

# GONIOPHOTOMETERS SYSTEM TEST REPORT

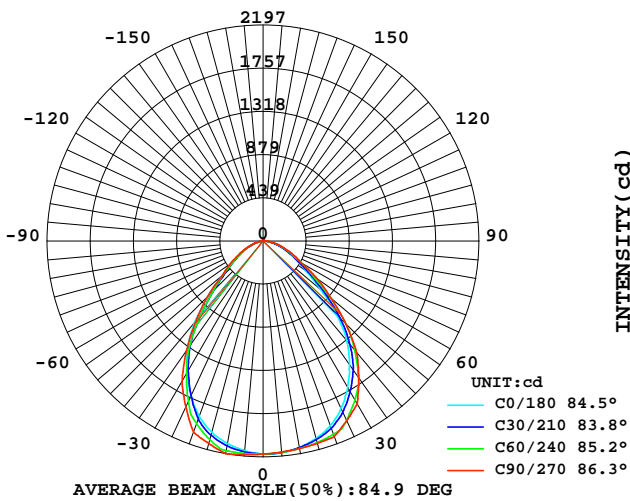
## LUMINAIRE PHOTOMETRIC TEST REPORT

Report number: 17120405

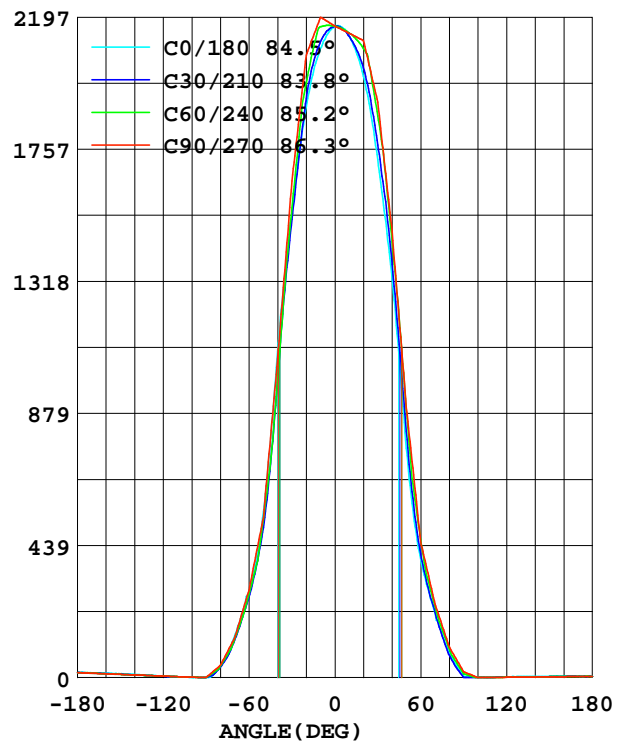
MANUFACTURER: SGSLight Limited	Address:	
NAME: TLP-30120-38-NW-110V-95-NU	TYPE:LED Panel Light	WEIGHT:
SPECIFICATION:4000K CRI>95	DIMENSION: 1196x296mm	SERIAL No.:17120405

DATA OF LAMP		Imax(cd)	2198	S/MH(C0/180)	1.09
MODEL	4000K	EFFICIENCY(%)	100.0	S/MH(C90/270)	1.13
NOMINAL POWER(W)	38	TOTAL FLUX(lm)	4213.1	Voltage(V)	218.8
RATED VOLTAGE(V)	218	EFFICIENCY(lm/W)	111.5	Current(A)	0.175
NOMINAL FLUX(lm)	4213.2	$\eta$ up(%)	0.6	Power(W)	37.79
LAMPS QUANTITY	1	$\eta$ down(%)	99.4	Power Factor(PF)	0.966
TEST VOLTAGE(V)	218.9	Effictive Flux(lm)	0.0	EEI	0.000

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:Jason  
 Test Date:2017-12-04

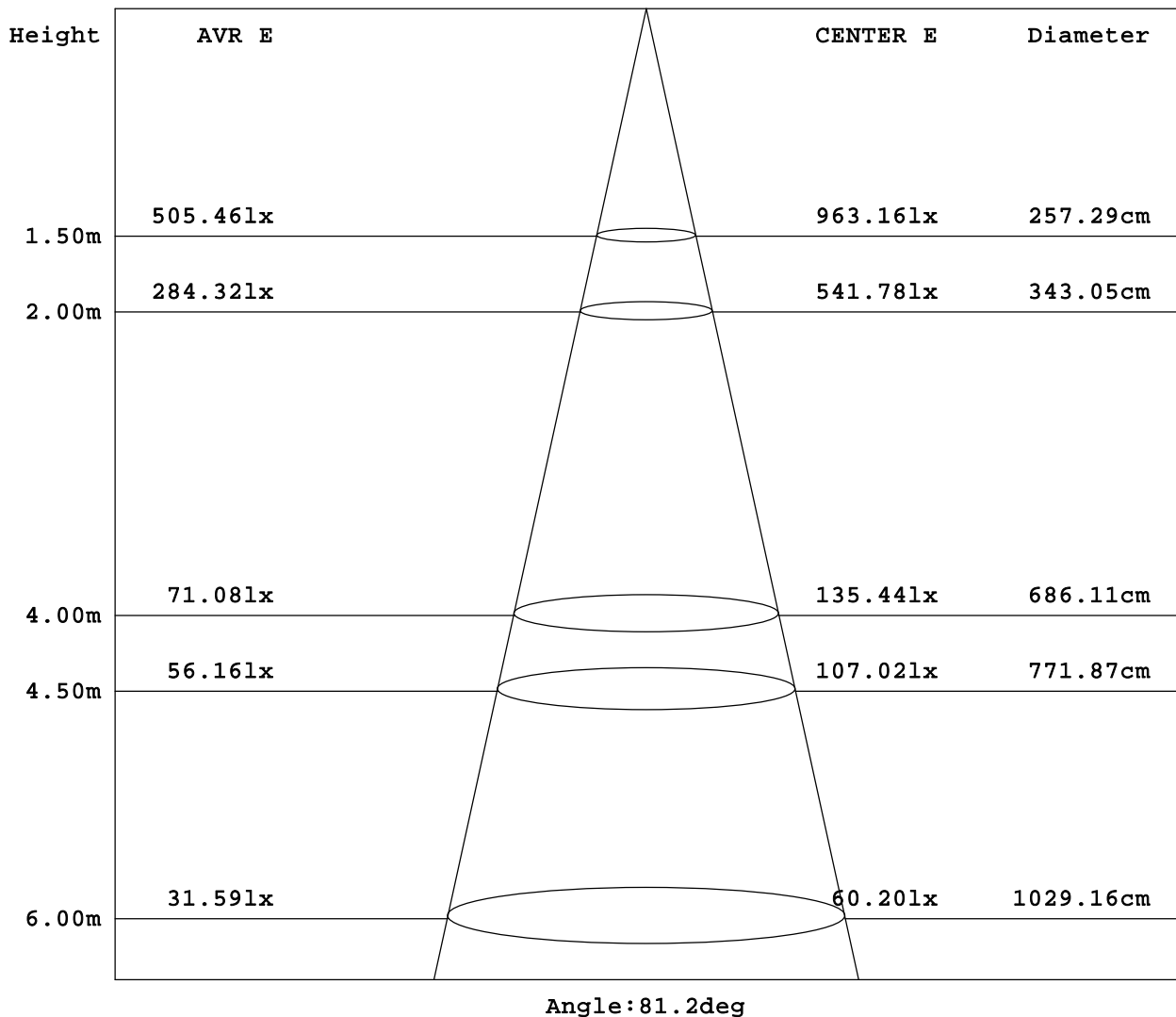
Test Set: 8.0deg/s B-Beta (TYPE B)  
 Humidity:65.0%  
 Test Distance:10.000 m  
 Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

AVERAGE AND CENTER E Figure

Report number: 17120405

MANUFACTURER: SGSLight Limited	Address:	
NAME: TLP-30120-38-NW-110V-95-NU	TYPE:LED Panel Light	WEIGHT:
SPECIFICATION:4000K CRI>95	DIMENSION: 1196x296mm	SERIAL No.:17120405



Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:Jason  
 Test Date:2017-12-04

Test Set: 8.0deg/s B-Beta (TYPE B)  
 Humidity:65.0%  
 Test Distance:10.000 m  
 Remarks:

**GONIOPHOTOMETERS SYSTEM TEST REPORT**

**ZONAL FLUX DIAGRAM**

Report number: 17120405

<b>MANUFACTURER: SGSLight Limited</b>		<b>Address:</b>	
<b>NAME: TLP-30120-38-NW-110V-95-NU</b>		<b>TYPE:LED Panel Light</b>	<b>WEIGHT:</b>
<b>SPECIFICATION:4000K CRI&gt;95</b>		<b>DIMENSION: 1196x296mm</b>	<b>SERIAL No.:17120405</b>

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	zone	total
5.0	2142	2161	2182	2178	2164	2159	2155	2143	0- 5	51.73	51.73
10.0	2093	2140	2197	2174	2133	2139	2143	2106	5- 10	153.8	205.5
15.0	2014	2080	2134	2141	2081	2107	2131	2057	10- 15	251.0	456.6
20.0	1901	1939	2071	2036	2001	2055	2119	1979	15- 20	338.1	794.8
25.0	1737	1767	1861	1903	1878	1974	2016	1867	20- 25	408.0	1203
30.0	1545	1539	1652	1708	1724	1829	1914	1704	25- 30	451.9	1655
35.0	1345	1266	1357	1472	1536	1639	1699	1511	30- 35	468.1	2123
40.0	1085	980.6	1061	1217	1324	1429	1483	1306	35- 40	451.8	2575
45.0	784.7	709.6	796.6	914.8	1061	1143	1190	1022	40- 45	403.4	2978
50.0	552.0	493.7	531.8	642.3	763.2	849.5	897.4	745.5	45- 50	329.9	3308
55.0	392.5	370.1	411.7	472.6	536.2	609.7	674.2	546.8	50- 55	255.2	3564
60.0	288.8	269.4	291.7	337.3	395.0	424.0	451.1	396.5	55- 60	196.7	3760
65.0	211.8	190.8	212.1	249.7	296.3	314.4	347.9	296.4	60- 65	150.4	3911
70.0	139.0	124.7	132.5	171.4	212.9	224.2	244.8	217.2	65- 70	113.0	4024
75.0	79.59	72.55	86.69	98.88	143.2	144.7	173.1	149.0	70- 75	78.38	4102
80.0	38.09	37.68	40.89	56.03	82.30	86.58	101.3	92.53	75- 80	49.11	4151
85.0	9.100	13.48	20.59	23.84	40.20	40.62	60.34	47.95	80- 85	25.75	4177
90.0	0.900	0.400	0.300	0.300	11.70	6.300	19.29	16.50	85- 90	9.967	4187
95.0	0	0.964	0.800	0.723	1.800	1.882	9.700	5.037	90- 95	2.213	4189
100.0	0.800	1.600	1.300	1.460	1.700	0.160	0.100	0.332	95-100	0.859	4190
105.0	2.400	2.374	2.250	2.504	0.800	0.430	0.350	0.414	100-105	0.672	4191
110.0	3.300	3.131	3.200	3.485	0.800	0.689	0.600	0.545	105-110	0.941	4192
115.0	4.200	3.908	4.150	4.424	1.600	1.136	0.850	0.668	110-115	1.208	4193
120.0	5.799	5.030	5.100	5.384	2.400	1.169	1.100	0.785	115-120	1.463	4194
125.0	6.699	5.813	6.050	6.555	3.200	1.598	1.350	1.103	120-125	1.679	4196
130.0	7.599	6.822	7.000	7.779	3.200	1.993	1.600	1.396	125-130	1.851	4198
135.0	9.200	7.662	7.950	8.705	3.200	2.236	1.850	1.542	130-135	1.983	4200
140.0	10.10	9.160	8.900	9.484	3.999	2.465	2.100	1.679	135-140	2.063	4202
145.0	11.70	9.985	9.850	10.75	3.999	2.682	2.349	2.782	140-145	2.084	4204
150.0	12.60	10.64	10.80	11.60	3.999	2.889	2.599	2.848	145-150	2.045	4206
155.0	13.39	11.89	11.75	12.31	4.799	3.705	2.849	2.986	150-155	1.915	4208
160.0	14.19	13.20	12.70	13.65	3.999	3.934	3.099	3.378	155-160	1.721	4210
165.0	14.99	13.86	13.65	14.46	4.799	4.156	3.349	3.563	160-165	1.454	4211
170.0	15.79	15.21	14.60	15.14	4.799	3.777	3.599	3.744	165-170	1.110	4212
175.0	16.50	16.59	15.55	15.82	4.799	3.922	3.849	3.922	170-175	0.701	4213
180.0	16.50	16.50	16.50	16.50	4.099	4.099	4.099	4.099	175-180	0.246	4213
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:Jason  
 Test Date:2017-12-04

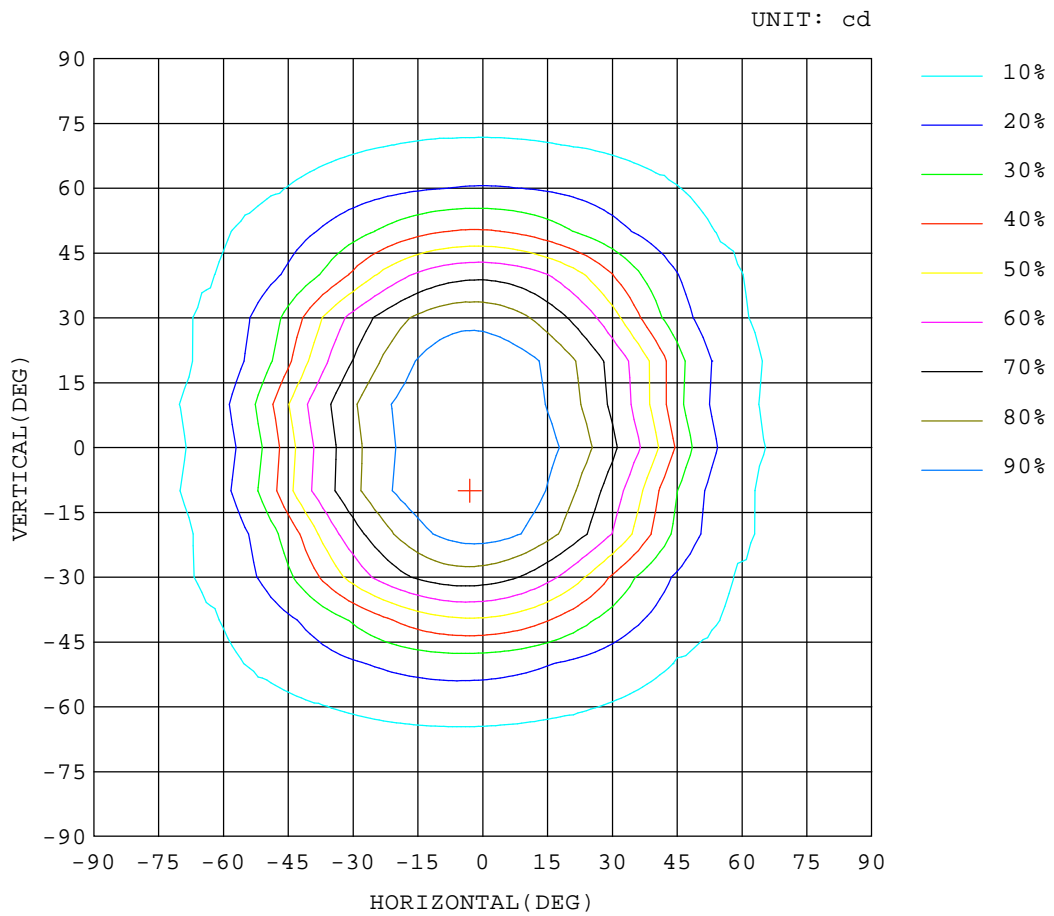
Test Set: 8.0deg/s B-Beta (TYPE B)  
 Humidity:65.0%  
 Test Distance:10.000 m  
 Remarks:

**GONIOPHOTOMETERS SYSTEM TEST REPORT**

**ISOCANDELA DIAGRAM**

Report number: 17120405

<b>MANUFACTURER:</b> SGSLight Limited	<b>Address:</b>	
<b>NAME:</b> TLP-30120-38-NW-110V-95-NU	<b>TYPE:</b> LED Panel Light	<b>WEIGHT:</b>
<b>SPECIFICATION:</b> 4000K CRI>95	<b>DIMENSION:</b> 1196x296mm	<b>SERIAL No.:</b> 17120405



Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:Jason  
 Test Date:2017-12-04

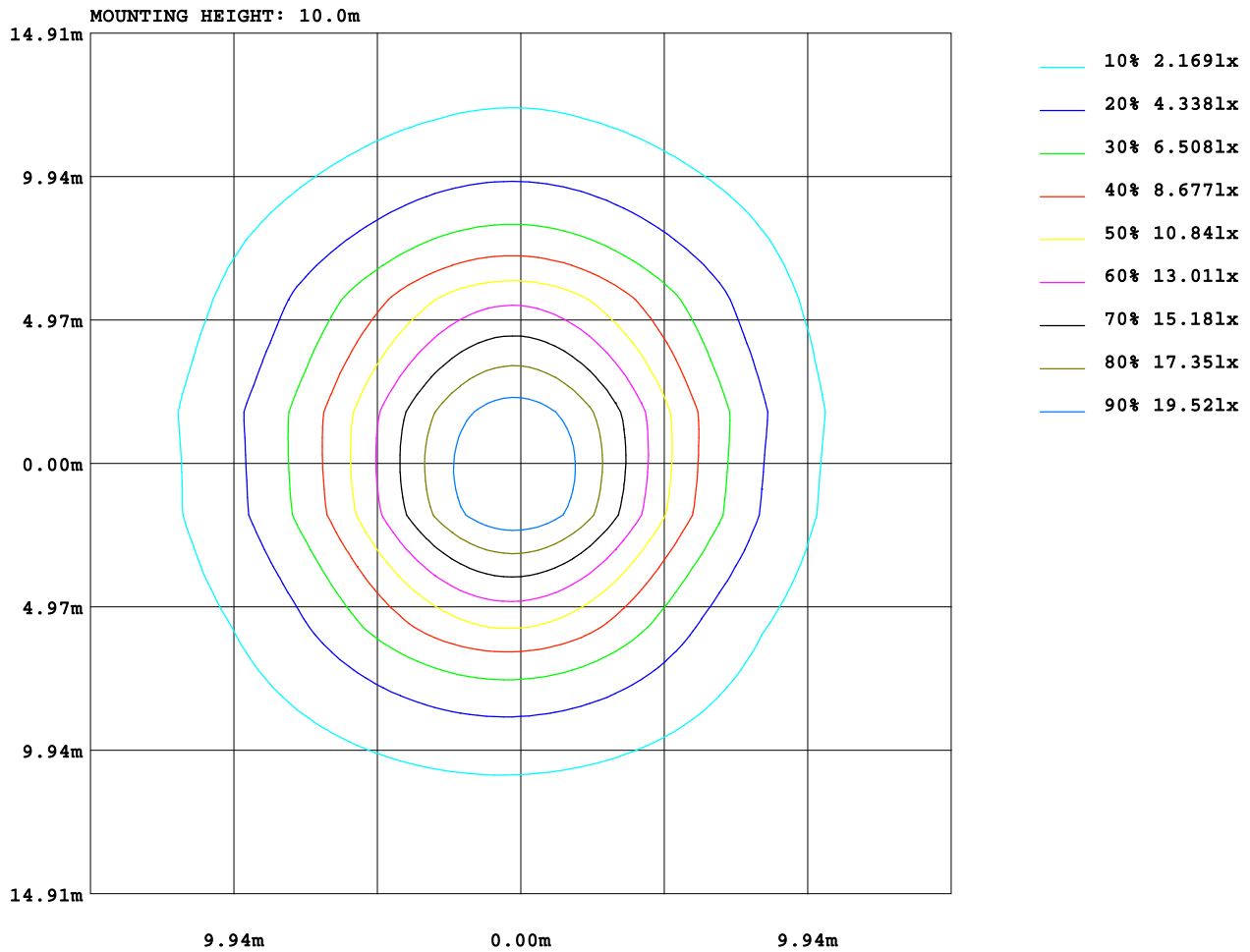
Test Set: 8.0deg/s B-Beta (TYPE B)  
 Humidity:65.0%  
 Test Distance:10.000 m  
 Remarks:

# GONIOPHOTOMETERS SYSTEM TEST REPORT

## ISOLUX DIAGRAM

Report number: 17120405

MANUFACTURER: SGSLight Limited	Address:	
NAME: TLP-30120-38-NW-110V-95-NU	TYPE:LED Panel Light	WEIGHT:
SPECIFICATION:4000K CRI>95	DIMENSION: 1196x296mm	SERIAL No.:17120405



Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:Jason  
 Test Date:2017-12-04

Test Set: 8.0deg/s B-Beta (TYPE B)  
 Humidity:65.0%  
 Test Distance:10.000 m  
 Remarks:

**GONIOPHOTOMETERS SYSTEM TEST REPORT**

**Uncorrected UGR Table**

Report number: 17120405

MANUFACTURER: SGSLight Limited						Address:				
NAME: TLP-30120-38-NW-110V-95-NU						TYPE:LED Panel Light			WEIGHT:	
SPECIFICATION:4000K CRI>95						DIMENSION: 1196x296mm			SERIAL No.:17120405	
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	13.5	14.8	13.7	15.0	15.2	13.6	14.9	13.9	15.1	15.3
3H	14.0	15.2	14.3	15.5	15.7	14.1	15.3	14.4	15.6	15.8
4H	14.2	15.3	14.5	15.6	15.8	14.3	15.5	14.6	15.7	16.0
6H	14.2	15.3	14.5	15.5	15.8	14.4	15.5	14.7	15.7	16.0
8H	14.2	15.2	14.5	15.5	15.8	14.4	15.4	14.7	15.7	16.0
12H	14.2	15.1	14.5	15.4	15.7	14.4	15.4	14.8	15.7	16.0
4H 2H	13.6	14.8	13.9	15.0	15.3	13.7	14.9	14.1	15.1	15.4
3H	14.3	15.3	14.7	15.6	15.9	14.4	15.4	14.8	15.7	16.0
4H	14.5	15.4	14.9	15.8	16.1	14.7	15.6	15.1	15.9	16.3
6H	14.6	15.4	15.0	15.8	16.2	14.9	15.6	15.3	16.0	16.4
8H	14.6	15.4	15.0	15.7	16.1	14.9	15.6	15.3	16.0	16.4
12H	14.6	15.3	15.0	15.7	16.1	14.9	15.6	15.3	16.0	16.4
8H 4H	14.6	15.3	15.0	15.7	16.1	14.7	15.5	15.1	15.8	16.2
6H	14.7	15.3	15.2	15.7	16.2	14.9	15.5	15.4	15.9	16.4
8H	14.7	15.3	15.2	15.7	16.2	15.0	15.5	15.5	16.0	16.4
12H	14.7	15.2	15.2	15.6	16.1	15.1	15.5	15.6	16.0	16.5
12H 4H	14.5	15.2	15.0	15.6	16.0	14.7	15.4	15.1	15.7	16.2
6H	14.7	15.2	15.2	15.7	16.1	14.9	15.4	15.4	15.9	16.3
8H	14.7	15.2	15.2	15.6	16.1	15.0	15.5	15.5	15.9	16.4
Variations with the observer position at spacings:										
S = 1.0H	+ 0.7 / - 1.0					+ 0.6 / - 0.8				
1.5H	+ 1.0 / - 0.8					+ 0.9 / - 0.7				
2.0H	+ 1.8 / - 1.1					+ 1.7 / - 1.1				

CIE Pub.117 Corrected 4213 lm Total Lamp Luminous Flux.(8log(F/F0) = 5.0)

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:Jason  
 Test Date:2017-12-04

Test Set: 8.0deg/s B-Beta (TYPE B)  
 Humidity:65.0%  
 Test Distance:10.000 m  
 Remarks: