

GONIOPHOTOMETERS SYSTEM TEST REPORT

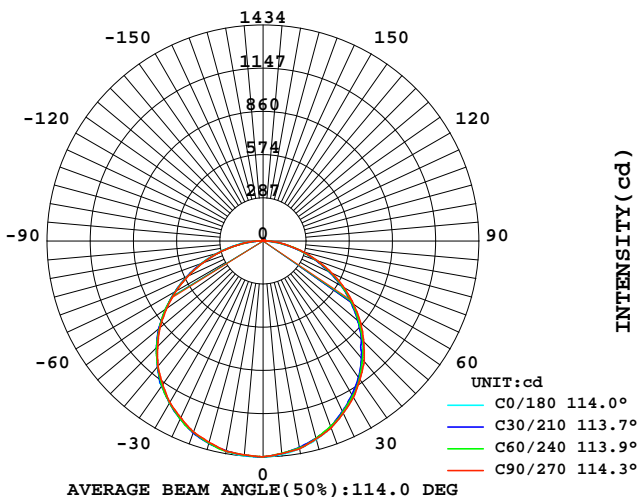
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number: 16062203

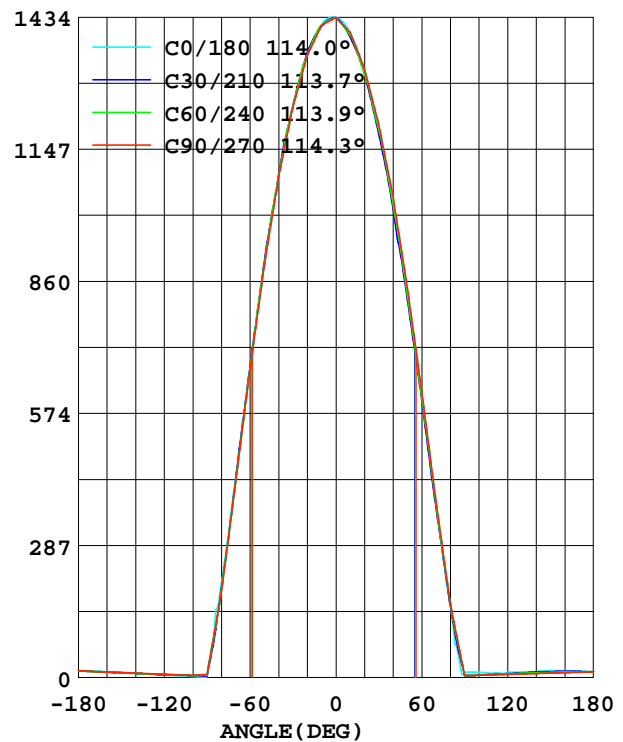
MANUFACTURER: TulipLED B. V.	Address:SGSLight Limited	
NAME: TLP-X-1512N-50-IP65	TYPE:LED Panel Light	WEIGHT:
SPECIFICATION:4000K CRI>80	DIMENSION: 150x1196mm	SERIAL No.:16062203

DATA OF LAMP		Imax(cd)	1434	S/MH(C0/180)	1.28
MODEL	4000K	EFFICIENCY(%)	100.0	S/MH(C90/270)	1.28
NOMINAL POWER(W)	50	TOTAL FLUX(lm)	4213.6	Voltage(V)	229.0
RATED VOLTAGE(V)	230	EFFICIENCY(lm/W)	84.7	Current(A)	0.193
NOMINAL FLUX(lm)	4213.7	η up(%)	1.2	Power(W)	49.72
LAMPS QUANTITY	1	η down(%)	98.8	Power Factor(PF)	0.943
TEST VOLTAGE(V)	229.0	Effective Flux(lm)	4213.6	EEL	0.161

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:Jason
 Test Date:2016-06-22

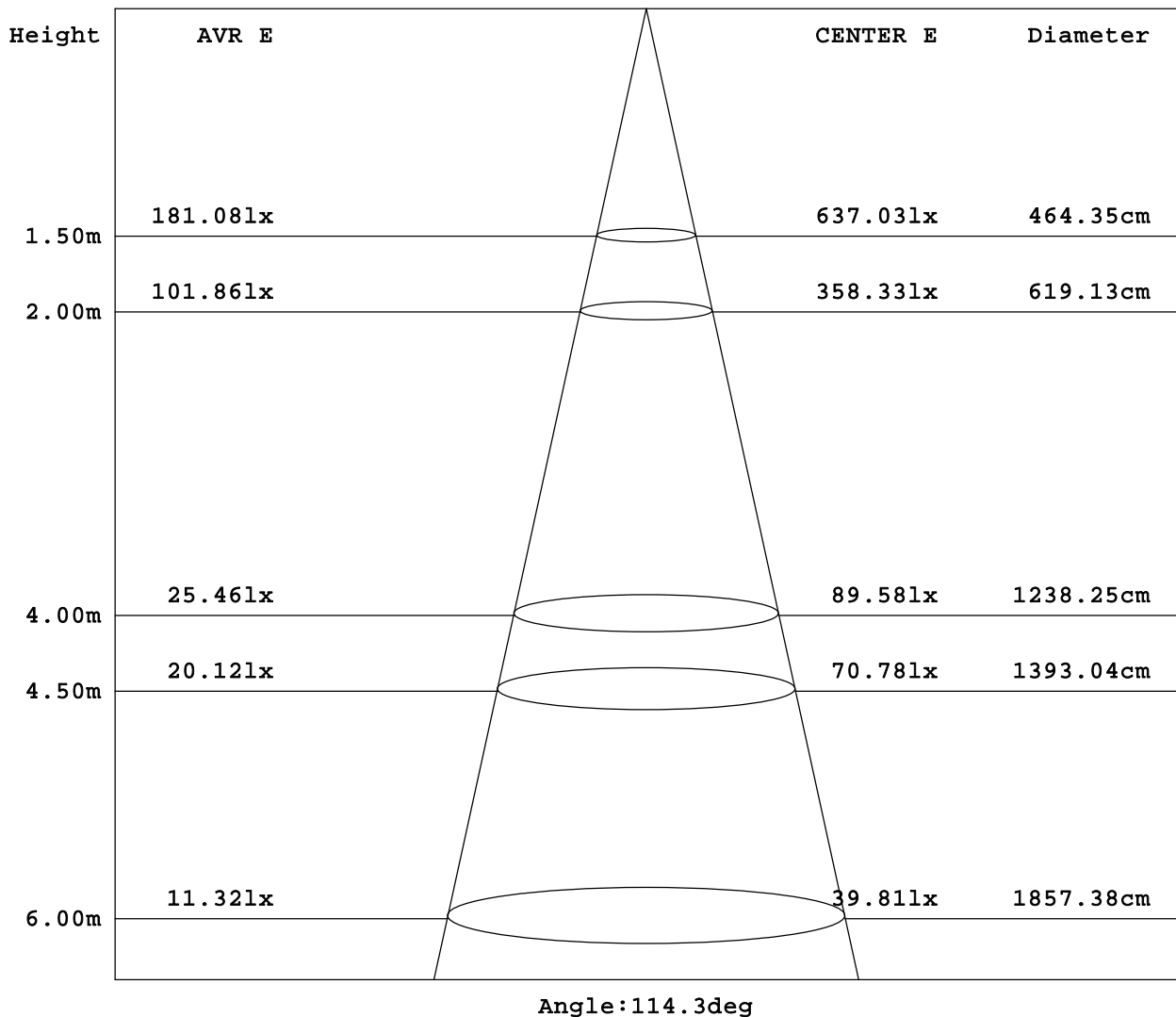
Test Set: 7.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks:

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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	1432	1427	1425	1421	1423	1416	1417	1422	0- 5	34.11	34.11
10.0	1417	1415	1417	1403	1400	1392	1401	1405	5- 10	101.1	135.2
15.0	1391	1394	1384	1375	1365	1358	1361	1378	10- 15	164.8	300.1
20.0	1354	1352	1351	1328	1319	1308	1322	1332	15- 20	222.9	523.1
25.0	1302	1305	1295	1278	1260	1252	1262	1282	20- 25	273.8	796.9
30.0	1242	1244	1239	1214	1192	1184	1201	1217	25- 30	315.4	1112
35.0	1170	1172	1163	1139	1114	1106	1123	1143	30- 35	347.1	1460
40.0	1090	1092	1087	1061	1027	1025	1045	1063	35- 40	367.0	1827
45.0	996.9	998.8	990.6	964.6	933.8	927.0	945.6	968.4	40- 45	374.8	2201
50.0	898.8	901.3	894.6	870.3	832.4	831.6	846.8	870.1	45- 50	369.9	2571
55.0	787.7	790.3	781.4	758.0	720.7	716.4	734.9	759.4	50- 55	352.7	2924
60.0	676.2	677.1	668.2	647.9	607.2	603.6	623.1	647.0	55- 60	323.2	3247
65.0	555.5	551.6	546.3	530.0	492.2	488.9	503.1	524.8	60- 65	283.5	3531
70.0	435.6	427.8	424.3	413.6	372.5	375.5	383.2	404.7	65- 70	234.8	3766
75.0	315.4	307.5	304.6	295.9	260.5	260.1	272.2	288.7	70- 75	180.7	3947
80.0	205.6	191.7	184.9	188.6	153.7	161.1	161.2	179.4	75- 80	124.4	4071
85.0	99.77	89.43	95.96	92.32	59.17	75.61	82.77	84.44	80- 85	70.29	4141
90.0	10.18	4.024	7.005	7.602	6.707	4.471	4.273	4.223	85- 90	23.59	4165
95.0	1.540	4.381	5.838	5.295	11.47	4.784	4.695	4.605	90- 95	2.730	4168
100.0	2.335	4.757	4.670	4.797	11.22	5.296	5.117	4.829	95-100	2.701	4170
105.0	3.527	5.162	5.291	5.605	9.987	5.930	5.589	4.979	100-105	2.853	4173
110.0	3.974	5.634	5.912	6.372	9.589	6.576	6.061	5.198	105-110	3.058	4176
115.0	5.167	6.099	6.533	7.170	9.241	7.311	6.533	5.467	110-115	3.244	4180
120.0	6.012	6.639	7.154	7.942	11.17	8.343	7.005	5.821	115-120	3.396	4183
125.0	6.856	7.084	7.775	8.734	11.42	9.108	7.477	6.254	120-125	3.531	4186
130.0	8.049	7.791	8.397	9.425	11.62	9.773	7.949	6.572	125-130	3.578	4190
135.0	8.893	8.399	9.018	10.02	12.47	10.52	8.421	7.092	130-135	3.562	4194
140.0	9.738	9.031	9.639	10.88	12.91	11.14	8.893	7.367	135-140	3.489	4197
145.0	10.18	9.488	10.26	11.25	14.50	11.68	9.365	7.871	140-145	3.372	4200
150.0	11.37	10.21	10.88	12.03	14.90	12.19	9.837	8.414	145-150	3.142	4204
155.0	12.17	11.11	11.50	12.59	14.95	12.43	10.30	8.888	150-155	2.838	4206
160.0	12.62	11.83	12.12	13.09	14.95	12.56	10.78	9.579	155-160	2.454	4209
165.0	13.41	12.58	12.74	13.43	14.21	12.82	11.25	10.23	160-165	2.007	4211
170.0	13.81	13.36	13.36	14.08	13.81	12.74	11.72	11.22	165-170	1.499	4212
175.0	14.21	13.96	13.98	14.16	13.06	12.71	12.19	11.75	170-175	0.935	4213
180.0	14.60	14.60	14.60	14.60	12.67	12.67	12.67	12.67	175-180	0.319	4214
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

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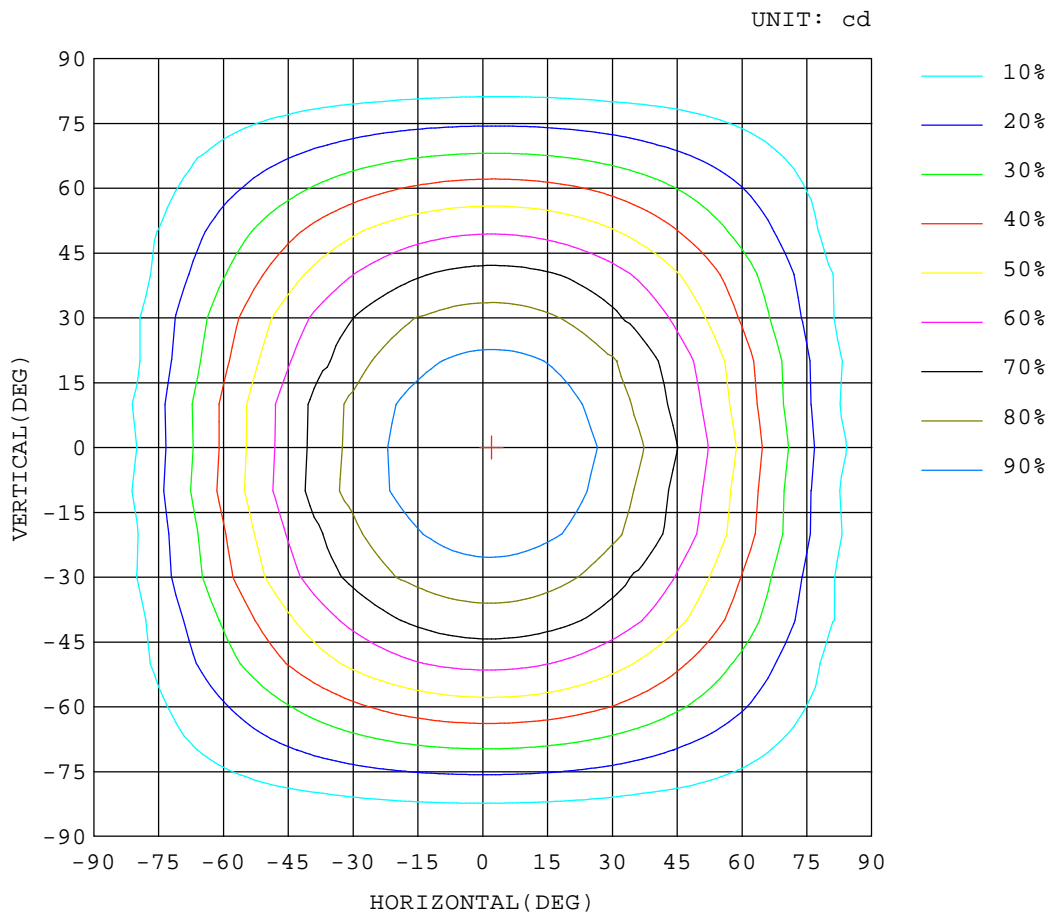
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ISOCANDELA DIAGRAM

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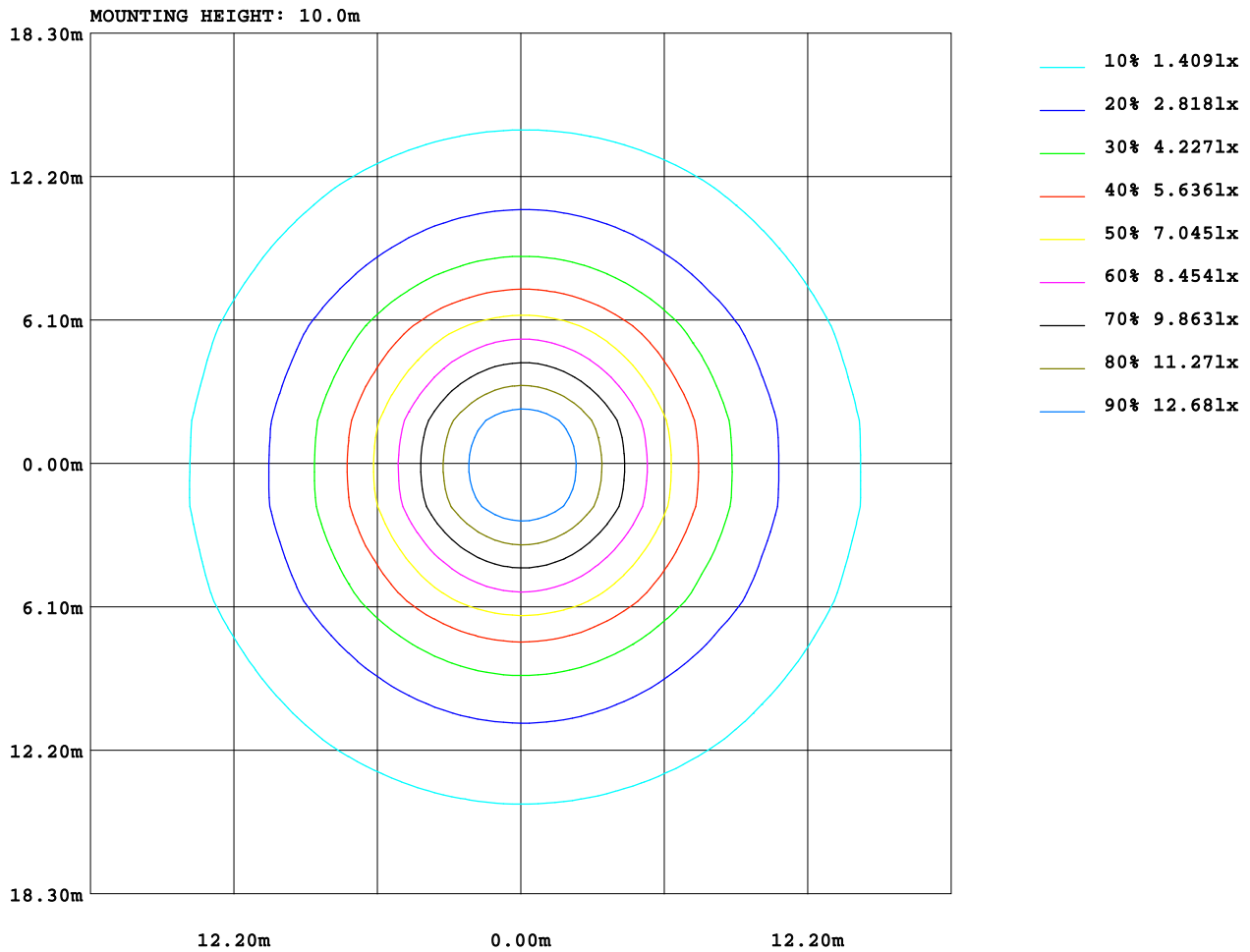
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ISOLUX DIAGRAM

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Uncorrected UGR Table

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SPECIFICATION:4000K CRI>80					DIMENSION: 150x1196mm			SERIAL No.:16062203		
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	20.1	21.6	20.3	21.8	22.0	20.0	21.5	20.3	21.7	22.0
3H	21.7	23.1	22.0	23.3	23.6	21.6	23.0	21.9	23.2	23.5
4H	22.3	23.7	22.7	24.0	24.2	22.2	23.6	22.6	23.8	24.1
6H	22.9	24.1	23.2	24.4	24.7	22.7	24.0	23.0	24.2	24.6
8H	23.1	24.3	23.4	24.6	24.9	22.9	24.1	23.2	24.4	24.7
12H	23.2	24.4	23.6	24.7	25.1	23.0	24.2	23.4	24.5	24.8
4H 2H	20.7	22.0	21.0	22.3	22.6	20.6	22.0	21.0	22.2	22.5
3H	22.5	23.6	22.8	24.0	24.3	22.4	23.6	22.8	23.9	24.2
4H	23.3	24.3	23.7	24.7	25.0	23.2	24.2	23.6	24.6	24.9
6H	23.9	24.9	24.3	25.2	25.6	23.8	24.7	24.2	25.1	25.5
8H	24.2	25.1	24.6	25.4	25.9	24.0	24.9	24.4	25.3	25.7
12H	24.4	25.2	24.8	25.6	26.0	24.2	25.0	24.6	25.4	25.8
8H 4H	23.6	24.4	24.0	24.8	25.2	23.5	24.4	23.9	24.7	25.2
6H	24.4	25.1	24.8	25.5	26.0	24.2	25.0	24.7	25.4	25.8
8H	24.7	25.4	25.2	25.8	26.3	24.5	25.2	25.0	25.6	26.1
12H	25.0	25.5	25.5	26.0	26.5	24.8	25.4	25.3	25.9	26.4
12H 4H	23.6	24.4	24.0	24.8	25.2	23.5	24.3	23.9	24.7	25.1
6H	24.4	25.1	24.9	25.5	26.0	24.3	24.9	24.8	25.4	25.9
8H	24.8	25.4	25.3	25.8	26.3	24.7	25.2	25.2	25.7	26.2
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.1 / - 0.3				

CIE Pub.117 Corrected 4214 lm Total Lamp Luminous Flux.(8log(F/F0) = 5.0)

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