

# GONIOPHOTOMETERS SYSTEM TEST REPORT

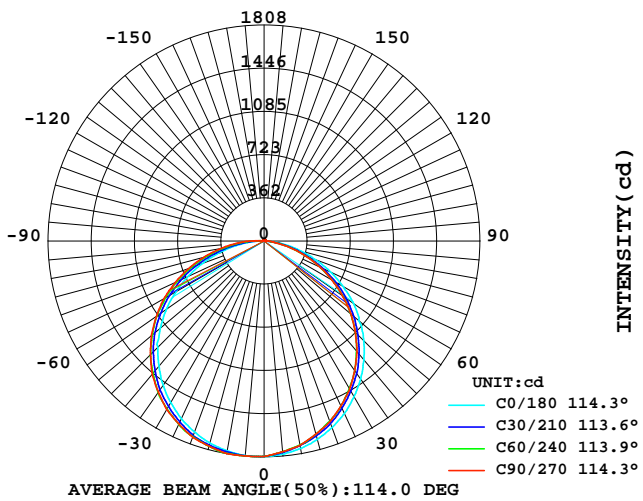
## LUMINAIRE PHOTOMETRIC TEST REPORT

Report number: 201710098

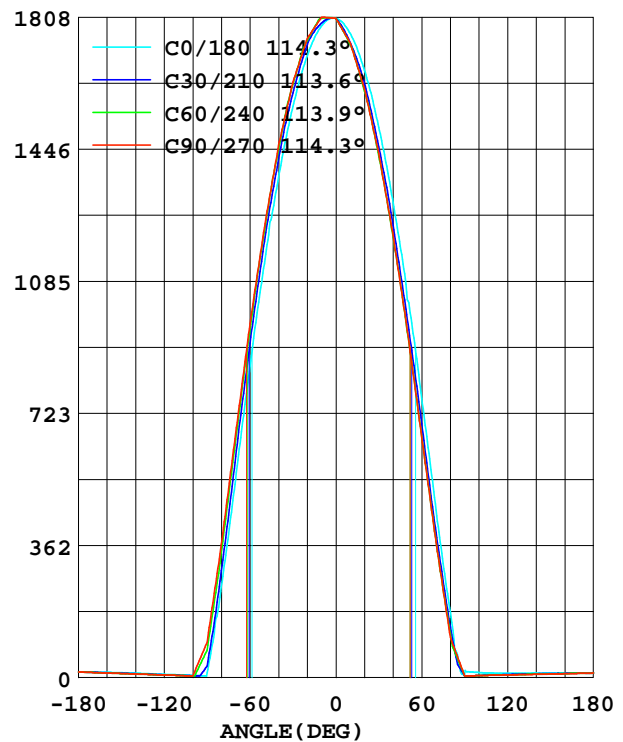
MANUFACTURER: SGSLight Limited	Address:		
NAME: TLP-60120-54-NW-100	TYPE:LED Panel Light	WEIGHT:	
SPECIFICATION:4000K CRI>80	DIMENSION: 596x1196 mm	SERIAL No.:201710098	

DATA OF LAMP		Imax(cd)	1809	S/MH(C0/180)	1.29
MODEL	4000K	EFFICIENCY(%)	100.0	S/MH(C90/270)	1.33
NOMINAL POWER(W)	54	TOTAL FLUX(lm)	5321.8	Voltage(V)	229.1
RATED VOLTAGE(V)	230	EFFICIENCY(lm/W)	99.6	Current(A)	0.339
NOMINAL FLUX(lm)	5321.9	$\eta$ up(%)	1.2	Power(W)	53.43
LAMPS QUANTITY	1	$\eta$ down(%)	98.8	Power Factor(PF)	0.941
TEST VOLTAGE(V)	229.2	Effective Flux(lm)	5321.9	EEL	0.137

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:Jason  
 Test Date:2018-10-09

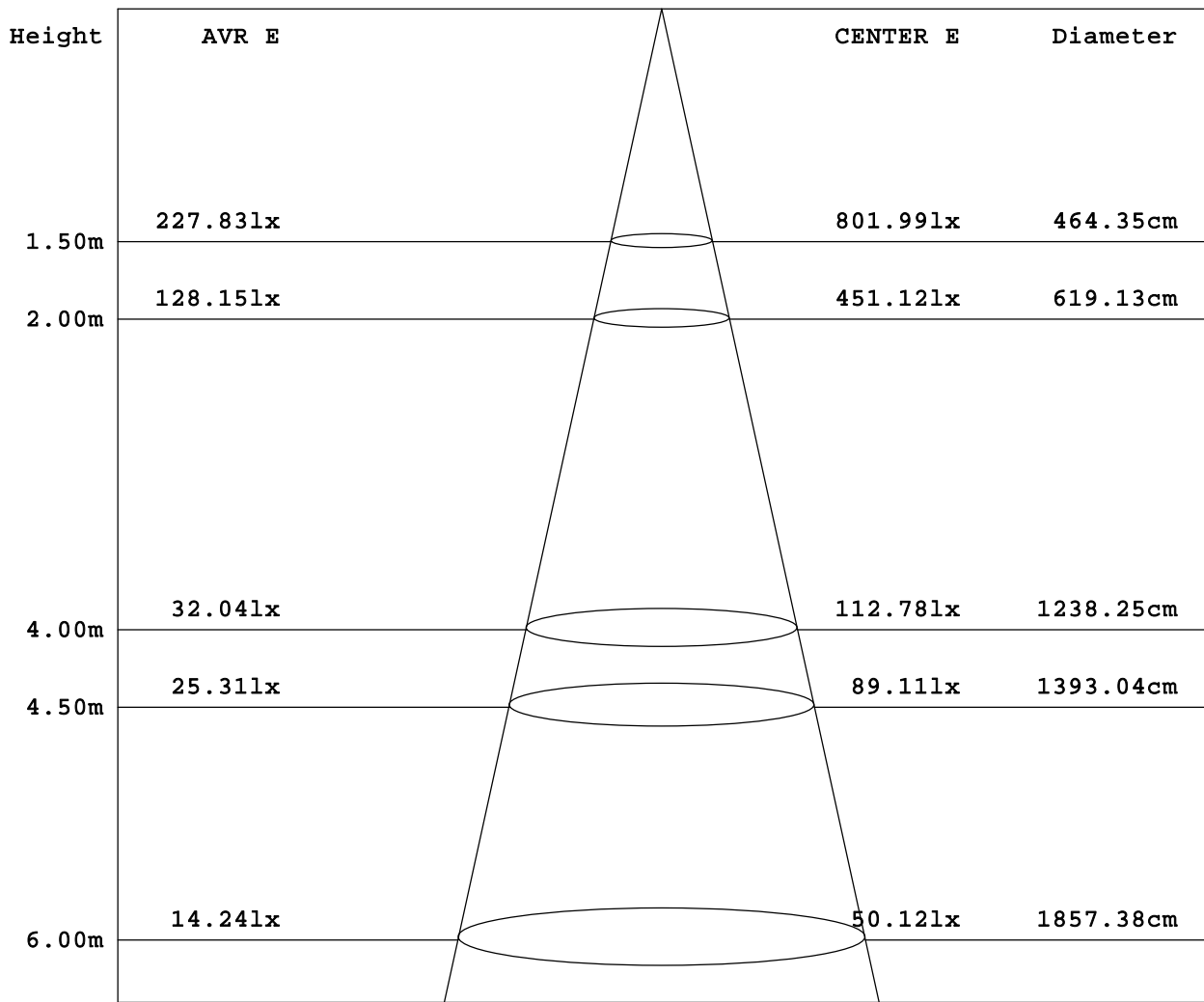
Test Set: 7.0deg/s B-Beta (TYPE B)  
 Humidity:65.0%  
 Test Distance:7.000 m  
 Remarks:

**GONIOPHOTOMETERS SYSTEM TEST REPORT**

**AVERAGE AND CENTER E Figure**

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MANUFACTURER: SGSLight Limited	Address:	
NAME: TLP-60120-54-NW-100	TYPE:LED Panel Light	WEIGHT:
SPECIFICATION:4000K CRI>80	DIMENSION: 596x1196 mm	SERIAL No.:201710098



Angle:114.3deg

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:Jason  
 Test Date:2018-10-09

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ZONAL FLUX DIAGRAM

Report number: 201710098

MANUFACTURER: SGSLight Limited	Address:	
NAME: TLP-60120-54-NW-100	TYPE:LED Panel Light	WEIGHT:
SPECIFICATION:4000K CRI>80	DIMENSION: 596x1196 mm	SERIAL No.:201710098

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	zone	total
5.0	1802	1805	1806	1798	1792	1773	1771	1781	0- 5	42.93	42.93
10.0	1784	1798	1808	1783	1763	1734	1737	1749	5- 10	127.2	170.1
15.0	1751	1779	1778	1758	1721	1683	1674	1707	10- 15	207.4	377.6
20.0	1702	1736	1749	1709	1663	1611	1611	1640	15- 20	280.5	658.2
25.0	1640	1684	1689	1653	1593	1532	1523	1566	20- 25	344.6	1003
30.0	1563	1615	1630	1581	1505	1438	1434	1478	25- 30	397.0	1400
35.0	1474	1533	1544	1494	1410	1332	1322	1379	30- 35	436.5	1836
40.0	1369	1443	1457	1399	1300	1222	1210	1272	35- 40	461.5	2298
45.0	1259	1328	1344	1288	1181	1093	1080	1144	40- 45	471.5	2770
50.0	1133	1230	1231	1176	1034	965.4	949.1	1015	45- 50	465.5	3235
55.0	998.4	1079	1100	1042	915.7	818.4	803.6	871.2	50- 55	443.8	3679
60.0	852.6	941.4	969.3	906.0	764.3	671.3	658.1	726.3	55- 60	407.4	4086
65.0	702.0	785.0	819.2	762.0	613.7	525.8	514.5	568.5	60- 65	357.6	4444
70.0	543.4	629.8	669.1	615.2	458.4	384.7	370.8	419.8	65- 70	296.8	4741
75.0	393.0	473.0	517.2	463.3	311.9	247.6	240.4	280.2	70- 75	228.8	4970
80.0	250.1	320.9	365.2	322.2	179.3	130.5	109.9	150.6	75- 80	158.0	5128
85.0	119.9	180.9	231.1	190.8	61.68	46.99	57.23	55.27	80- 85	91.75	5220
90.0	13.22	55.36	96.97	69.26	8.164	4.688	4.477	4.530	85- 90	39.36	5259
95.0	5.320	19.60	50.69	23.53	15.48	5.096	5.030	5.158	90- 95	12.30	5271
100.0	6.162	4.867	4.424	4.846	13.85	5.604	5.583	5.551	95-100	5.012	5276
105.0	7.058	5.488	5.109	5.731	13.11	6.225	6.004	5.817	100-105	3.146	5279
110.0	7.479	6.073	5.794	6.550	12.43	6.810	6.426	6.093	105-110	3.376	5283
115.0	8.322	6.748	6.478	7.391	12.22	7.352	6.847	6.411	110-115	3.554	5286
120.0	9.165	7.415	7.163	8.067	11.58	7.860	7.269	6.709	115-120	3.681	5290
125.0	9.586	8.056	7.848	8.944	11.74	8.356	7.690	7.051	120-125	3.760	5294
130.0	10.42	8.856	8.533	9.623	11.90	8.891	8.111	7.578	125-130	3.787	5298
135.0	11.27	9.425	9.218	10.26	12.00	9.326	8.533	8.070	130-135	3.757	5301
140.0	12.11	10.18	9.902	10.87	12.43	9.789	8.954	8.595	135-140	3.644	5305
145.0	12.53	10.71	10.58	11.72	12.48	10.23	9.376	8.922	140-145	3.463	5308
150.0	13.32	11.47	11.27	12.28	12.48	10.52	9.797	9.488	145-150	3.217	5312
155.0	13.74	12.15	11.95	12.82	12.16	10.68	10.21	10.08	150-155	2.891	5315
160.0	14.16	12.76	12.64	13.69	12.22	11.34	10.64	10.41	155-160	2.495	5317
165.0	14.59	13.54	13.32	14.22	12.64	11.36	11.06	11.05	160-165	2.039	5319
170.0	14.95	14.02	14.01	14.40	12.27	12.05	11.48	11.34	165-170	1.521	5321
175.0	15.38	14.89	14.69	14.89	12.32	12.02	11.90	11.81	170-175	0.946	5322
180.0	15.38	15.38	15.38	15.38	12.32	12.32	12.32	12.32	175-180	0.325	5322
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:Jason  
 Test Date:2018-10-09

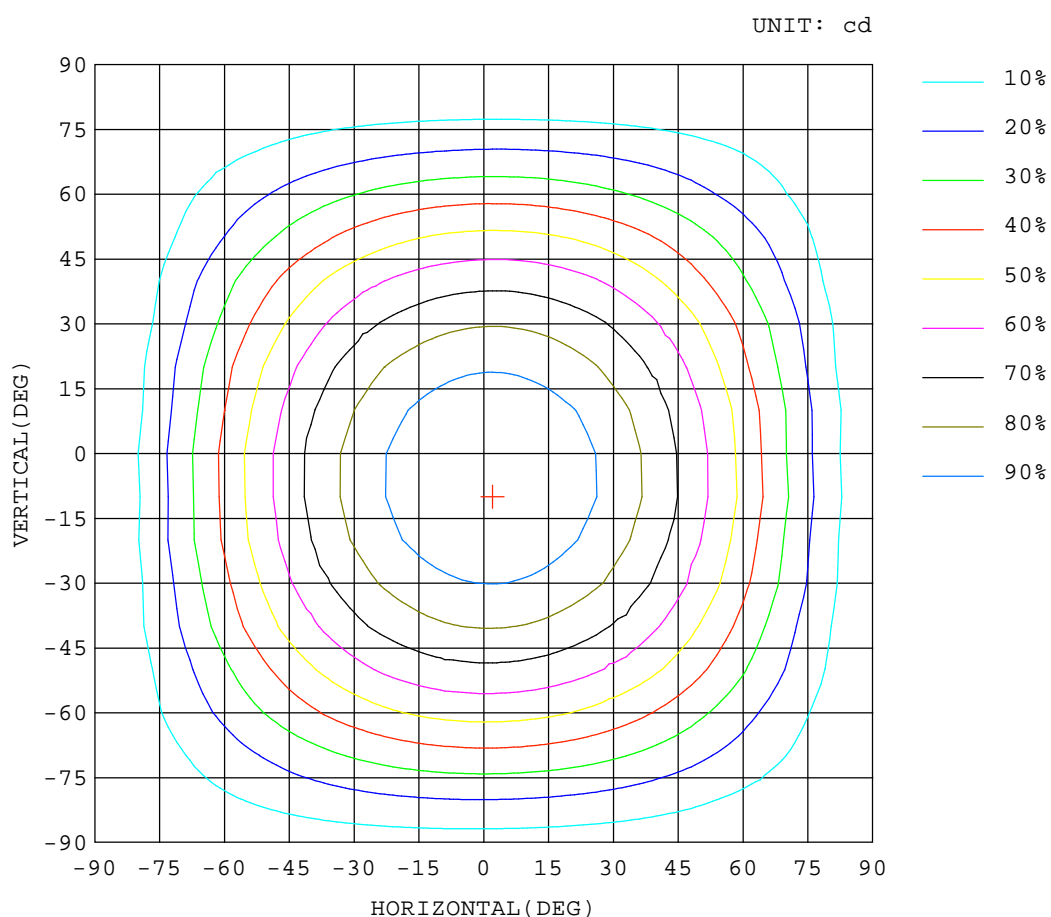
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## ISOCANDELA DIAGRAM

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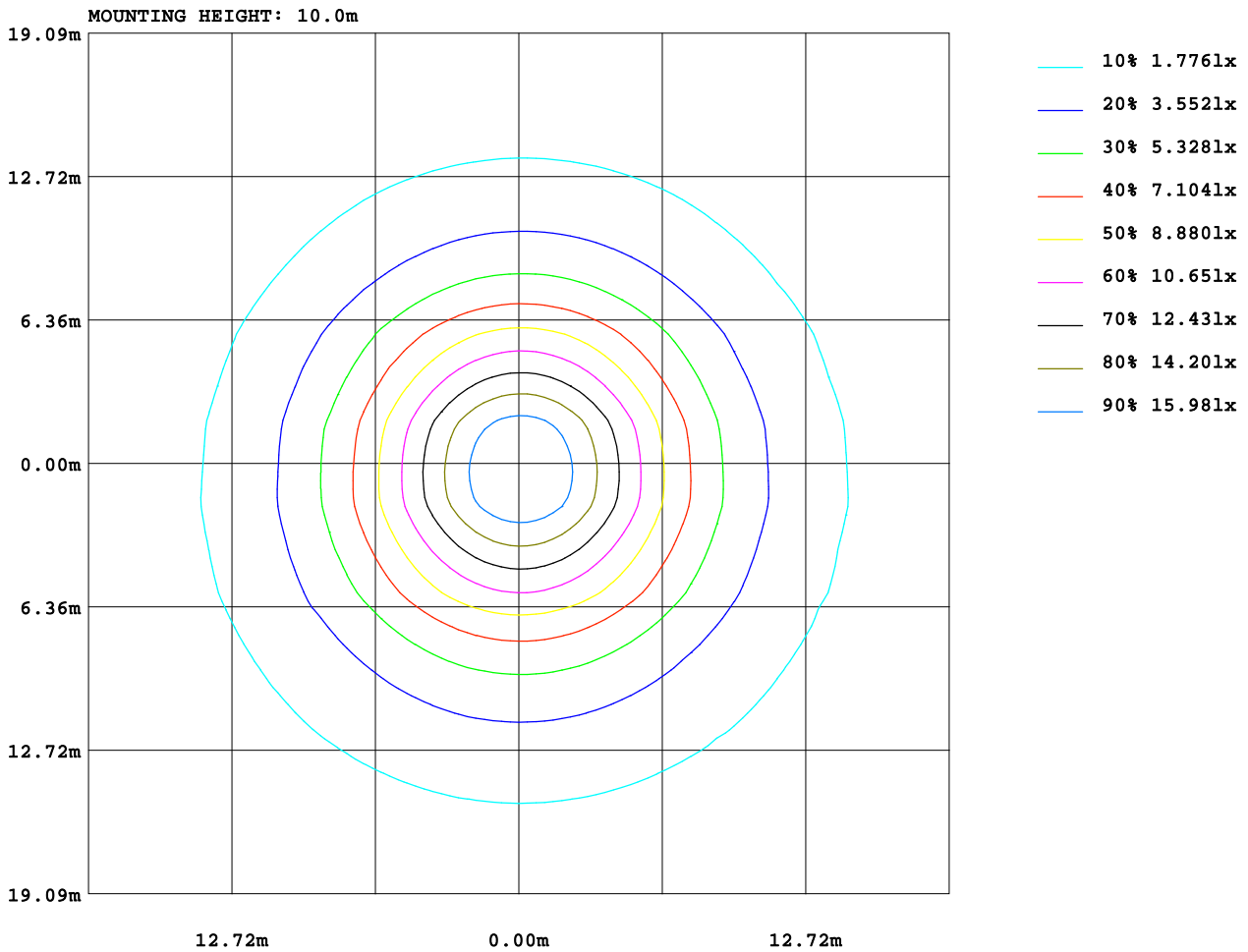
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Remarks:

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## ISOLUX DIAGRAM

Report number: 201710098

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NAME: TLP-60120-54-NW-100	TYPE:LED Panel Light	WEIGHT:
SPECIFICATION:4000K CRI>80	DIMENSION: 596x1196 mm	SERIAL No.:201710098



Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:Jason  
 Test Date:2018-10-09

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

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**Uncorrected UGR Table**

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MANUFACTURER: SGSLight Limited					Address:					
NAME: TLP-60120-54-NW-100					TYPE:LED Panel Light			WEIGHT:		
SPECIFICATION:4000K CRI>80					DIMENSION: 596x1196 mm			SERIAL No.:201710098		
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	16.3	17.8	16.6	18.1	18.3	16.7	18.3	17.0	18.5	18.7
3H	17.9	19.3	18.2	19.6	19.8	18.6	20.0	18.9	20.2	20.5
4H	18.6	19.9	18.9	20.2	20.5	19.4	20.8	19.8	21.0	21.3
6H	19.1	20.3	19.4	20.6	20.9	20.2	21.4	20.5	21.7	22.0
8H	19.3	20.5	19.6	20.8	21.1	20.5	21.7	20.8	22.0	22.3
12H	19.4	20.6	19.8	20.9	21.2	20.8	22.0	21.2	22.3	22.6
4H 2H	17.1	18.4	17.4	18.7	19.0	17.4	18.7	17.7	19.0	19.3
3H	18.9	20.0	19.2	20.4	20.7	19.4	20.6	19.8	20.9	21.2
4H	19.7	20.7	20.1	21.1	21.4	20.4	21.5	20.8	21.8	22.2
6H	20.3	21.2	20.7	21.6	22.0	21.3	22.3	21.7	22.6	23.0
8H	20.5	21.4	21.0	21.8	22.2	21.7	22.6	22.2	23.0	23.4
12H	20.7	21.5	21.2	21.9	22.4	22.1	22.9	22.6	23.3	23.8
8H 4H	20.1	21.0	20.5	21.4	21.8	20.7	21.6	21.2	22.0	22.4
6H	20.9	21.6	21.4	22.1	22.5	21.8	22.6	22.3	23.0	23.4
8H	21.2	21.9	21.7	22.3	22.8	22.4	23.0	22.8	23.5	23.9
12H	21.5	22.1	22.0	22.5	23.0	22.9	23.5	23.4	24.0	24.5
12H 4H	20.1	20.9	20.6	21.4	21.8	20.7	21.6	21.2	22.0	22.4
6H	21.0	21.7	21.5	22.1	22.6	21.9	22.6	22.4	23.0	23.5
8H	21.4	22.0	21.9	22.5	23.0	22.5	23.1	23.0	23.5	24.0
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.4					+ 0.1 / - 0.3				

CIE Pub.117 Corrected 5322 lm Total Lamp Luminous Flux.(8log(F/F0) = 5.8)

Test System:HOPOO HPG1900  
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