.28
NOMINAL POWER(W)	40	TOTAL FLUX(lm)	3231.5	Voltage(V)	229.5
RATED VOLTAGE(V)	230	EFFICIENCY(lm/W)	80.5	Current(A)	0.198
NOMINAL FLUX(lm)	3231.6	$\eta$ up(%)	1.3	Power(W)	40.13
LAMPS QUANTITY	1	$\eta$ down(%)	98.7	Power Factor(PF)	0.943
TEST VOLTAGE(V)	229.5	Effictive Flux(lm)	3231.6	EEL	0.169

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:Jason  
 Test Date:2016-07-10

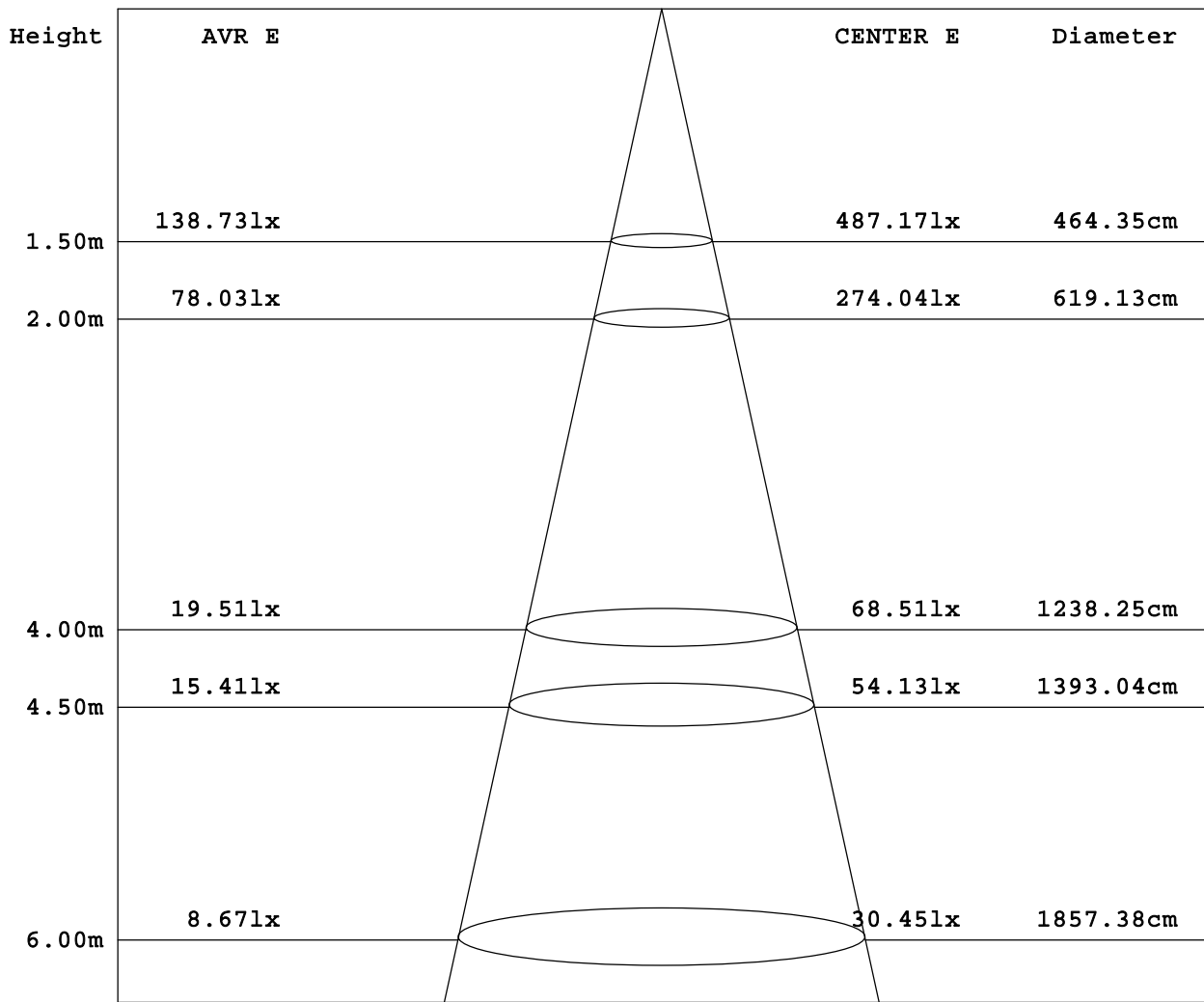
Test Set: 7.0deg/s B-Beta (TYPE B)  
 Humidity:65.0%  
 Test Distance:7.000 m  
 Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

AVERAGE AND CENTER E Figure

Report number: 16071003

MANUFACTURER: SGSLight Limited	Address:	
NAME: TLP-V-1512N-40-IP65	TYPE:LED Panel Light	WEIGHT:
SPECIFICATION:4000K CRI>90	DIMENSION: 150x1196mm	SERIAL No.:16071003



Angle:114.3deg

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:Jason  
 Test Date:2016-07-10

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

**GONIOPHOTOMETERS SYSTEM TEST REPORT**

**ZONAL FLUX DIAGRAM**

Report number: 16071003

<b>MANUFACTURER: SGSLight Limited</b>		<b>Address:</b>	
<b>NAME: TLP-V-1512N-40-IP65</b>		<b>TYPE:LED Panel Light</b>	<b>WEIGHT:</b>
<b>SPECIFICATION:4000K CRI&gt;90</b>		<b>DIMENSION: 150x1196mm</b>	<b>SERIAL No.:16071003</b>

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	zone	total
5.0	1096	1092	1090	1087	1088	1082	1084	1088	0- 5	26.09	26.09
10.0	1085	1083	1084	1072	1070	1064	1072	1074	5- 10	77.35	103.4
15.0	1066	1067	1058	1051	1043	1039	1043	1056	10- 15	126.1	229.5
20.0	1043	1036	1033	1019	1007	1002	1015	1022	15- 20	170.7	400.3
25.0	1001	1001	992.3	976.1	962.5	959.1	968.5	983.5	20- 25	209.8	610.2
30.0	954.1	955.7	951.4	927.1	901.4	906.8	922.2	935.4	25- 30	241.8	852.0
35.0	900.0	901.1	891.8	871.2	853.3	846.2	860.8	879.7	30- 35	266.0	1118
40.0	835.8	841.9	832.2	809.2	785.6	780.9	799.3	819.6	35- 40	281.3	1400
45.0	768.4	767.4	758.7	736.9	712.3	707.4	723.9	744.1	40- 45	287.2	1687
50.0	689.6	692.4	685.2	664.2	632.0	633.7	648.5	669.5	45- 50	283.4	1970
55.0	608.8	607.0	598.1	579.2	549.0	546.9	563.3	584.7	50- 55	270.0	2240
60.0	520.7	520.7	511.0	492.8	459.0	459.4	478.1	499.3	55- 60	247.5	2488
65.0	431.1	423.2	417.2	403.5	370.6	372.9	386.5	404.1	60- 65	217.1	2705
70.0	340.5	328.8	323.4	314.9	279.5	286.0	294.9	312.3	65- 70	179.9	2885
75.0	248.7	236.3	232.9	226.1	194.4	197.9	208.9	222.8	70- 75	138.4	3023
80.0	163.8	147.4	142.4	145.3	113.2	121.5	122.9	137.7	75- 80	95.50	3119
85.0	82.87	69.02	73.95	71.98	41.64	56.38	63.07	63.69	80- 85	53.93	3173
90.0	14.16	3.147	5.486	6.205	5.711	3.372	3.192	3.192	85- 90	18.22	3191
95.0	1.843	3.626	4.699	4.375	9.173	3.594	3.552	3.541	90- 95	2.179	3193
100.0	2.563	4.002	3.912	4.016	8.859	4.011	3.912	3.849	95-100	2.181	3195
105.0	2.968	4.350	4.429	4.702	8.544	4.602	4.384	4.122	100-105	2.338	3198
110.0	3.687	4.702	4.946	5.347	8.589	5.160	4.856	4.490	105-110	2.526	3200
115.0	4.092	5.100	5.463	5.912	8.679	5.693	5.328	4.784	110-115	2.688	3203
120.0	5.171	5.476	5.981	6.610	8.454	6.261	5.801	5.209	115-120	2.817	3206
125.0	5.891	5.991	6.498	7.167	9.263	6.855	6.273	5.606	120-125	2.922	3209
130.0	6.655	6.414	7.015	7.714	9.713	7.364	6.745	6.100	125-130	2.975	3212
135.0	7.420	7.086	7.532	8.203	10.16	8.002	7.217	6.750	130-135	2.983	3215
140.0	8.139	7.460	8.049	8.878	10.52	8.258	7.689	7.104	135-140	2.929	3218
145.0	8.904	8.014	8.566	9.372	10.92	8.889	8.162	7.473	140-145	2.808	3220
150.0	9.623	8.590	9.083	9.876	11.33	9.325	8.634	8.057	145-150	2.627	3223
155.0	10.02	9.188	9.601	10.25	11.37	9.699	9.106	8.713	150-155	2.378	3225
160.0	10.38	9.809	10.11	10.64	11.42	9.811	9.578	9.174	155-160	2.064	3228
165.0	10.74	10.45	10.63	10.88	11.10	10.45	10.05	9.786	160-165	1.694	3229
170.0	11.46	11.09	11.15	11.45	11.46	10.79	10.52	10.42	165-170	1.272	3231
175.0	11.82	11.31	11.66	11.82	11.46	11.13	10.99	10.78	170-175	0.797	3231
180.0	12.18	12.18	12.18	12.18	11.46	11.46	11.46	11.46	175-180	0.273	3232
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:Jason  
 Test Date:2016-07-10

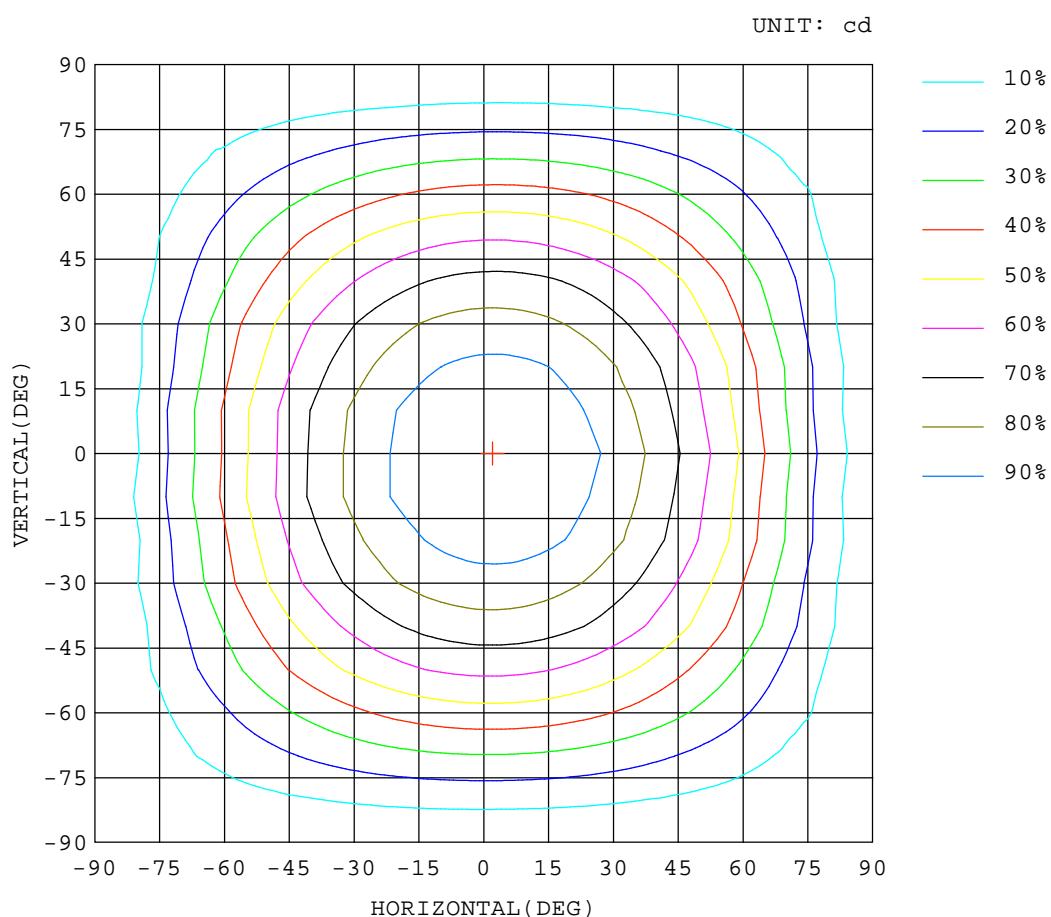
Test Set: 7.0deg/s B-Beta (TYPE B)  
 Humidity:65.0%  
 Test Distance:7.000 m  
 Remarks:

# GONIOPHOTOMETERS SYSTEM TEST REPORT

## ISOCANDELA DIAGRAM

Report number: 16071003

MANUFACTURER: SGSLight Limited	Address:	
NAME: TLP-V-1512N-40-IP65	TYPE:LED Panel Light	WEIGHT:
SPECIFICATION:4000K CRI>90	DIMENSION: 150x1196mm	SERIAL No.:16071003



Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:Jason  
 Test Date:2016-07-10

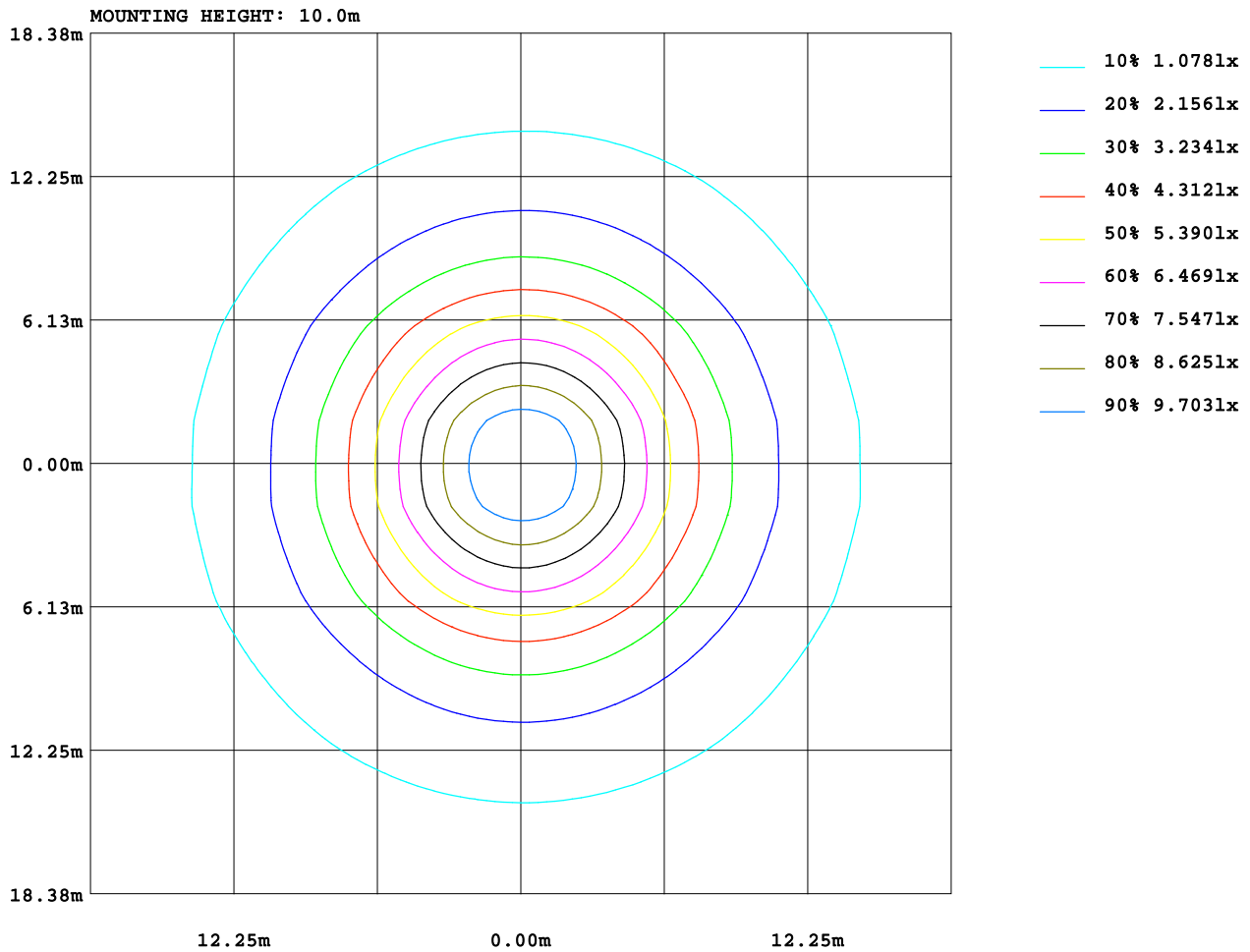
Test Set: 7.0deg/s B-Beta (TYPE B)  
 Humidity:65.0%  
 Test Distance:7.000 m  
 Remarks:

# GONIOPHOTOMETERS SYSTEM TEST REPORT

## ISOLUX DIAGRAM

Report number: 16071003

MANUFACTURER: SGSLight Limited	Address:	
NAME: TLP-V-1512N-40-IP65	TYPE:LED Panel Light	WEIGHT:
SPECIFICATION:4000K CRI>90	DIMENSION: 150x1196mm	SERIAL No.:16071003



Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:Jason  
 Test Date:2016-07-10

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

**GONIOPHOTOMETERS SYSTEM TEST REPORT**

**Uncorrected UGR Table**

Report number: 16071003

MANUFACTURER: SGSLight Limited					Address:					
NAME: TLP-V-1512N-40-IP65					TYPE:LED Panel Light			WEIGHT:		
SPECIFICATION:4000K CRI>90					DIMENSION: 150x1196mm			SERIAL No.:16071003		
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	16.8	18.3	17.0	18.5	18.7	16.7	18.2	17.0	18.4	18.6
3H	18.4	19.8	18.7	20.0	20.3	18.2	19.6	18.5	19.9	20.2
4H	19.1	20.4	19.4	20.7	21.0	18.9	20.2	19.2	20.5	20.8
6H	19.6	20.9	20.0	21.2	21.5	19.4	20.6	19.7	20.9	21.2
8H	19.8	21.0	20.2	21.3	21.7	19.5	20.7	19.9	21.0	21.4
12H	20.0	21.1	20.3	21.5	21.8	19.7	20.8	20.0	21.1	21.5
4H 2H	17.4	18.7	17.7	19.0	19.3	17.3	18.6	17.6	18.9	19.2
3H	19.2	20.4	19.6	20.7	21.0	19.1	20.2	19.4	20.5	20.9
4H	20.0	21.1	20.4	21.4	21.8	19.8	20.9	20.2	21.2	21.6
6H	20.7	21.6	21.1	22.0	22.4	20.4	21.4	20.9	21.8	22.2
8H	20.9	21.8	21.4	22.2	22.6	20.7	21.5	21.1	21.9	22.4
12H	21.1	21.9	21.6	22.3	22.8	20.9	21.7	21.3	22.1	22.5
8H 4H	20.3	21.2	20.7	21.5	22.0	20.1	21.0	20.6	21.4	21.8
6H	21.1	21.8	21.6	22.3	22.7	20.9	21.6	21.4	22.1	22.5
8H	21.4	22.1	21.9	22.5	23.0	21.2	21.9	21.7	22.3	22.8
12H	21.7	22.3	22.2	22.8	23.3	21.5	22.1	22.0	22.5	23.0
12H 4H	20.3	21.1	20.7	21.5	21.9	20.1	21.0	20.6	21.4	21.8
6H	21.2	21.8	21.6	22.3	22.7	21.0	21.6	21.4	22.1	22.5
8H	21.6	22.1	22.0	22.6	23.1	21.3	21.9	21.8	22.4	22.9
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 / - 0.3					+ 0.1 / - 0.3				

CIE Pub.117 Corrected 3232 lm Total Lamp Luminous Flux.(8log(F/F0) = 4.1)

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:Jason  
 Test Date:2016-07-10

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