

# GONIOPHOTOMETERS SYSTEM TEST REPORT

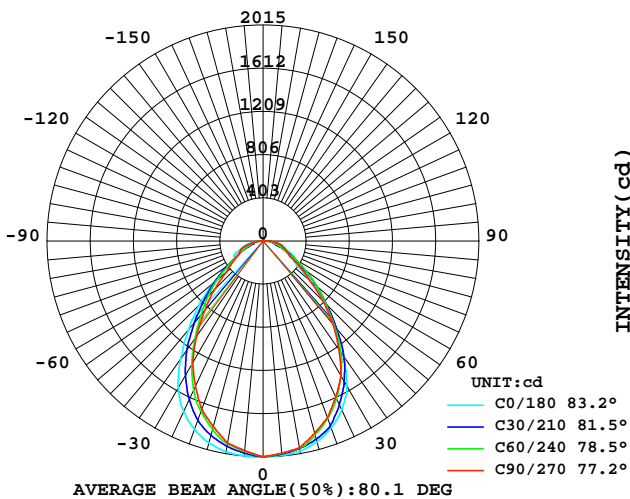
## LUMINAIRE PHOTOMETRIC TEST REPORT

Report number: 17122303

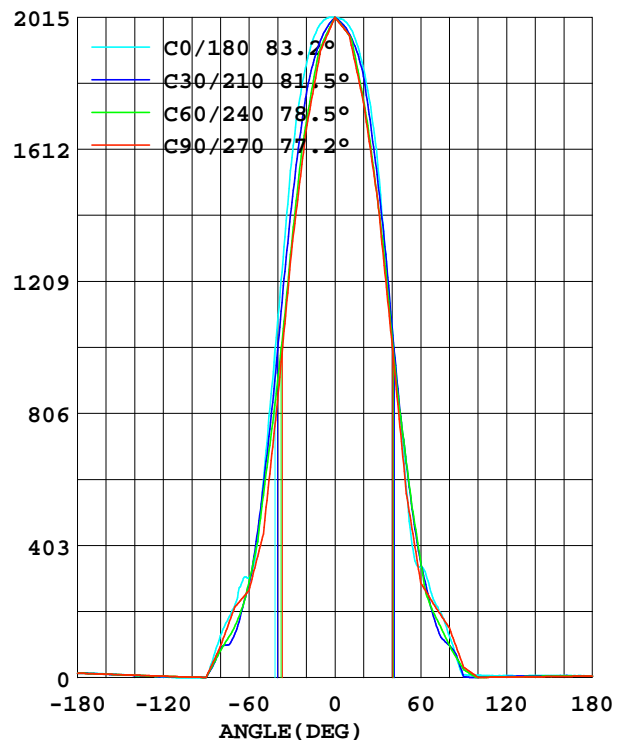
MANUFACTURER: SGSLight Limited	Address:	
NAME: TLP-30120-38-NW-100V-UGR	TYPE:LED Panel Light	WEIGHT:
SPECIFICATION:4000K CRI>90	DIMENSION: 296x1196mm	SERIAL No.:17122303

DATA OF LAMP		Imax(cd)	2015	S/MH(C0/180)	1.17
MODEL	4000K	EFFICIENCY(%)	100.0	S/MH(C90/270)	1.02
NOMINAL POWER(W)	38	TOTAL FLUX(lm)	3744.5	Voltage(V)	218.8
RATED VOLTAGE(V)	219	EFFICIENCY(lm/W)	99.1	Current(A)	0.162
NOMINAL FLUX(lm)	3744.6	$\eta$ up(%)	0.8	Power(W)	37.79
LAMPS QUANTITY	1	$\eta$ down(%)	99.2	Power Factor(PF)	0.969
TEST VOLTAGE(V)	218.8	Effective Flux(lm)	3466.1	EEL	0.149

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:Jason  
 Test Date:2017-12-23

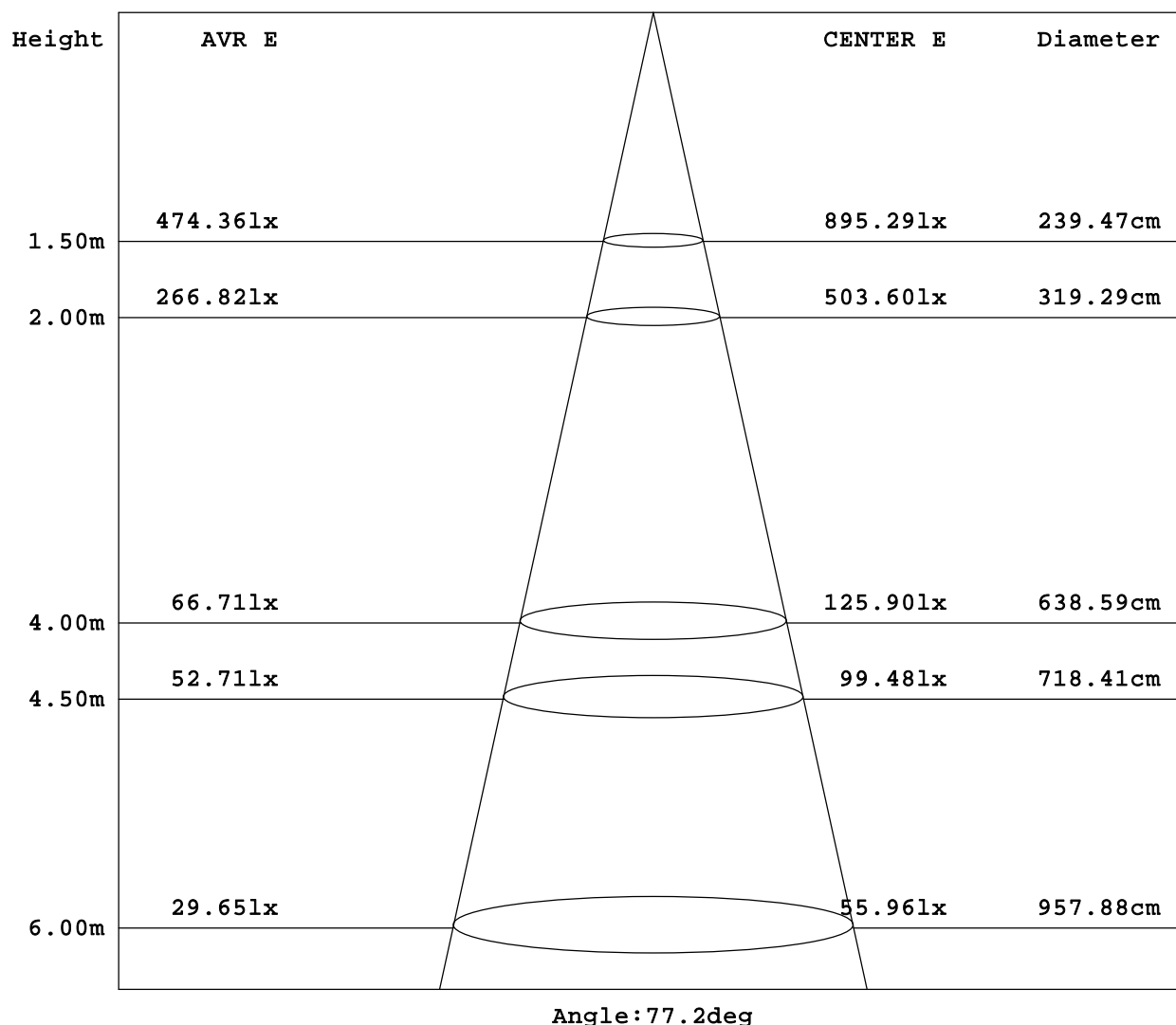
Test Set: 10.0deg/s B-Beta (TYPE B)  
 Humidity:65.0%  
 Test Distance:10.000 m  
 Remarks:

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## 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	2013	1978	1964	1975	2009	1992	1988	1996	0- 5	47.75	47.75
10.0	1995	1931	1913	1931	1989	1962	1961	1968	5- 10	140.9	188.6
15.0	1951	1855	1794	1861	1939	1905	1858	1915	10- 15	227.3	416.0
20.0	1870	1725	1674	1733	1858	1785	1756	1802	15- 20	300.7	716.8
25.0	1753	1581	1494	1586	1741	1643	1605	1671	20- 25	357.1	1074
30.0	1587	1386	1314	1406	1564	1473	1455	1507	25- 30	391.2	1465
35.0	1345	1149	1080	1190	1316	1269	1235	1296	30- 35	398.0	1863
40.0	1085	924.0	846.7	962.4	1068	1036	1016	1064	35- 40	374.4	2238
45.0	843.8	744.6	642.5	775.0	820.7	835.7	788.5	867.0	40- 45	331.8	2570
50.0	604.0	565.7	438.2	598.9	579.7	661.9	561.2	697.8	45- 50	279.5	2849
55.0	384.6	360.0	352.1	408.1	379.0	463.8	425.3	504.6	50- 55	223.0	3072
60.0	304.0	193.4	266.0	241.0	338.2	284.5	289.3	320.4	55- 60	172.2	3244
65.0	289.7	154.0	240.3	170.0	295.5	185.5	253.3	192.2	60- 65	135.2	3380
70.0	219.1	140.8	214.8	143.4	228.3	143.0	217.3	134.7	65- 70	109.1	3489
75.0	175.8	138.4	155.0	140.3	190.1	132.2	184.6	138.5	70- 75	87.15	3576
80.0	127.1	87.77	95.30	100.2	126.8	113.0	151.8	128.1	75- 80	69.32	3645
85.0	59.09	39.59	48.00	53.05	63.30	73.91	91.84	95.03	80- 85	48.11	3693
90.0	1.000	0.400	0.700	0.800	6.000	12.10	31.79	34.20	85- 90	21.49	3715
95.0	0	1.105	1.100	0.815	7.200	3.745	16.19	10.58	90- 95	5.098	3720
100.0	0	1.674	1.500	1.566	7.200	0.515	0.600	0.560	95-100	1.647	3722
105.0	0	2.152	2.250	2.728	6.400	1.060	0.850	0.492	100-105	0.924	3723
110.0	0	2.596	3.000	3.830	6.400	1.578	1.100	0.489	105-110	1.160	3724
115.0	1.400	3.138	3.750	4.892	6.500	2.072	1.350	0.600	110-115	1.381	3725
120.0	2.199	3.838	4.500	5.969	6.500	2.538	1.600	0.600	115-120	1.577	3727
125.0	3.799	4.487	5.250	6.902	5.800	2.730	1.850	0.810	120-125	1.743	3728
130.0	4.599	5.169	6.000	7.561	5.800	3.490	2.100	0.999	125-130	1.860	3730
135.0	6.199	5.973	6.750	8.705	5.800	3.878	2.350	1.047	130-135	1.946	3732
140.0	7.100	6.908	7.500	9.104	6.600	3.865	2.600	1.586	135-140	1.999	3734
145.0	8.700	7.441	8.250	10.32	5.900	4.156	2.850	1.673	140-145	1.977	3736
150.0	9.499	8.435	9.000	10.68	6.700	4.616	3.100	2.333	145-150	1.906	3738
155.0	10.30	9.527	9.750	11.18	6.000	4.722	3.350	2.452	150-155	1.759	3740
160.0	11.09	10.67	10.50	12.44	6.800	4.437	3.600	3.222	155-160	1.568	3741
165.0	11.90	11.19	11.25	12.48	6.800	4.971	3.850	3.685	160-165	1.311	3743
170.0	12.69	11.74	12.00	13.06	6.100	4.912	4.100	4.244	165-170	0.995	3744
175.0	13.50	12.96	12.75	12.96	4.600	4.422	4.350	4.422	170-175	0.625	3744
180.0	13.50	13.50	13.50	13.50	4.600	4.600	4.600	4.600	175-180	0.212	3745
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

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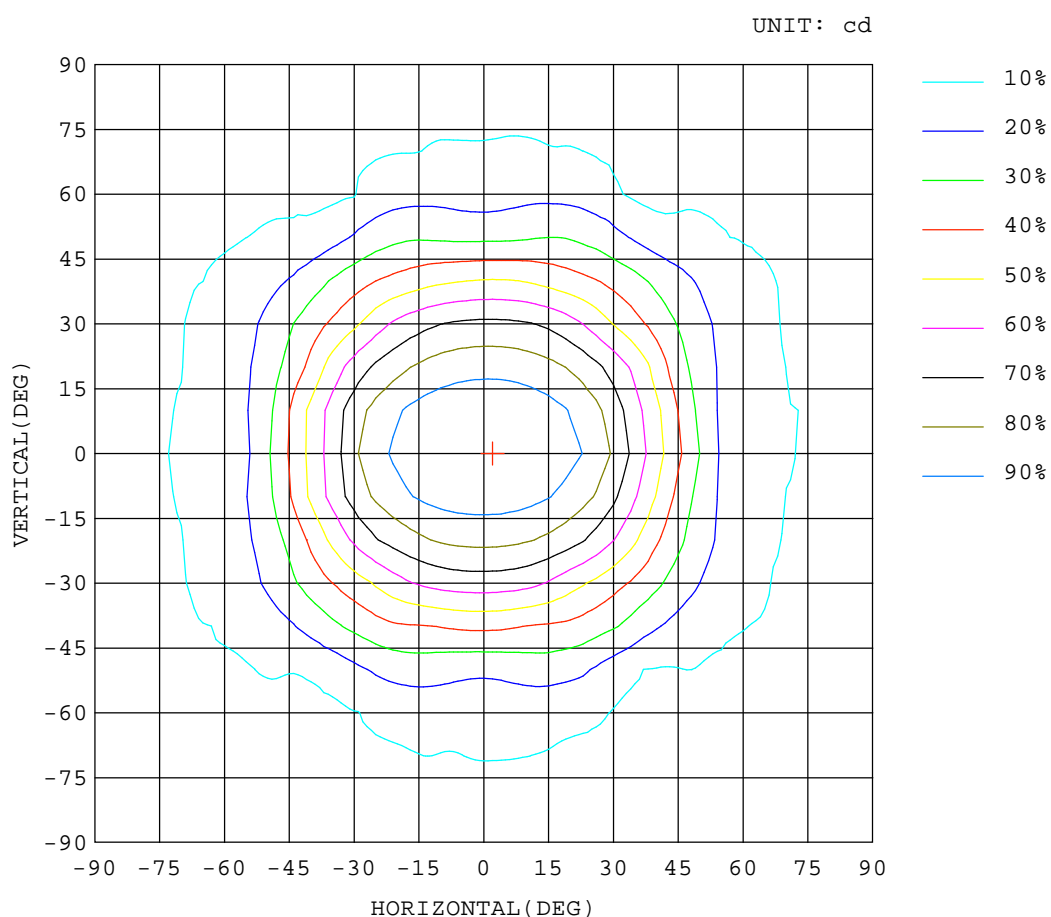
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## ISOCANDELA DIAGRAM

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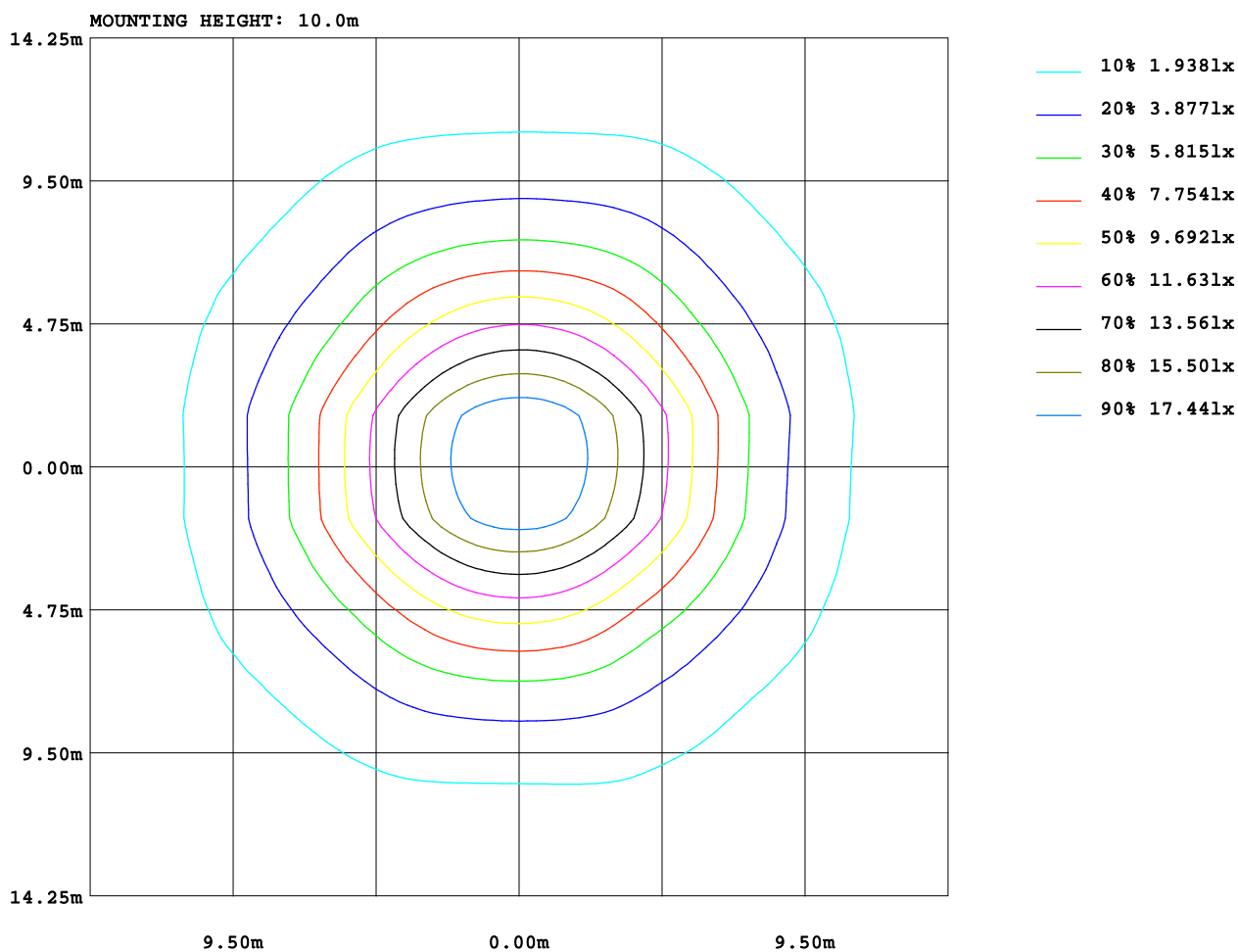
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**Uncorrected UGR Table**

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SPECIFICATION:4000K CRI>90					DIMENSION: 296x1196mm			SERIAL No.:17122303		
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	14.4	15.7	14.7	15.9	16.2	13.7	15.0	14.0	15.2	15.5
3H	15.5	16.7	15.8	17.0	17.2	14.9	16.1	15.2	16.4	16.6
4H	16.1	17.2	16.4	17.5	17.7	15.5	16.7	15.9	17.0	17.2
6H	16.6	17.7	17.0	18.0	18.3	16.0	17.1	16.4	17.4	17.7
8H	16.9	17.9	17.2	18.2	18.5	16.2	17.3	16.6	17.6	17.9
12H	17.0	18.1	17.4	18.4	18.7	16.4	17.4	16.7	17.7	18.0
4H 2H	14.5	15.6	14.8	15.9	16.1	13.9	15.0	14.2	15.3	15.5
3H	15.7	16.7	16.0	17.0	17.3	15.2	16.2	15.6	16.5	16.9
4H	16.4	17.3	16.8	17.7	18.0	16.0	16.9	16.4	17.3	17.6
6H	17.2	18.0	17.6	18.4	18.7	16.7	17.6	17.2	17.9	18.3
8H	17.5	18.3	18.0	18.7	19.1	17.0	17.8	17.5	18.2	18.6
12H	17.8	18.5	18.2	18.9	19.3	17.3	18.0	17.7	18.4	18.8
8H 4H	16.5	17.3	17.0	17.7	18.1	16.2	17.0	16.6	17.3	17.7
6H	17.4	18.1	17.9	18.5	18.9	17.1	17.7	17.5	18.1	18.6
8H	17.9	18.4	18.4	18.9	19.3	17.5	18.0	18.0	18.5	18.9
12H	18.3	18.7	18.7	19.2	19.7	17.8	18.3	18.3	18.8	19.3
12H 4H	16.5	17.2	17.0	17.6	18.1	16.2	16.9	16.6	17.3	17.7
6H	17.5	18.0	18.0	18.5	18.9	17.1	17.7	17.6	18.1	18.6
8H	18.0	18.4	18.4	18.9	19.4	17.6	18.0	18.1	18.5	19.0
Variations with the observer position at spacings:										
S = 1.0H	+ 0.4 / - 0.5					+ 0.3 / - 0.5				
1.5H	+ 0.4 / - 0.3					+ 0.2 / - 0.5				
2.0H	+ 1.1 / - 0.7					+ 0.7 / - 0.7				

CIE Pub.117 Corrected 3745 lm Total Lamp Luminous Flux. (8log(F/F0) = 4.6)

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