

# GONIOPHOTOMETERS SYSTEM TEST REPORT

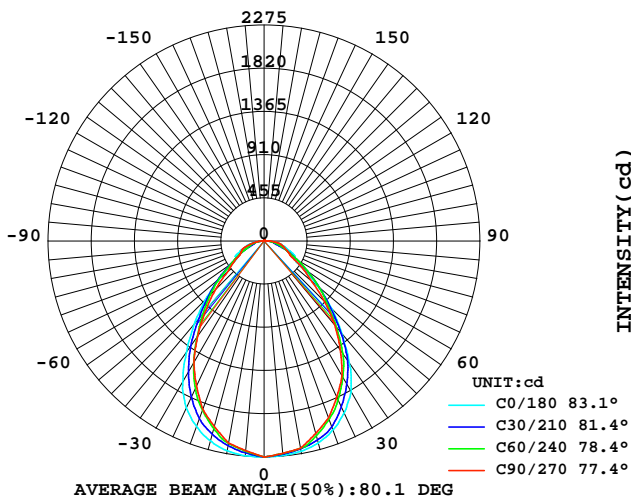
## LUMINAIRE PHOTOMETRIC TEST REPORT

Report number: 18030412

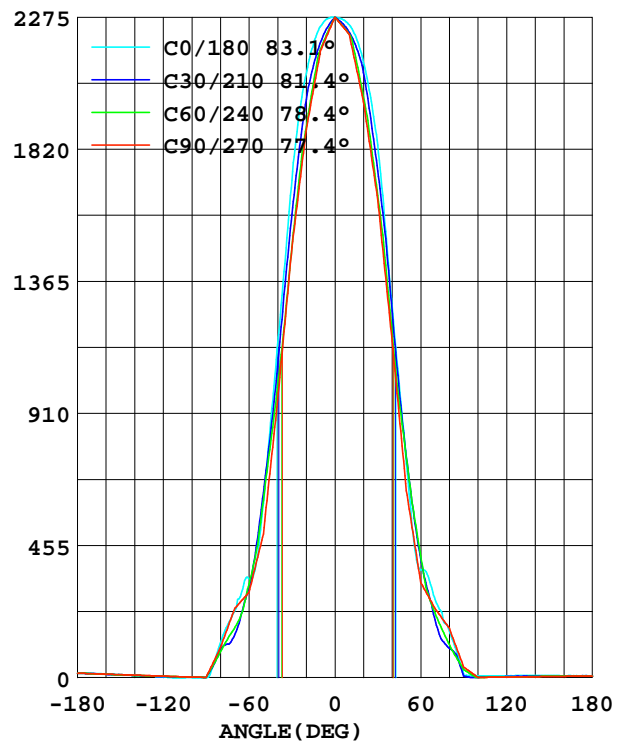
MANUFACTURER: SGSLight Limited	Address:	
NAME: TLP-6060-40-NW-105-UGR	TYPE:LED Panel Light	WEIGHT:
SPECIFICATION:4000K CRI>80	DIMENSION: 596x596mm	SERIAL No.:18030412

DATA OF LAMP		Imax(cd)	2275	S/MH(C0/180)	1.14
MODEL	4000K	EFFICIENCY(%)	100.0	S/MH(C90/270)	1.02
NOMINAL POWER(W)	40	TOTAL FLUX(lm)	4221.3	Voltage(V)	218.8
RATED VOLTAGE(V)	219	EFFICIENCY(lm/W)	106.6	Current(A)	0.161
NOMINAL FLUX(lm)	4221.3	$\eta$ up(%)	0.8	Power(W)	39.59
LAMPS QUANTITY	1	$\eta$ down(%)	99.2	Power Factor(PF)	0.970
TEST VOLTAGE(V)	218.9	Effictive Flux(lm)	3910.9	EEI	0.138

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



Test System:HOPPO HPG1900  
 Temperature:25.3DEG  
 Operators:Jason  
 Test Date:2018.3.4

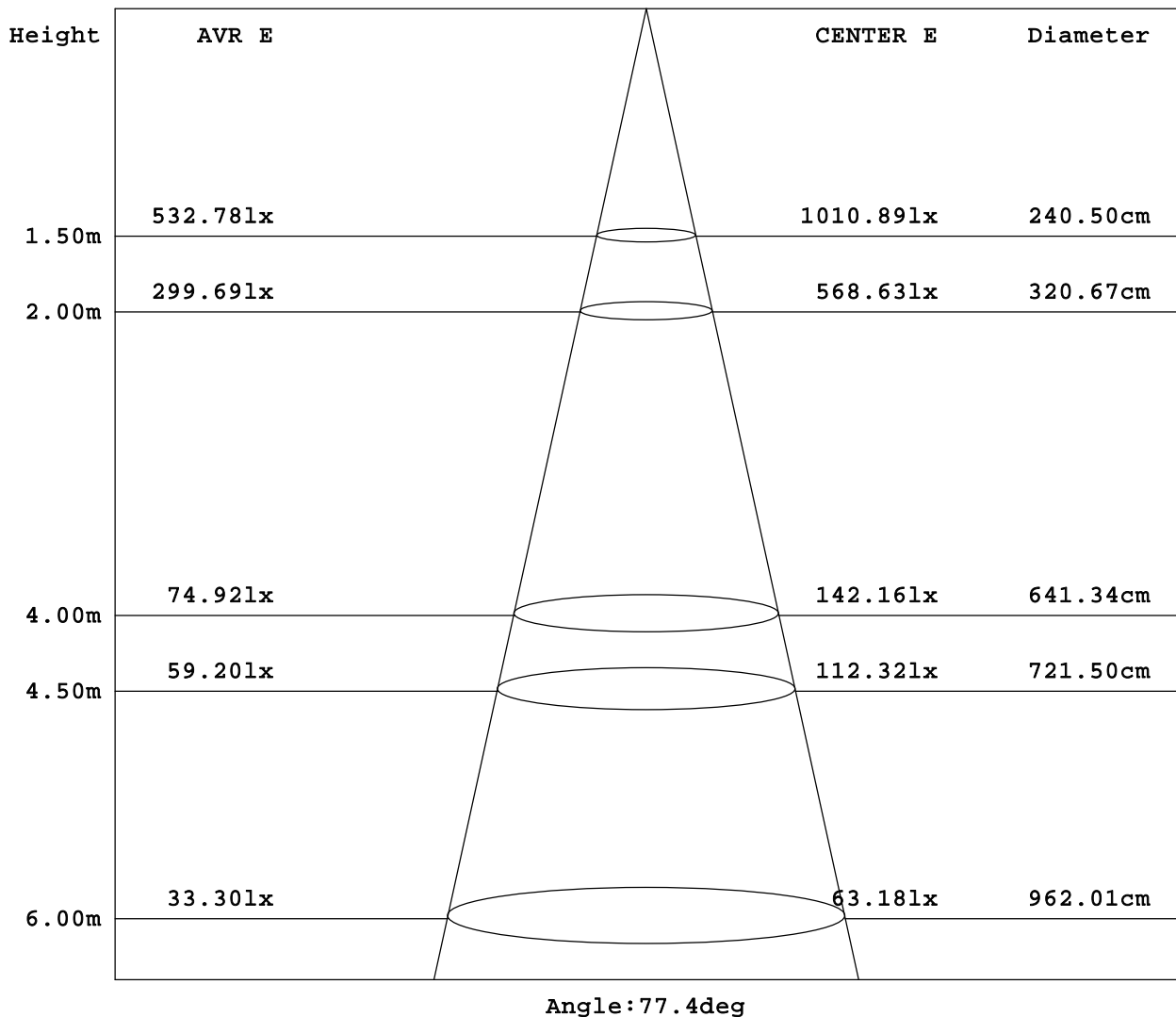
Test Set: 10.0deg/s B-Beta (TYPE B)  
 Humidity:65.0%  
 Test Distance:10.000 m  
 Remarks:

**GONIOPHOTOMETERS SYSTEM TEST REPORT**

**AVERAGE AND CENTER E Figure**

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## ZONAL FLUX DIAGRAM

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γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	zone	total
5.0	2270	2230	2217	2230	2268	2250	2245	2251	0- 5	53.90	53.90
10.0	2244	2173	2159	2180	2249	2217	2216	2218	5- 10	159.0	212.9
15.0	2179	2085	2024	2103	2204	2158	2100	2156	10- 15	256.5	469.4
20.0	2080	1931	1888	1965	2118	2030	1983	2021	15- 20	339.2	808.6
25.0	1938	1760	1685	1808	1997	1878	1814	1869	20- 25	402.7	1211
30.0	1713	1533	1482	1607	1834	1690	1644	1680	25- 30	441.1	1653
35.0	1426	1269	1218	1364	1565	1467	1402	1442	30- 35	449.1	2102
40.0	1147	1023	954.7	1102	1279	1212	1159	1186	35- 40	423.0	2525
45.0	877.3	815.4	724.4	895.0	1013	973.1	901.1	960.7	40- 45	375.2	2900
50.0	600.0	607.3	494.0	703.4	736.2	771.0	643.2	773.2	45- 50	316.1	3216
55.0	391.3	388.6	393.9	481.2	475.7	547.6	485.5	558.8	50- 55	252.6	3469
60.0	339.7	221.3	293.8	280.2	370.6	342.1	327.7	359.3	55- 60	194.7	3664
65.0	295.6	173.9	265.8	191.5	350.2	213.9	282.7	216.4	60- 65	152.4	3816
70.0	229.6	159.6	237.8	153.6	269.7	153.2	237.8	156.2	65- 70	122.4	3938
75.0	181.8	151.6	170.6	153.5	223.0	143.7	203.8	153.6	70- 75	97.05	4036
80.0	118.5	95.16	103.4	108.8	159.1	127.4	169.8	137.8	75- 80	76.29	4112
85.0	44.09	43.38	52.10	57.57	91.40	87.21	103.0	99.82	80- 85	52.81	4165
90.0	0.800	0.700	0.800	0.800	14.30	15.00	36.29	37.89	85- 90	23.73	4188
95.0	0	1.411	1.250	1.011	7.300	4.676	18.50	11.87	90- 95	5.732	4194
100.0	0.100	1.974	1.700	1.780	6.500	0.655	0.700	0.763	95-100	1.854	4196
105.0	0	2.551	2.550	3.027	6.500	1.267	1.000	0.692	100-105	1.025	4197
110.0	0	3.078	3.400	4.202	5.800	1.778	1.300	0.628	105-110	1.278	4198
115.0	0.300	3.606	4.250	5.178	6.600	2.272	1.600	0.600	110-115	1.504	4200
120.0	1.800	4.354	5.100	6.239	5.900	2.738	1.900	0.846	115-120	1.724	4201
125.0	3.300	4.924	5.950	7.449	6.000	3.177	2.200	1.047	120-125	1.909	4203
130.0	5.700	5.787	6.800	8.160	6.700	3.590	2.500	1.497	125-130	2.065	4205
135.0	6.499	6.620	7.650	9.352	6.700	4.078	2.800	1.594	130-135	2.153	4208
140.0	8.099	7.224	8.500	9.784	6.800	4.825	3.100	2.179	135-140	2.203	4210
145.0	8.999	8.239	9.349	11.02	6.800	4.792	3.400	2.309	140-145	2.184	4212
150.0	10.50	9.313	10.20	11.83	6.900	4.645	3.700	2.604	145-150	2.103	4214
155.0	12.10	10.52	11.04	12.61	6.900	5.300	4.000	3.170	150-155	1.956	4216
160.0	12.20	11.53	11.90	12.74	6.200	5.192	4.300	3.978	155-160	1.732	4218
165.0	13.70	12.78	12.74	13.69	7.000	5.826	4.600	4.163	160-165	1.464	4219
170.0	14.50	13.36	13.59	14.12	6.200	5.707	4.900	4.344	165-170	1.112	4220
175.0	14.50	14.69	14.45	14.69	6.200	6.359	5.200	5.287	170-175	0.706	4221
180.0	15.29	15.29	15.29	15.29	5.500	5.500	5.500	5.500	175-180	0.245	4221
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

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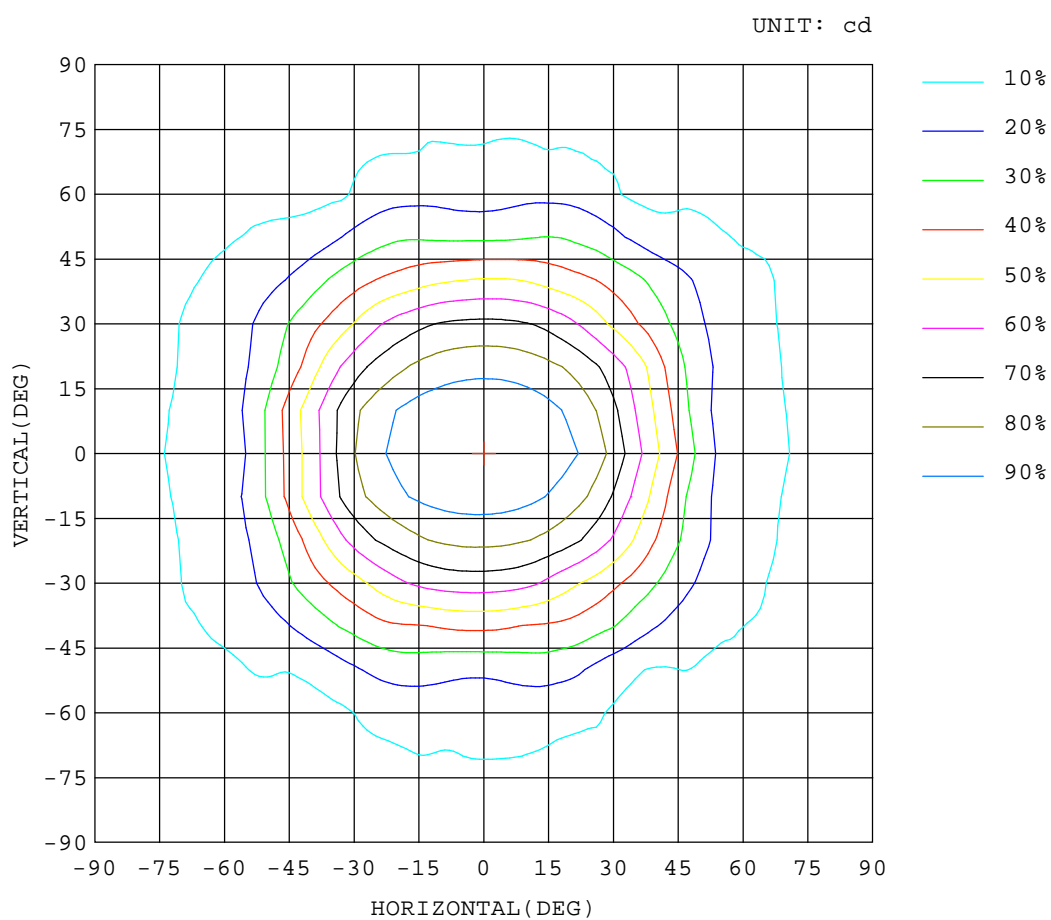
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## ISOCANDELA DIAGRAM

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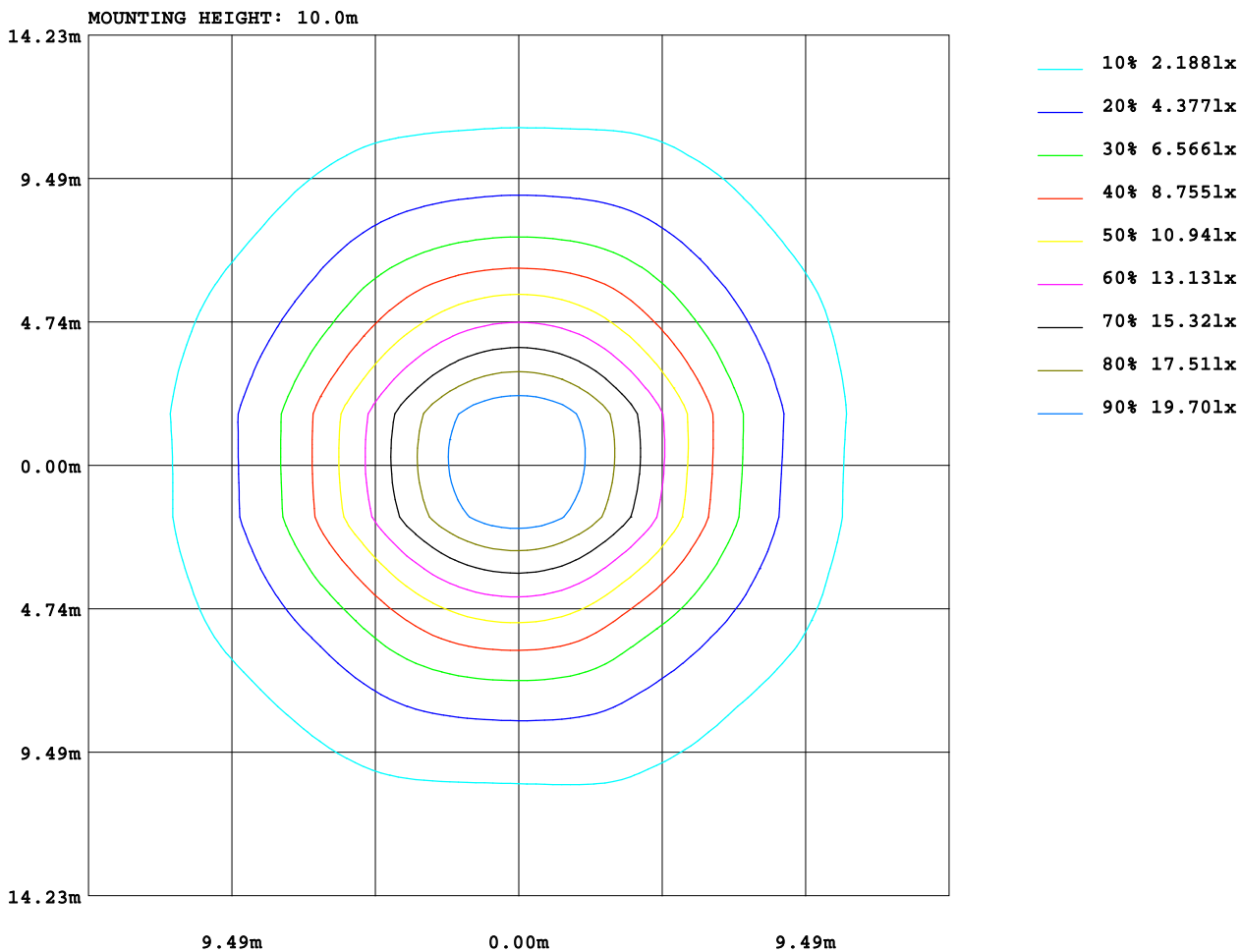
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## ISOLUX DIAGRAM

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**Uncorrected UGR Table**

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SPECIFICATION:4000K CRI>80					DIMENSION: 596x596mm			SERIAL No.:18030412		
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	14.5	15.8	14.8	16.0	16.2	14.1	15.4	14.3	15.6	15.8
3H	15.6	16.8	15.8	17.0	17.2	15.2	16.4	15.5	16.7	16.9
4H	16.1	17.2	16.4	17.5	17.8	15.9	17.0	16.2	17.3	17.5
6H	16.6	17.7	16.9	18.0	18.3	16.3	17.4	16.7	17.7	18.0
8H	16.8	17.8	17.1	18.1	18.4	16.5	17.6	16.9	17.9	18.2
12H	16.9	17.9	17.2	18.2	18.5	16.7	17.7	17.0	18.0	18.3
4H 2H	14.6	15.7	14.9	16.0	16.2	14.2	15.3	14.5	15.6	15.8
3H	15.8	16.8	16.1	17.1	17.4	15.5	16.5	15.9	16.8	17.2
4H	16.5	17.4	16.9	17.7	18.1	16.3	17.2	16.7	17.6	17.9
6H	17.2	18.0	17.6	18.4	18.8	17.0	17.9	17.4	18.2	18.6
8H	17.5	18.3	17.9	18.6	19.0	17.3	18.1	17.7	18.5	18.9
12H	17.7	18.4	18.1	18.8	19.2	17.5	18.2	18.0	18.6	19.0
8H 4H	16.6	17.4	17.0	17.8	18.2	16.5	17.3	16.9	17.6	18.0
6H	17.5	18.1	17.9	18.5	19.0	17.4	18.0	17.8	18.4	18.8
8H	17.9	18.4	18.3	18.9	19.3	17.8	18.3	18.2	18.7	19.2
12H	18.2	18.6	18.6	19.1	19.6	18.1	18.6	18.6	19.0	19.5
12H 4H	16.6	17.3	17.1	17.7	18.1	16.5	17.2	16.9	17.6	18.0
6H	17.5	18.1	18.0	18.5	19.0	17.4	18.0	17.9	18.4	18.9
8H	18.0	18.4	18.4	18.9	19.4	17.8	18.3	18.3	18.8	19.3
Variations with the observer position at spacings:										
S = 1.0H	+ 0.4 / - 0.6					+ 0.3 / - 0.5				
1.5H	+ 0.4 / - 0.5					+ 0.2 / - 0.5				
2.0H	+ 0.9 / - 0.6					+ 0.8 / - 0.7				

CIE Pub.117 Corrected 4221 lm Total Lamp Luminous Flux.(8log(F/F0) = 5.0)

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