

# GONIOPHOTOMETERS SYSTEM TEST REPORT

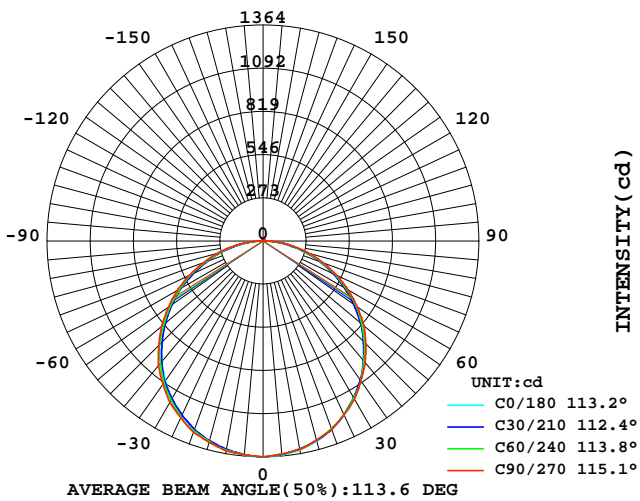
## LUMINAIRE PHOTOMETRIC TEST REPORT

Report number: 2017120611

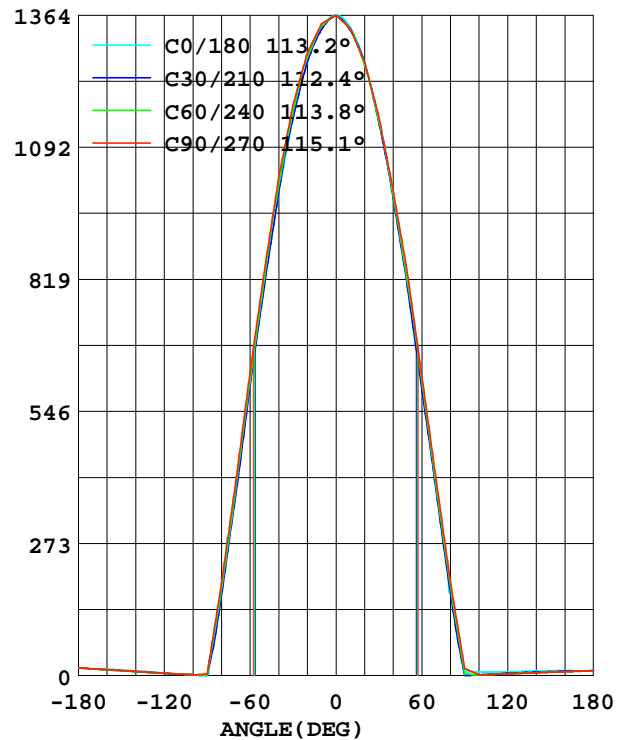
MANUFACTURER: SGSLight Limited	Address:	
NAME: TLP-6060-38-NW-110V-IP65	TYPE:LED Panel Light	WEIGHT:
SPECIFICATION:4000K CRI>90	DIMENSION: 596x596mm	SERIAL No.:2017120611

DATA OF LAMP		Imax(cd)	1364	S/MH(C0/180)	1.25
MODEL	4000K	EFFICIENCY(%)	100.0	S/MH(C90/270)	1.28
NOMINAL POWER(W)	38	TOTAL FLUX(lm)	4036.1	Voltage(V)	218.8
RATED VOLTAGE(V)	218	EFFICIENCY(lm/W)	108.8	Current(A)	0.165
NOMINAL FLUX(lm)	4036.2	$\eta$ up(%)	0.9	Power(W)	37.09
LAMPS QUANTITY	1	$\eta$ down(%)	99.1	Power Factor(PF)	0.973
TEST VOLTAGE(V)	218.9	Effective Flux(lm)	3944.7	EEL	0.128

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:Jason  
 Test Date:2017-12-06

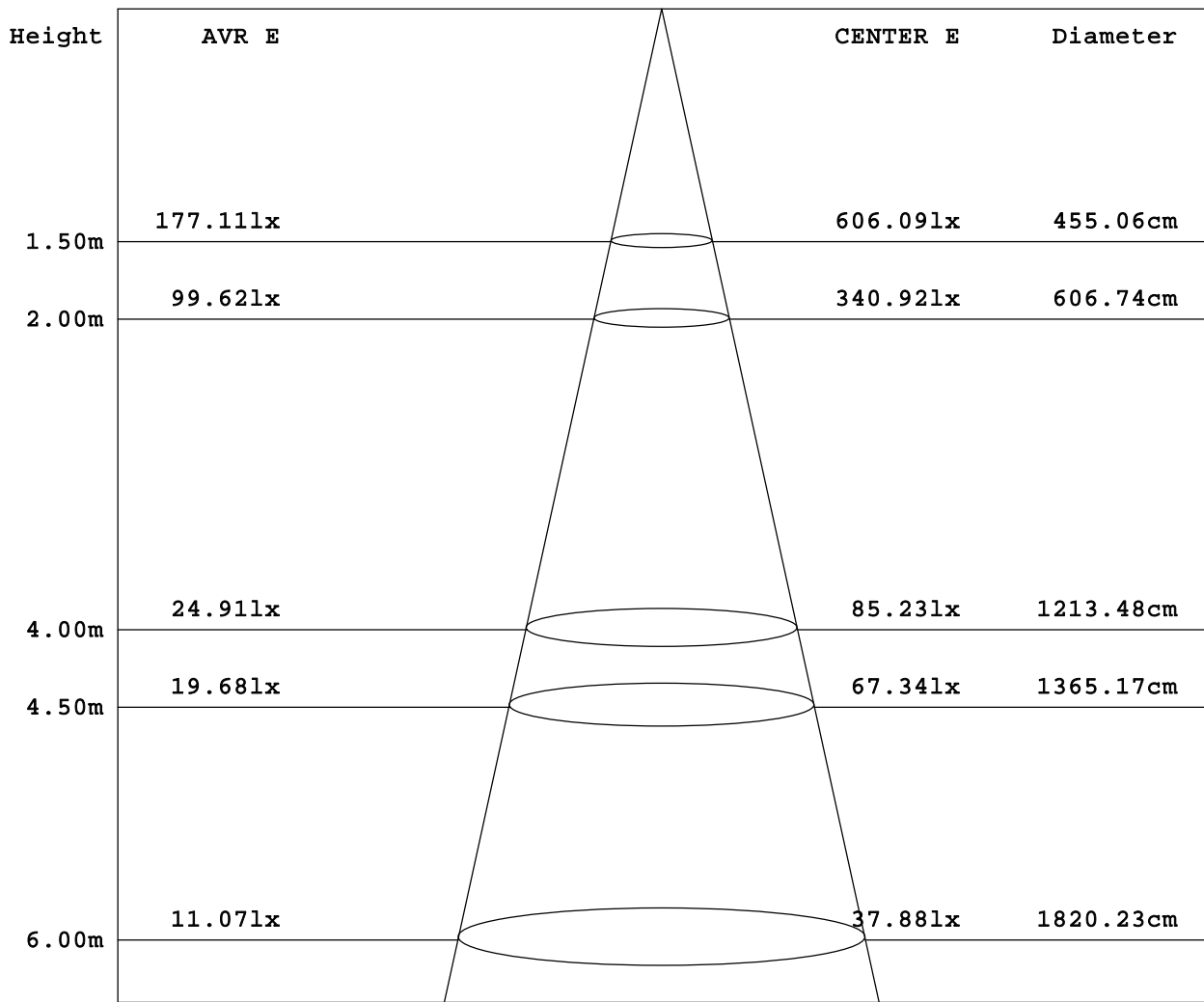
Test Set: 10.0deg/s B-Beta (TYPE B)  
 Humidity:65.0%  
 Test Distance:10.000 m  
 Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

AVERAGE AND CENTER E Figure

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MANUFACTURER: SGSLight Limited	Address:	
NAME: TLP-6060-38-NW-110V-IP65	TYPE:LED Panel Light	WEIGHT:
SPECIFICATION:4000K CRI>90	DIMENSION: 596x596mm	SERIAL No.:2017120611



Angle:113.2deg

Test System:HOPPO HPG1900  
 Temperature:25.3DEG  
 Operators:Jason  
 Test Date:2017-12-06

Test Set: 10.0deg/s B-Beta (TYPE B)  
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**GONIOPHOTOMETERS SYSTEM TEST REPORT**

**ZONAL FLUX DIAGRAM**

Report number: 2017120611

<b>MANUFACTURER:</b> SGSLight Limited	<b>Address:</b>	
<b>NAME:</b> TLP-6060-38-NW-110V-IP65	<b>TYPE:</b> LED Panel Light	<b>WEIGHT:</b>
<b>SPECIFICATION:</b> 4000K CRI>90	<b>DIMENSION:</b> 596x596mm	<b>SERIAL No.:</b> 2017120611

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	zone	total
5.0	1358	1354	1355	1356	1359	1352	1351	1352	0- 5	32.46	32.46
10.0	1339	1338	1347	1341	1340	1334	1338	1334	5- 10	96.26	128.7
15.0	1310	1312	1317	1319	1310	1308	1303	1305	10- 15	156.9	285.7
20.0	1269	1270	1286	1277	1267	1260	1268	1261	15- 20	212.3	498.0
25.0	1213	1222	1232	1230	1213	1208	1212	1211	20- 25	260.8	758.8
30.0	1150	1159	1178	1171	1150	1144	1155	1149	25- 30	300.2	1059
35.0	1078	1084	1103	1102	1080	1071	1080	1077	30- 35	329.9	1389
40.0	993.8	1002	1028	1026	995.0	992.0	1004	998.8	35- 40	348.2	1737
45.0	905.4	911.1	932.2	935.8	907.0	899.0	917.9	911.3	40- 45	355.3	2093
50.0	810.2	818.8	836.0	840.9	812.5	803.3	832.2	822.0	45- 50	350.6	2443
55.0	704.7	707.7	731.4	739.4	708.5	705.0	726.9	725.3	50- 55	334.8	2778
60.0	600.4	597.6	626.9	636.4	606.0	605.7	621.6	628.2	55- 60	308.2	3086
65.0	494.5	489.6	513.2	525.7	500.6	494.9	514.1	519.8	60- 65	272.4	3359
70.0	383.8	381.2	399.5	416.9	389.2	386.5	406.6	414.7	65- 70	228.7	3588
75.0	290.2	270.3	294.8	308.7	284.8	279.1	301.1	311.8	70- 75	180.0	3768
80.0	181.0	170.0	190.1	205.9	168.6	178.7	195.6	209.7	75- 80	128.7	3896
85.0	80.90	79.68	96.65	107.7	90.80	85.90	105.2	113.5	80- 85	76.33	3973
90.0	0.800	0.500	3.100	14.50	6.900	1.000	14.80	25.10	85- 90	27.46	4000
95.0	0	1.220	2.300	5.035	8.100	0.951	8.050	8.306	90- 95	3.214	4003
100.0	1.400	1.946	1.500	1.860	7.400	1.392	1.300	1.340	95-100	1.358	4005
105.0	2.199	2.574	2.400	3.143	7.500	2.075	1.850	1.407	100-105	1.272	4006
110.0	3.799	3.151	3.300	4.410	7.600	2.785	2.400	1.644	105-110	1.616	4008
115.0	3.900	3.940	4.200	5.646	7.700	3.574	2.950	1.801	110-115	1.908	4010
120.0	5.500	4.815	5.100	6.753	7.900	4.023	3.500	2.176	115-120	2.173	4012
125.0	6.300	5.628	6.000	7.796	8.000	4.781	4.050	2.688	120-125	2.388	4014
130.0	7.899	6.385	6.900	8.797	8.900	5.486	4.600	3.036	125-130	2.558	4017
135.0	8.700	7.415	7.800	9.799	9.700	6.020	5.150	3.536	130-135	2.679	4019
140.0	9.600	8.011	8.700	10.67	9.800	6.621	5.700	4.259	135-140	2.723	4022
145.0	11.20	9.112	9.599	11.46	9.900	7.102	6.250	5.056	140-145	2.699	4025
150.0	12.00	9.861	10.50	12.38	9.900	7.557	6.800	5.516	145-150	2.596	4027
155.0	12.80	10.86	11.40	13.13	9.999	8.370	7.350	6.240	150-155	2.402	4030
160.0	13.60	12.09	12.29	13.85	9.999	8.512	7.900	7.201	155-160	2.128	4032
165.0	13.60	12.68	13.20	14.56	10.10	8.919	8.450	7.534	160-165	1.783	4034
170.0	14.40	13.95	14.09	14.62	10.10	9.279	9.000	8.589	165-170	1.351	4035
175.0	15.90	14.90	15.00	15.26	10.10	9.710	9.550	8.945	170-175	0.857	4036
180.0	15.90	15.90	15.90	15.90	10.10	10.10	10.10	10.10	175-180	0.300	4036
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:Jason  
 Test Date:2017-12-06

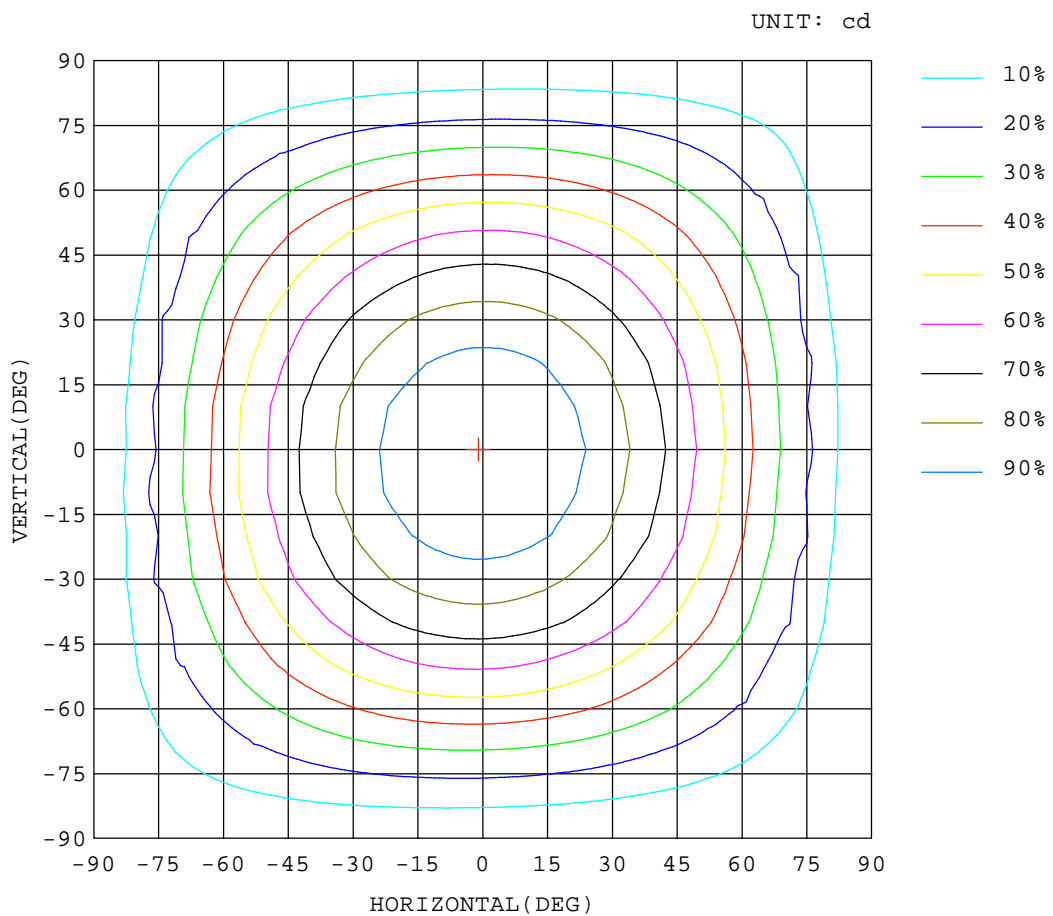
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 Test Distance:10.000 m  
 Remarks:

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## ISOCANDELA DIAGRAM

Report number: 2017120611

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Test System:HOPOO HPG1900  
Temperature:25.3DEG  
Operators:Jason  
Test Date:2017-12-06

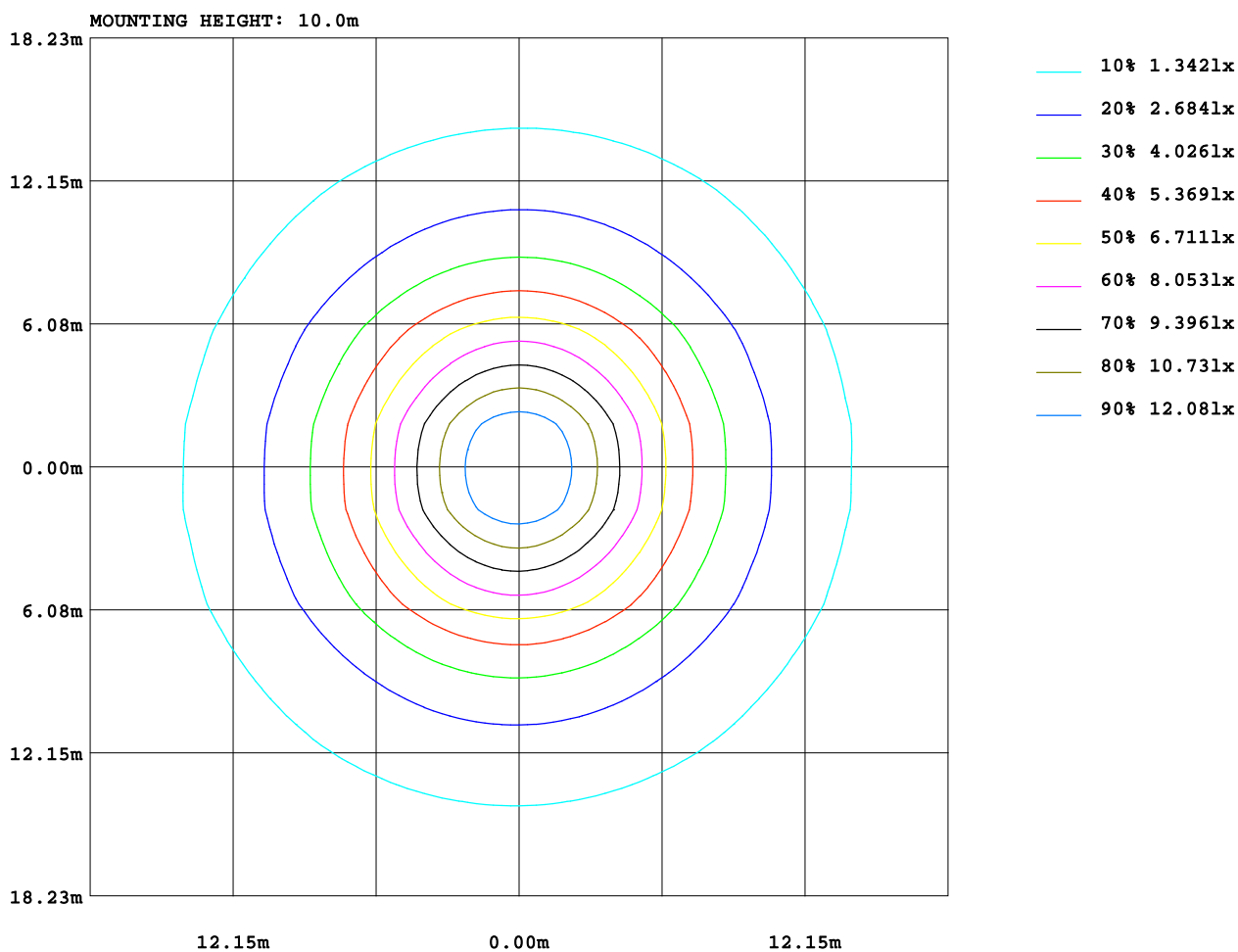
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Humidity:65.0%  
Test Distance:10.000 m  
Remarks:

# GONIOPHOTOMETERS SYSTEM TEST REPORT

## ISOLUX DIAGRAM

Report number: 2017120611

MANUFACTURER: SGSLight Limited	Address:	
NAME: TLP-6060-38-NW-110V-IP65	TYPE:LED Panel Light	WEIGHT:
SPECIFICATION:4000K CRI>90	DIMENSION: 596x596mm	SERIAL No.:2017120611



Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:Jason  
 Test Date:2017-12-06

Test Set: 10.0deg/s B-Beta (TYPE B)  
 Humidity:65.0%  
 Test Distance:10.000 m  
 Remarks:

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**Uncorrected UGR Table**

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MANUFACTURER: SGSLight Limited					Address:					
NAME: TLP-6060-38-NW-110V-IP65					TYPE:LED Panel Light			WEIGHT:		
SPECIFICATION:4000K CRI>90					DIMENSION: 596x596mm			SERIAL No.:2017120611		
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	17.0	18.5	17.3	18.7	18.9	17.2	18.7	17.5	18.9	19.2
3H	18.5	19.9	18.8	20.2	20.4	18.8	20.2	19.1	20.4	20.7
4H	19.2	20.5	19.5	20.8	21.1	19.4	20.8	19.8	21.1	21.3
6H	19.7	20.9	20.0	21.2	21.5	20.0	21.3	20.3	21.6	21.9
8H	19.8	21.1	20.2	21.4	21.7	20.2	21.4	20.6	21.7	22.0
12H	19.9	21.1	20.3	21.4	21.8	20.4	21.5	20.7	21.8	22.2
4H 2H	17.6	18.9	17.9	19.2	19.5	17.8	19.1	18.1	19.4	19.7
3H	19.3	20.5	19.7	20.8	21.1	19.5	20.7	19.9	21.0	21.4
4H	20.1	21.2	20.5	21.5	21.9	20.3	21.4	20.7	21.8	22.1
6H	20.7	21.7	21.1	22.0	22.4	21.0	22.0	21.4	22.4	22.7
8H	20.9	21.8	21.3	22.2	22.6	21.3	22.2	21.7	22.6	23.0
12H	21.0	21.9	21.5	22.3	22.7	21.5	22.3	22.0	22.7	23.2
8H 4H	20.4	21.3	20.8	21.7	22.1	20.6	21.5	21.0	21.9	22.3
6H	21.1	21.9	21.6	22.3	22.8	21.5	22.2	21.9	22.6	23.1
8H	21.4	22.1	21.9	22.5	23.0	21.8	22.5	22.3	22.9	23.4
12H	21.6	22.2	22.1	22.7	23.2	22.1	22.7	22.6	23.2	23.7
12H 4H	20.4	21.2	20.8	21.6	22.1	20.6	21.4	21.1	21.8	22.3
6H	21.2	21.9	21.7	22.3	22.8	21.5	22.2	22.0	22.6	23.1
8H	21.5	22.1	22.0	22.6	23.1	21.9	22.5	22.4	23.0	23.5
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.1 / - 0.2					+ 0.1 / - 0.3				
2.0H	+ 0.2 / - 0.2					+ 0.1 / - 0.3				

CIE Pub.117 Corrected 4036 lm Total Lamp Luminous Flux. (8log(F/F0) = 4.8)

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