

HONGPU GONIOPHOTOMETERS SYSTEM TEST REPORT

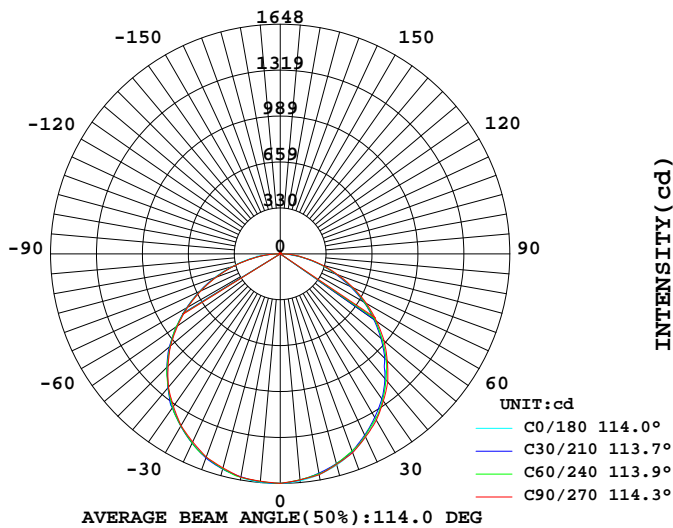
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

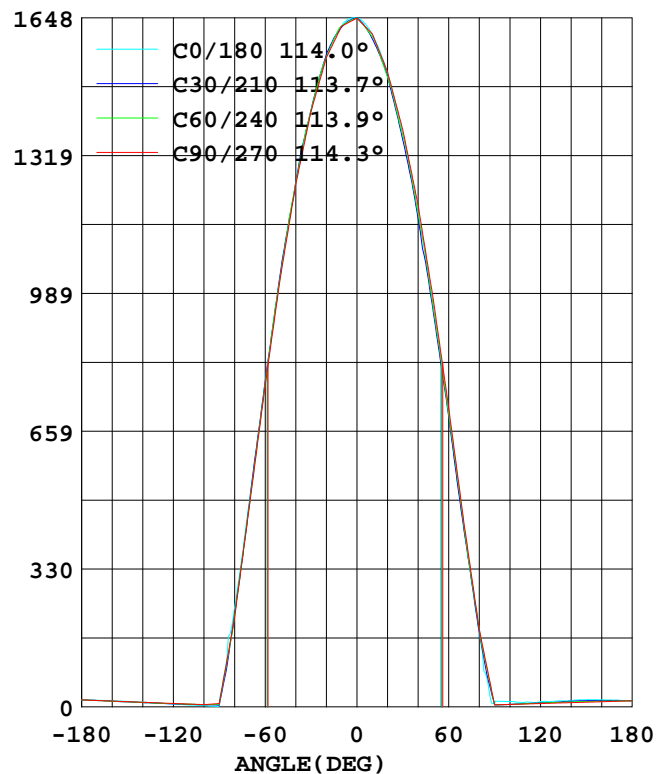
MANUFACTURER:		Address:	
NAME: FPL-105-UL24-52W		TYPE: Panel Light	WEIGHT:
SPECIFICATION: 6041204		DIMENSION:	SERIAL No.:

DATA OF LAMP		Imax(cd)	1648	S/MH(C0/180)	1.28
MODEL	WW	EFFICIENCY(%)	100.0	S/MH(C90/270)	1.28
NOMINAL POWER(W)	52	TOTAL FLUX(lm)	4843.2	Voltage(V)	230.1
RATED VOLTAGE(V)	230	EFFICIENCY(lm/W)	93.5	Current(A)	0.235
NOMINAL FLUX(lm)	4843.2	$\eta$ up(%)	1.2	Power(W)	51.81
LAMPS QUANTITY	1	$\eta$ down(%)	98.8	Power Factor(PF)	0.958
TEST VOLTAGE(V)	230.1	Effective Flux(lm)	4843.2	EEL	0.146

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



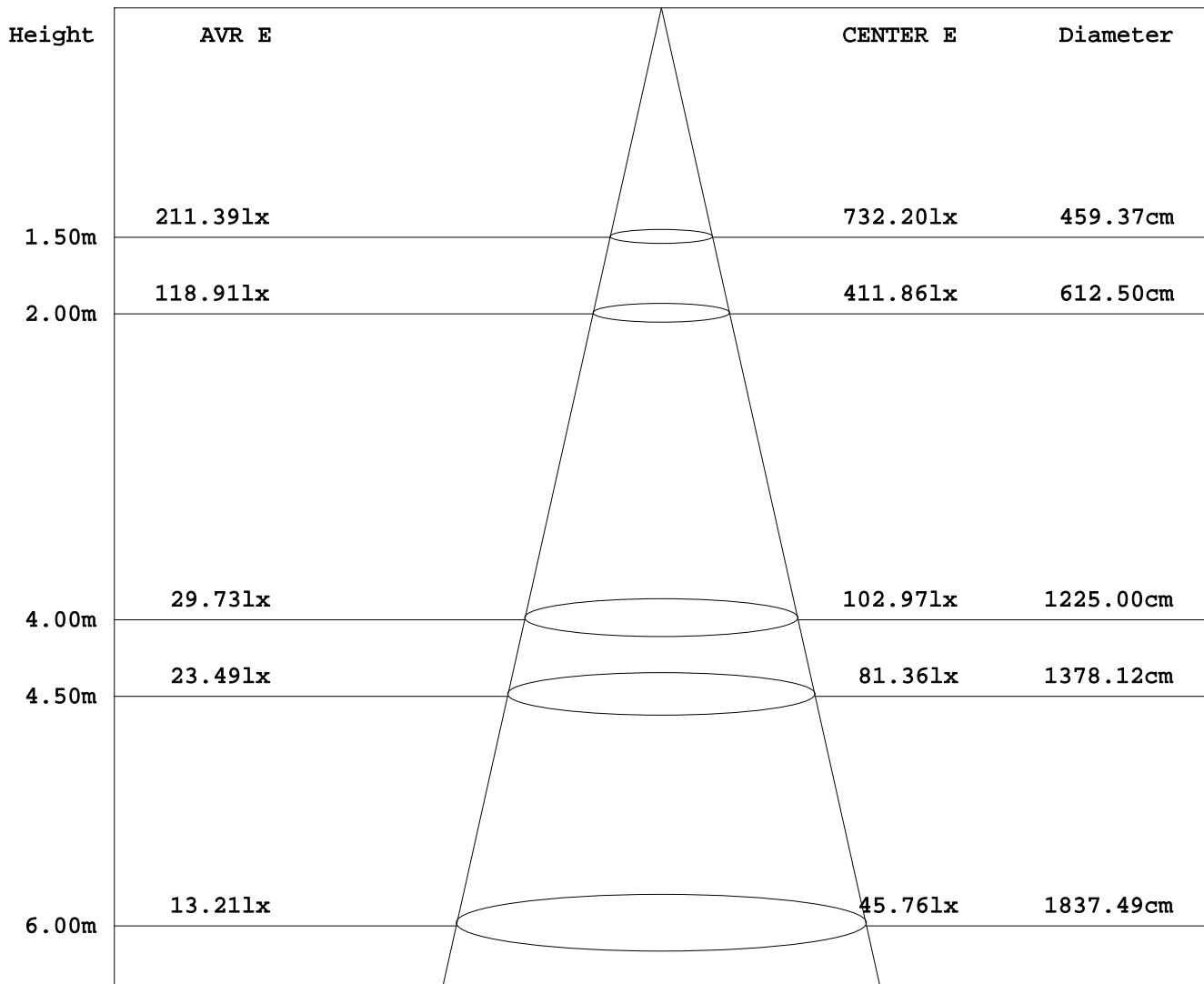
Test System: HOPOO HPG1900  
 Temperature: 25.3 DEG  
 Operators:  
 Test Date: 2015-09-06

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

AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER:	Address:	
NAME: FPL-105-UL24-52W	TYPE: Panel Light	WEIGHT:
SPECIFICATION: 6041204	DIMENSION:	SERIAL No.:



Angle: 113.7deg

Test System: HOPOO HPG1900  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2015-09-06

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

HONGPU GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER:	Address:	
NAME: FPL-105-UL24-52W	TYPE: Panel Light	WEIGHT:
SPECIFICATION: 6041204	DIMENSION:	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	zone	total
5.0	1646	1641	1638	1634	1636	1628	1629	1635	0- 5	39.21	39.21
10.0	1629	1627	1628	1612	1609	1600	1610	1615	5- 10	116.2	155.4
15.0	1599	1602	1590	1580	1569	1561	1565	1584	10- 15	189.5	344.9
20.0	1556	1554	1553	1527	1516	1503	1519	1532	15- 20	256.3	601.2
25.0	1496	1500	1488	1469	1449	1439	1450	1473	20- 25	314.7	916.0
30.0	1428	1429	1424	1395	1371	1361	1381	1399	25- 30	362.6	1279
35.0	1344	1347	1337	1309	1280	1271	1291	1314	30- 35	398.9	1678
40.0	1253	1256	1249	1219	1181	1178	1201	1222	35- 40	421.9	2100
45.0	1146	1148	1139	1109	1073	1066	1087	1113	40- 45	430.7	2530
50.0	1033	1036	1028	1000	956.8	955.9	973.3	1000	45- 50	425.2	2956
55.0	905.4	908.4	898.1	871.3	828.4	823.4	844.8	872.9	50- 55	405.4	3361
60.0	777.2	778.3	768.1	744.7	697.9	693.8	716.2	743.7	55- 60	371.5	3733
65.0	638.6	634.0	627.9	609.2	565.8	561.9	578.3	603.2	60- 65	325.8	4059
70.0	500.6	491.7	487.7	475.4	428.1	431.6	440.4	465.2	65- 70	269.9	4328
75.0	362.5	353.5	350.1	340.2	299.4	298.9	312.9	331.8	70- 75	207.7	4536
80.0	236.3	220.3	212.5	216.8	176.7	185.1	185.3	206.2	75- 80	143.0	4679
85.0	114.6	102.8	110.3	106.1	68.01	86.90	95.14	97.05	80- 85	80.79	4760
90.0	11.70	4.625	8.052	8.737	7.709	5.139	4.911	4.854	85- 90	27.12	4787
95.0	1.770	5.036	6.710	6.086	13.19	5.498	5.396	5.293	90- 95	3.138	4790
100.0	2.684	5.468	5.368	5.513	12.90	6.088	5.882	5.551	95-100	3.104	4793
105.0	4.054	5.933	6.082	6.442	11.47	6.816	6.424	5.723	100-105	3.279	4797
110.0	4.568	6.476	6.796	7.325	11.02	7.559	6.967	5.974	105-110	3.515	4800
115.0	5.939	7.010	7.509	8.241	10.62	8.403	7.509	6.284	110-115	3.729	4804
120.0	6.910	7.631	8.223	9.129	12.84	9.590	8.052	6.691	115-120	3.903	4808
125.0	7.881	8.143	8.937	10.03	13.13	10.46	8.595	7.188	120-125	4.059	4812
130.0	9.251	8.955	9.651	10.83	13.36	11.23	9.137	7.554	125-130	4.112	4816
135.0	10.22	9.654	10.36	11.52	14.33	12.09	9.680	8.151	130-135	4.095	4820
140.0	11.19	10.38	11.07	12.51	14.84	12.80	10.22	8.468	135-140	4.011	4824
145.0	11.70	10.90	11.79	12.93	16.67	13.42	10.76	9.047	140-145	3.876	4828
150.0	13.07	11.73	12.50	13.83	17.13	14.01	11.30	9.671	145-150	3.612	4832
155.0	13.99	12.77	13.22	14.48	17.19	14.28	11.85	10.21	150-155	3.262	4835
160.0	14.50	13.60	13.93	15.04	17.19	14.43	12.39	11.01	155-160	2.820	4838
165.0	15.41	14.46	14.64	15.44	16.33	14.74	12.93	11.75	160-165	2.307	4840
170.0	15.87	15.35	15.36	16.19	15.87	14.64	13.47	12.90	165-170	1.724	4842
175.0	16.33	16.05	16.07	16.28	15.01	14.61	14.02	13.50	170-175	1.074	4843
180.0	16.79	16.79	16.79	16.79	14.56	14.56	14.56	14.56	175-180	0.367	4843
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

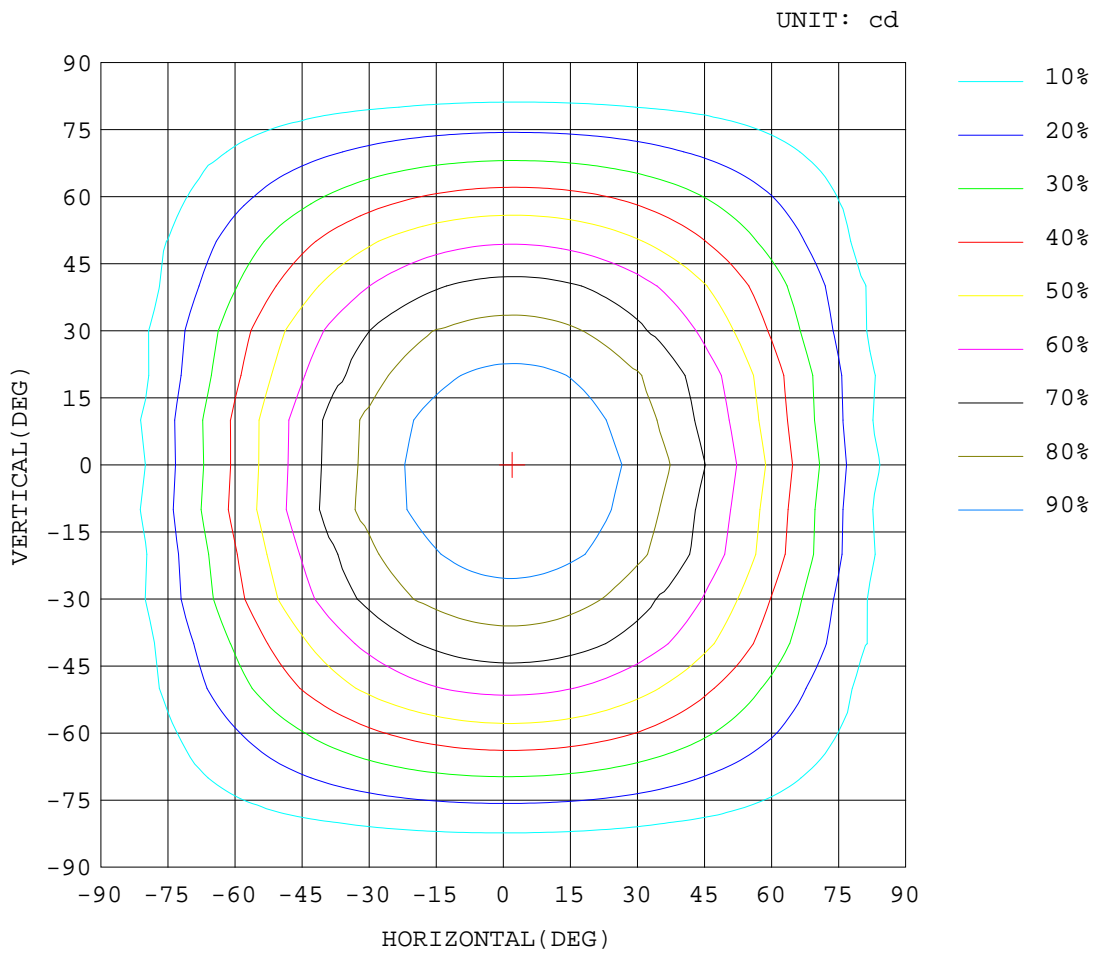
Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2015-09-06

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

ISOCANDELA DIAGRAM

Report number:

<b>MANUFACTURER:</b>	<b>Address:</b>	
<b>NAME: FPL-105-UL24-52W</b>	<b>TYPE:Panel Light</b>	<b>WEIGHT:</b>
<b>SPECIFICATION:6041204</b>	<b>DIMENSION:</b>	<b>SERIAL No.:</b>



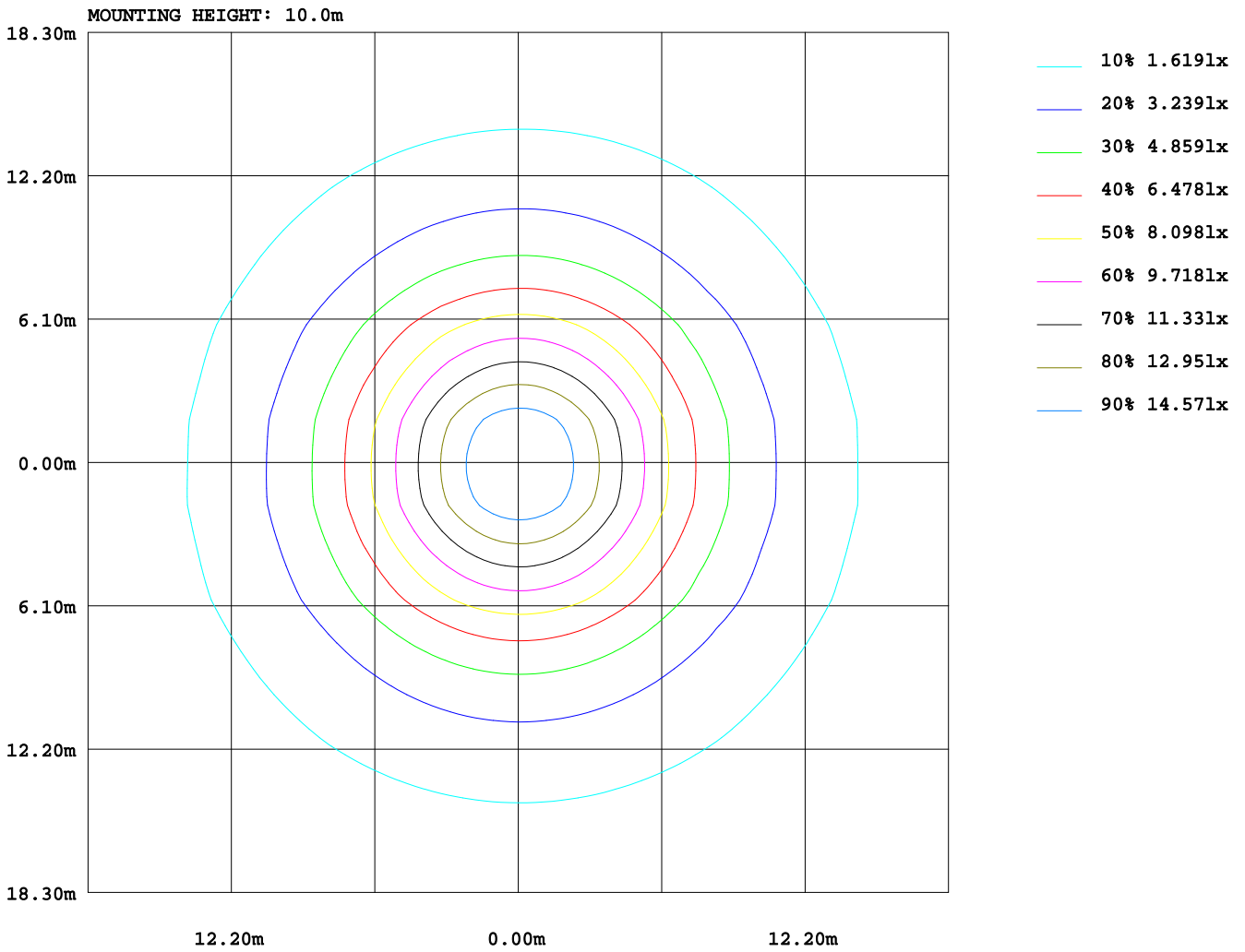
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 Temperature:25.3DEG  
 Operators:  
 Test Date:2015-09-06

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

ISOLUX DIAGRAM

Report number:

MANUFACTURER:	Address:	
NAME: FPL-105-UL24-52W	TYPE: Panel Light	WEIGHT:
SPECIFICATION: 6041204	DIMENSION:	SERIAL No.:



Test System: HOPOO HPG1900  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2015-09-06

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

HONGPU GONIOPHOTOMETERS SYSTEM TEST REPORT

AREA LUMINOUS FLUX

Report number:

MANUFACTURER:				Address:							
NAME: FPL-105-UL24-52W				TYPE: Panel Light				WEIGHT:			
SPECIFICATION: 6041204				DIMENSION:				SERIAL No.:			

		AREA FLUX DIAGRAM																	UNIT:lm		Φ t	Φ a
VERTICAL (DEG)	90	0.01	0.04	0.06	0.09	0.10	0.12	0.13	0.13	0.13	0.13	0.12	0.11	0.10	0.08	0.06	0.03	0.01	1.59	1.59		
	80	0.02	0.30	1.13	2.33	3.77	5.29	6.63	7.66	8.25	8.34	7.91	7.01	5.75	4.29	2.79	1.49	0.54	0.07	73.6	73.6	
	70	0.06	0.76	2.43	4.78	7.66	10.7	13.5	15.7	17.0	17.1	16.1	14.1	11.4	8.36	5.40	2.87	1.01	0.13	150	150	
	60	0.09	1.10	3.51	7.05	11.4	16.0	20.3	23.6	25.5	25.8	24.3	21.3	17.2	12.6	8.08	4.25	1.57	0.19	224	224	
	50	0.14	1.60	4.73	9.45	15.1	21.1	26.6	30.8	33.1	33.3	31.3	27.4	22.1	16.1	10.2	5.37	1.92	0.22	291	291	
	40	0.13	1.77	5.53	11.1	17.9	25.0	31.5	36.5	39.4	39.7	37.5	33.1	26.9	19.8	12.7	6.70	2.46	0.35	349	349	
	30	0.24	2.24	6.60	13.0	20.8	28.8	35.9	41.4	44.2	44.4	41.7	36.6	29.6	21.8	13.9	7.27	2.60	0.31	392	392	
		0.21	2.20	6.78	13.6	21.8	30.2	38.0	44.1	47.6	48.0	45.4	40.1	32.8	24.2	15.7	8.30	3.04	0.46	423	423	
		0.32	2.56	7.55	14.8	23.5	32.6	40.4	46.5	49.8	50.0	47.0	41.1	33.2	24.4	15.7	8.19	2.91	0.38	442	442	
		0.21	2.33	7.15	14.3	22.9	31.7	40.0	46.3	49.9	50.4	47.6	42.0	34.3	25.4	16.4	8.71	3.19	0.49	444	444	
		0.32	2.54	7.44	14.6	23.1	31.9	39.5	45.4	48.7	48.8	45.8	40.1	32.4	23.7	15.2	7.92	2.81	0.36	431	431	
	-30	0.20	2.13	6.49	13.0	20.8	28.8	36.3	42.0	45.4	45.8	43.2	38.1	31.2	23.0	14.8	7.83	2.86	0.43	403	403	
	-40	0.27	2.14	6.22	12.2	19.4	26.8	33.4	38.2	40.9	41.0	38.4	33.6	27.0	19.8	12.6	6.52	2.30	0.29	362	362	
	-50	0.16	1.63	4.90	9.81	15.8	22.0	27.7	32.2	34.8	35.1	33.1	29.1	23.6	17.3	11.1	5.81	2.12	0.33	307	307	
	-60	0.18	1.48	4.14	8.11	12.9	17.9	22.4	25.8	27.6	27.6	25.9	22.5	18.0	13.0	8.23	4.23	1.50	0.16	242	242	
	-70	0.10	0.93	2.73	5.36	8.59	12.0	15.2	17.6	19.1	19.2	18.1	15.8	12.7	9.25	5.89	3.07	1.15	0.16	167	167	
	-80	0.08	0.62	1.70	3.20	4.98	6.84	8.52	9.80	10.4	10.4	9.74	8.43	6.73	4.86	3.09	1.61	0.55	0.05	91.8	91.8	
	-90	0.02	0.16	0.47	0.87	1.31	1.72	2.07	2.33	2.47	2.47	2.32	2.05	1.68	1.26	0.81	0.42	0.13	0.01	22.6	22.6	
		-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)				20	30	40	50	60	70	80	90	
Φ t		2.78	26.5	79.6	158	252	350	439	507	545	548	516	453	367	270	173	90.6	32.7	4.40	4843		
Φ a		2.78	26.5	79.6	158	252	350	439	507	545	548	516	453	367	270	173	90.6	32.7	4.40		4843	

Test System: HOPOO HPG1900  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2015-09-06

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

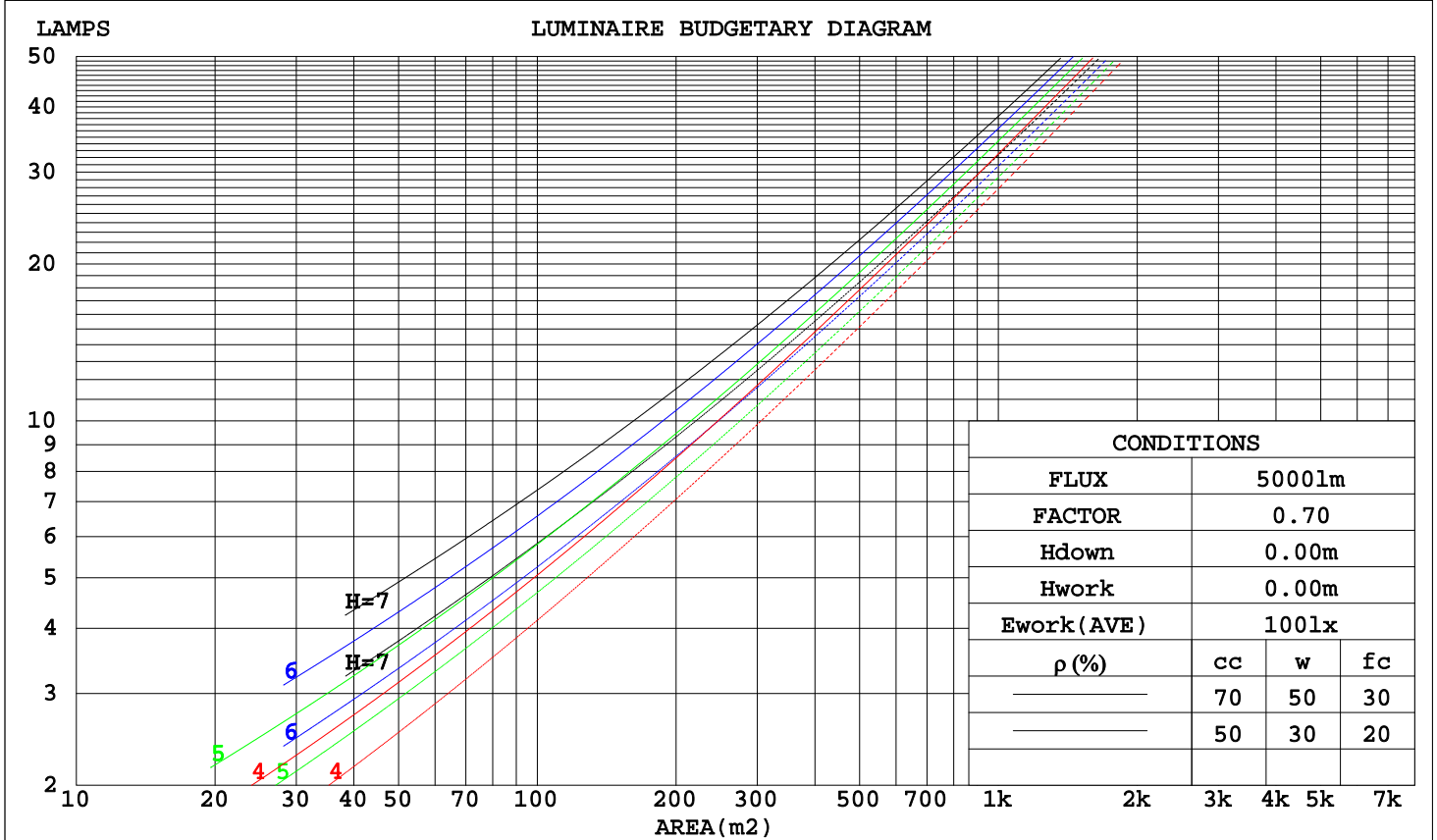
HONGPU GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER:				Address:			
NAME: FPL-105-UL24-52W				TYPE: Panel Light		WEIGHT:	
SPECIFICATION: 6041204				DIMENSION:		SERIAL No.:	

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
RCR	RCR: Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.10	1.10	1.10	1.06	1.06	1.06	1.01	1.01	1.01	.99
1.0	1.03	.99	.95	1.01	.97	.93	.96	.93	.90	.92	.90	.87	.89	.86	.84	.82
2.0	.90	.83	.77	.88	.81	.76	.84	.79	.74	.81	.76	.72	.77	.74	.70	.68
3.0	.79	.70	.64	.77	.69	.63	.74	.67	.62	.71	.65	.61	.68	.64	.59	.57
4.0	.70	.61	.54	.68	.60	.53	.66	.58	.53	.63	.57	.52	.61	.55	.51	.49
5.0	.62	.53	.46	.61	.52	.46	.59	.51	.45	.57	.50	.45	.55	.49	.44	.42
6.0	.56	.47	.40	.55	.46	.40	.53	.45	.40	.51	.44	.39	.49	.43	.39	.37
7.0	.51	.42	.36	.50	.41	.35	.48	.41	.35	.47	.40	.35	.45	.39	.34	.32
8.0	.46	.38	.32	.45	.37	.32	.44	.37	.31	.43	.36	.31	.41	.35	.31	.29
9.0	.42	.34	.28	.42	.34	.28	.40	.33	.28	.39	.33	.28	.38	.32	.28	.26
10.0	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.25	.35	.29	.25	.23



Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2015-09-06

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

HONGPU GONIOPHOTOMETERS SYSTEM TEST REPORT

WEC AND CCEC

Report number:

MANUFACTURER:				Address:			
NAME: FPL-105-UL24-52W				TYPE: Panel Light		WEIGHT:	
SPECIFICATION: 6041204				DIMENSION:		SERIAL No.:	

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.315	.179	.057	.308	.176	.056	.294	.169	.054	.281	.162	.052	.269	.156	.050	
2.0	.295	.162	.050	.288	.159	.049	.276	.154	.048	.265	.148	.046	.254	.144	.045	
3.0	.272	.145	.043	.266	.143	.043	.255	.138	.042	.245	.134	.041	.236	.131	.040	
4.0	.251	.130	.038	.246	.129	.038	.236	.125	.037	.227	.122	.037	.218	.119	.036	
5.0	.232	.118	.034	.227	.117	.034	.218	.114	.033	.210	.111	.033	.203	.108	.033	
6.0	.215	.108	.031	.210	.106	.031	.203	.104	.030	.196	.102	.030	.189	.099	.030	
7.0	.200	.099	.028	.196	.098	.028	.189	.096	.028	.182	.094	.027	.176	.092	.027	
8.0	.186	.091	.026	.183	.090	.025	.177	.088	.025	.171	.087	.025	.165	.085	.025	
9.0	.174	.084	.024	.172	.084	.023	.166	.082	.023	.161	.081	.023	.156	.079	.023	
10.0	.164	.079	.022	.161	.078	.022	.156	.077	.022	.151	.075	.021	.147	.074	.021	

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0																
1.0	.199	.199	.199	.170	.170	.170	.116	.116	.116	.067	.067	.067	.021	.021	.021	
2.0	.182	.141	.107	.156	.121	.092	.107	.084	.064	.061	.049	.038	.020	.016	.012	
3.0	.174	.123	.083	.149	.106	.072	.102	.074	.050	.059	.043	.030	.019	.014	.010	
4.0	.166	.110	.067	.143	.095	.058	.098	.066	.041	.057	.039	.024	.018	.013	.008	
5.0	.159	.100	.056	.136	.086	.049	.094	.060	.034	.054	.035	.020	.018	.012	.007	
6.0	.152	.091	.048	.130	.079	.042	.090	.055	.030	.052	.033	.018	.017	.011	.006	
7.0	.145	.084	.042	.125	.073	.037	.086	.051	.026	.050	.030	.016	.016	.010	.005	
8.0	.138	.079	.038	.119	.068	.033	.082	.048	.023	.048	.028	.014	.016	.009	.005	
9.0	.132	.074	.034	.114	.064	.030	.079	.045	.021	.046	.027	.013	.015	.009	.004	
10.0	.127	.069	.032	.109	.060	.028	.076	.042	.020	.044	.025	.012	.014	.008	.004	

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2015-09-06

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



HONGPU GONIOPHOTOMETERS SYSTEM TEST REPORT

Uncorrected UGR Table

Report number:

MANUFACTURER:		Address:		
NAME: FPL-105-UL24-52W		TYPE: Panel Light		WEIGHT:
SPECIFICATION: 6041204		DIMENSION:		SERIAL No.:

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	15.7	17.2	16.0	17.4	17.7	15.6	17.1	15.9	17.4	17.6
3H	17.3	18.7	17.6	18.9	19.2	17.2	18.6	17.5	18.9	19.1
4H	18.0	19.3	18.3	19.6	19.9	17.8	19.2	18.2	19.5	19.7
6H	18.5	19.7	18.8	20.0	20.3	18.3	19.6	18.7	19.9	20.2
8H	18.7	19.9	19.0	20.2	20.5	18.5	19.7	18.8	20.0	20.3
12H	18.9	20.0	19.2	20.3	20.7	18.6	19.8	19.0	20.1	20.4
4H 2H	16.3	17.6	16.6	17.9	18.2	16.3	17.6	16.6	17.9	18.2
3H	18.1	19.3	18.5	19.6	19.9	18.0	19.2	18.4	19.5	19.8
4H	18.9	20.0	19.3	20.3	20.7	18.8	19.9	19.2	20.2	20.6
6H	19.5	20.5	20.0	20.9	21.3	19.4	20.3	19.8	20.7	21.1
8H	19.8	20.7	20.2	21.1	21.5	19.6	20.5	20.1	20.9	21.3
12H	20.0	20.8	20.4	21.2	21.7	19.8	20.6	20.3	21.0	21.5
8H 4H	19.2	20.1	19.6	20.4	20.9	19.1	20.0	19.5	20.4	20.8
6H	20.0	20.7	20.4	21.1	21.6	19.8	20.6	20.3	21.0	21.5
8H	20.3	21.0	20.8	21.4	21.9	20.2	20.8	20.6	21.3	21.7
12H	20.6	21.2	21.1	21.6	22.1	20.5	21.0	20.9	21.5	22.0
12H 4H	19.2	20.0	19.6	20.4	20.8	19.1	19.9	19.6	20.3	20.8
6H	20.0	20.7	20.5	21.1	21.6	19.9	20.6	20.4	21.0	21.5
8H	20.4	21.0	20.9	21.5	22.0	20.3	20.8	20.8	21.3	21.8
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 4843 lm Total Lamp Luminous Flux. (8log(F/F0) = 5.5)

Test System: HOPOO HPG1900  
 Temperature: 25.3 DEG  
 Operators:  
 Test Date: 2015-09-06

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

HONGPU GONIOPHOTOMETERS SYSTEM TEST REPORT

UTILIZATION FACTORS TABLE

Report number:

MANUFACTURER:	Address:	
NAME: FPL-105-UL24-52W	TYPE: Panel Light	WEIGHT:
SPECIFICATION: 6041204	DIMENSION:	SERIAL No.:

REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	57	45	38	56	45	38	55	44	38	31
0.80	67	55	48	66	55	47	64	54	47	40
1.00	75	64	57	74	63	56	72	65	56	48
1.25	82	72	64	81	71	64	78	69	63	56
1.50	87	77	70	86	76	70	82	74	68	61
2.00	94	86	79	92	84	78	89	82	76	68
2.50	98	90	84	96	89	83	92	86	81	72
3.00	102	95	89	99	93	88	95	90	85	77
4.00	106	100	95	103	98	94	99	94	91	81
5.00	108	103	99	106	101	97	101	97	94	84
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

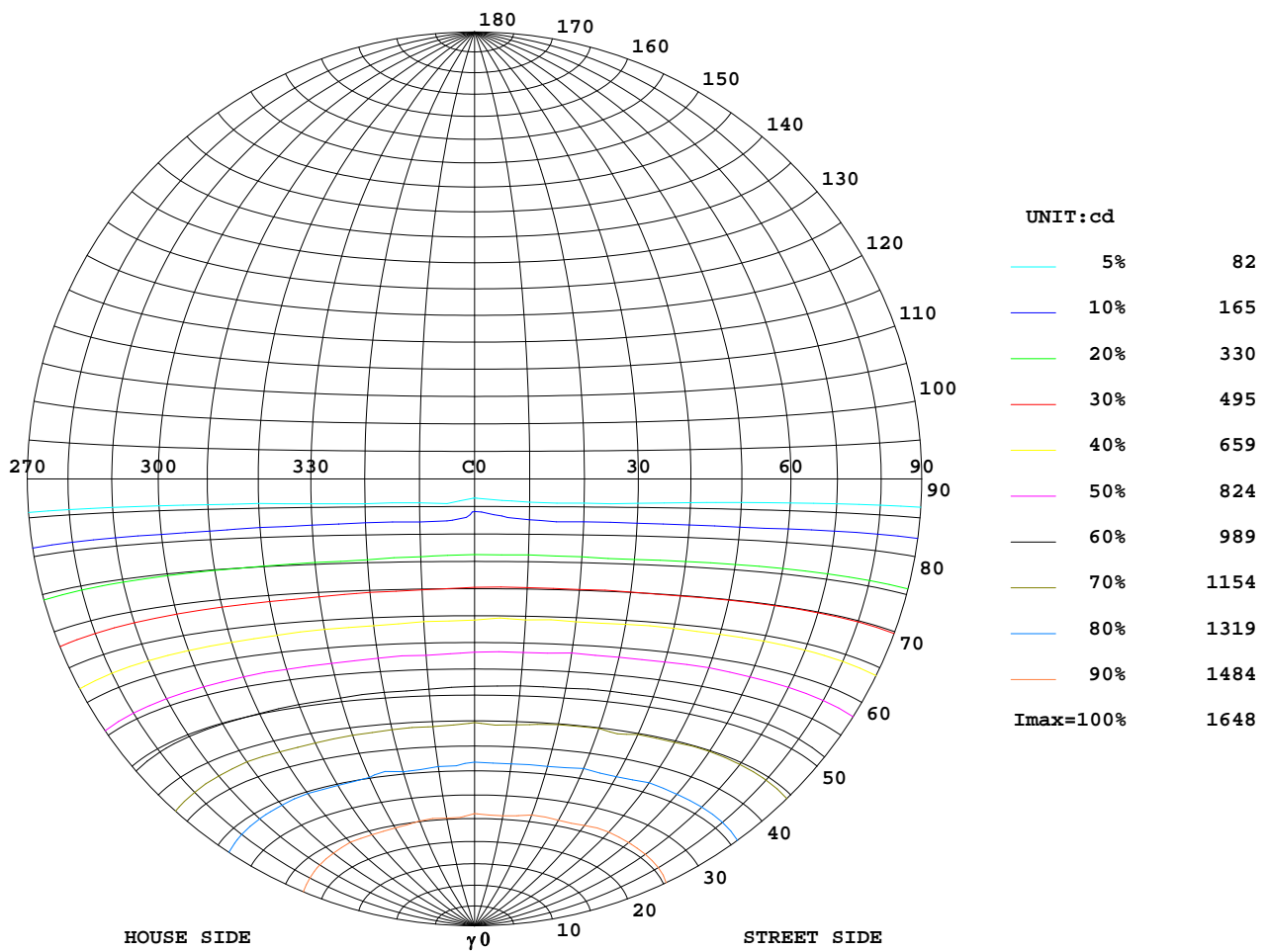
Test System: HOPOO HPG1900  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2015-09-06

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

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:	Address:	
NAME: FPL-105-UL24-52W	TYPE: Panel Light	WEIGHT:
SPECIFICATION: 6041204	DIMENSION:	SERIAL No.:



Test System: HOPOO HPG1900  
 Temperature: 25.3 DEG  
 Operators:  
 Test Date: 2015-09-06

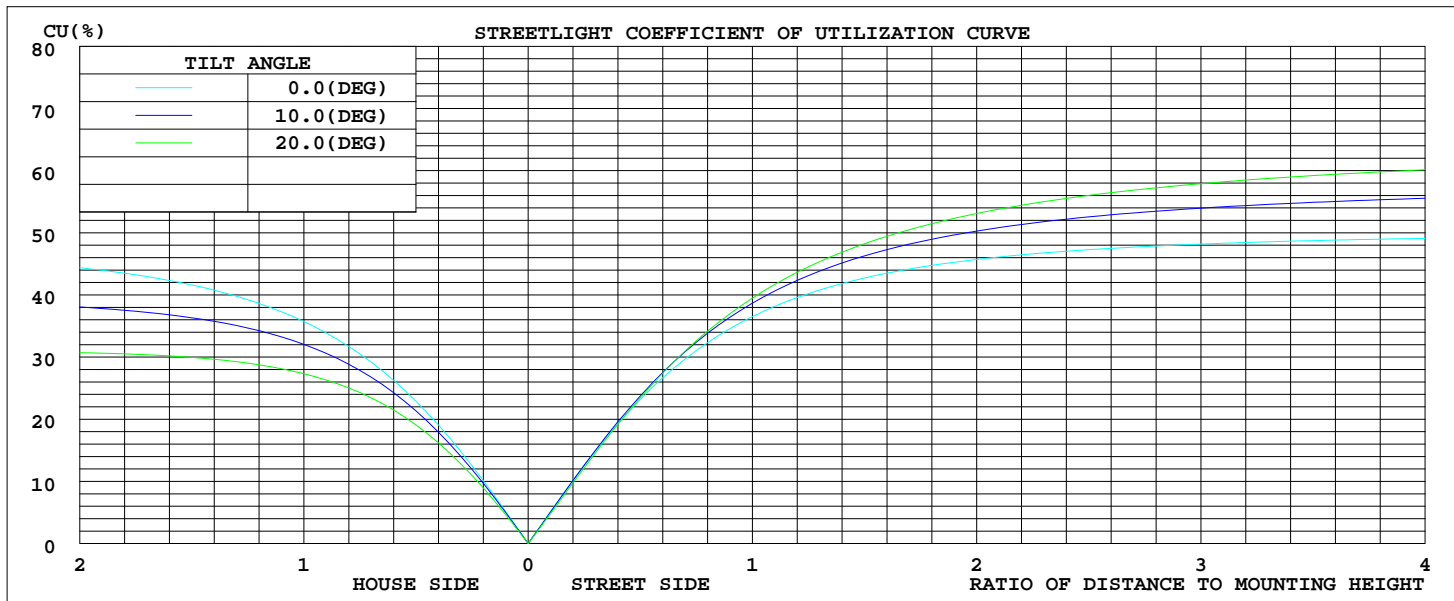
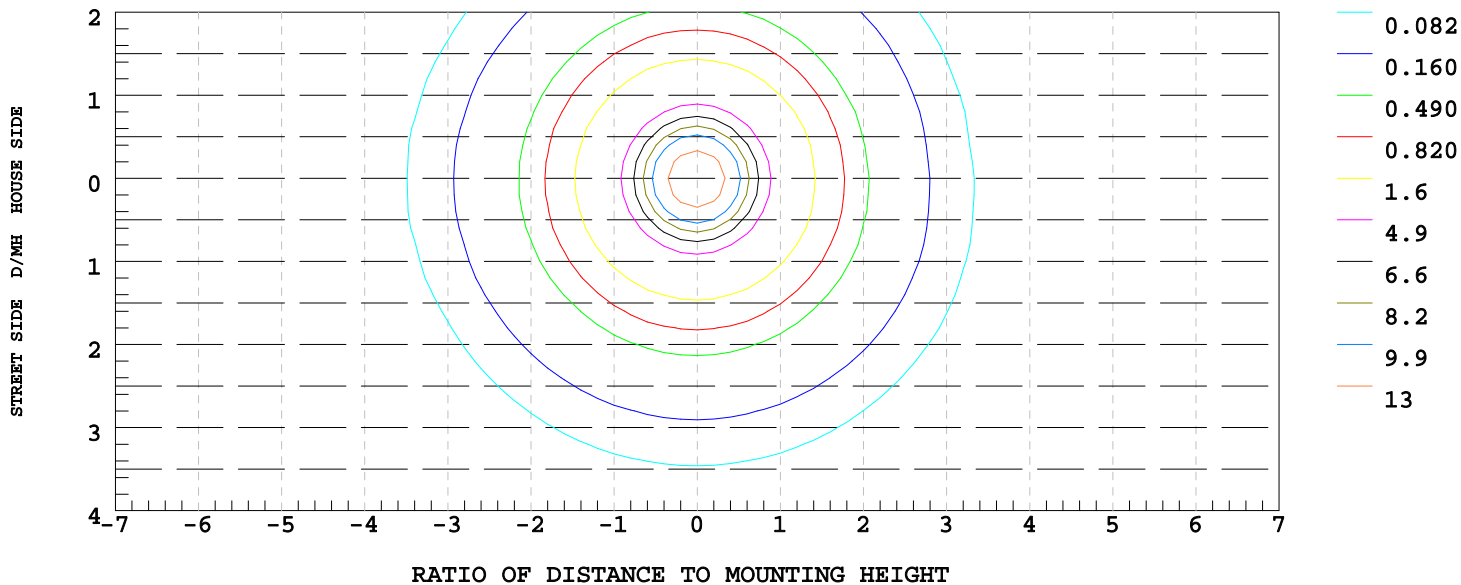
Test Set: 7.0deg/s B-Beta (TYPE B)  
 Humidity: 65.0%  
 Test Distance: 7.000 m  
 Remarks:

ISOLUX DIAGRAM

Report number:

MANUFACTURER:	Address:	
NAME: FPL-105-UL24-52W	TYPE: Panel Light	WEIGHT:
SPECIFICATION: 6041204	DIMENSION:	SERIAL No.:

ILLUMINANCE AT MH=10 m, Enadir = 16.47 lx



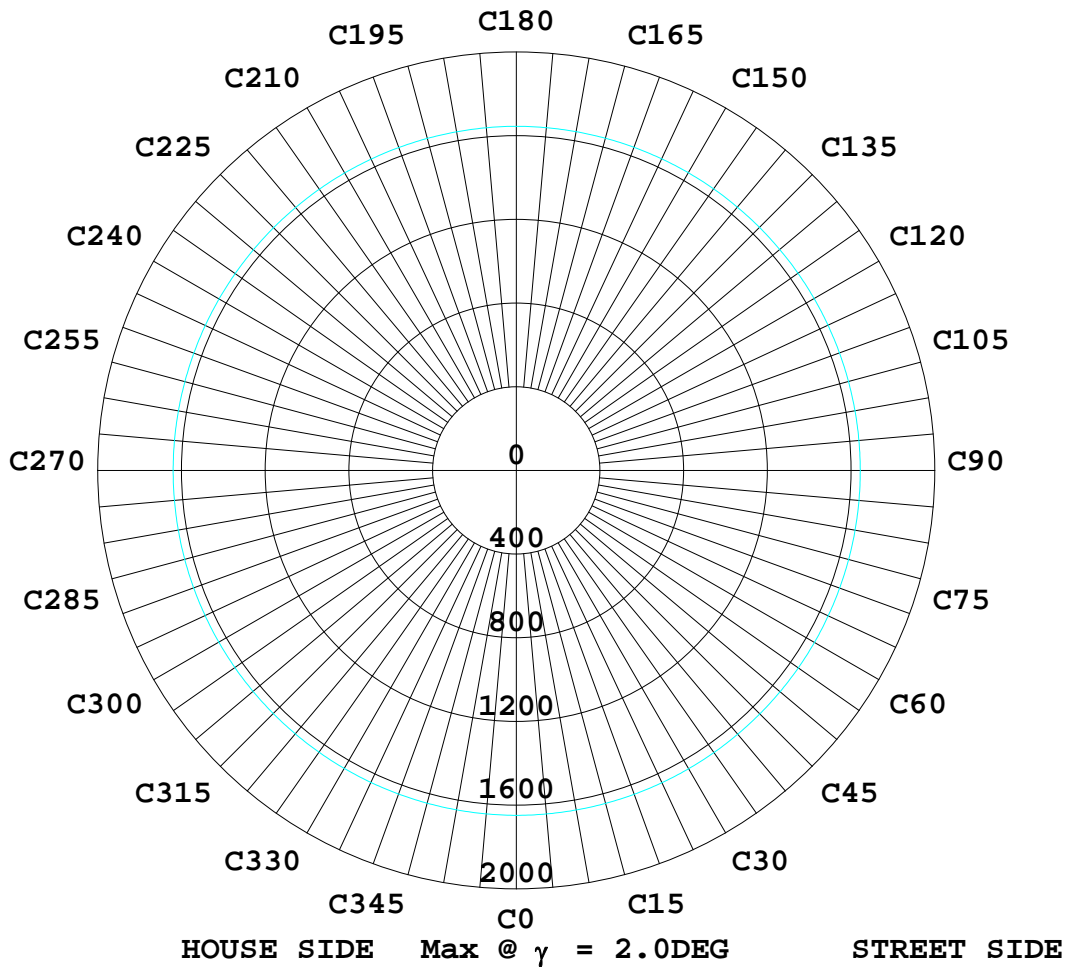
Test System: HOPOO HPG1900  
 Temperature: 25.3 DEG  
 Operators:  
 Test Date: 2015-09-06

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

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:	Address:	
NAME: FPL-105-UL24-52W	TYPE: Panel Light	WEIGHT:
SPECIFICATION: 6041204	DIMENSION:	SERIAL No.:



Test System: HOPOO HPG1900  
 Temperature: 25.3 DEG  
 Operators:  
 Test Date: 2015-09-06

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

HONGPU GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

<b>MANUFACTURER:</b>	<b>Address:</b>	
<b>NAME: FPL-105-UL24-52W</b>	<b>TYPE: Panel Light</b>	<b>WEIGHT:</b>
<b>SPECIFICATION: 6041204</b>	<b>DIMENSION:</b>	<b>SERIAL No.:</b>

UNIT: cd

C (DEG) \ γ (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70
0.0	1647	1647	1647	1647	1647	1647	1647	1647	1647	1647	1647	1647	1647	1647	1647
5.0	1646	1645	1645	1644	1643	1642	1642	1641	1641	1641	1640	1640	1640	1640	1640
10.0	1629	1627	1626	1626	1626	1626	1626	1626	1627	1627	1627	1628	1628	1629	1629
15.0	1599	1597	1595	1595	1595	1597	1599	1602	1604	1602	1600	1598	1597	1595	1595
20.0	1556	1553	1552	1552	1554	1557	1560	1557	1555	1554	1554	1554	1554	1555	1555
25.0	1496	1494	1494	1497	1502	1502	1499	1498	1498	1500	1502	1501	1498	1496	1494
30.0	1428	1424	1425	1429	1430	1427	1428	1431	1432	1429	1428	1427	1427	1428	1427
35.0	1344	1341	1343	1351	1347	1349	1351	1348	1346	1347	1348	1351	1348	1346	1344
40.0	1253	1249	1251	1252	1252	1258	1255	1254	1255	1256	1254	1252	1252	1251	1252
45.0	1146	1140	1133	1146	1150	1150	1151	1142	1149	1148	1148	1151	1150	1148	1146
50.0	1033	1032	1035	1034	1034	1037	1040	1035	1033	1036	1035	1032	1032	1032	1032
55.0	905	910	910	911	911	913	909	910	909	908	910	911	910	907	905
60.0	777	781	777	777	784	777	777	776	778	778	776	773	772	771	771
65.0	639	648	639	645	638	637	639	640	637	634	633	633	633	632	632
70.0	501	504	502	500	498	500	496	493	491	492	492	492	491	491	491
75.0	363	363	365	359	361	354	352	353	353	354	353	353	353	353	352
80.0	236	235	228	225	221	222	222	221	220	220	219	218	217	215	214
85.0	115	107	100	97.0	98.6	96.8	95.5	97.9	101	103	104	106	107	108	109
90.0	11.7	4.16	4.11	4.11	4.11	4.11	4.11	4.16	4.22	4.62	5.13	5.76	6.28	6.79	7.25
95.0	1.77	3.77	4.58	4.86	5.01	5.04	5.07	5.01	4.93	5.03	5.22	5.49	5.72	5.98	6.25
100.0	2.68	3.74	4.38	4.75	5.05	5.24	5.32	5.39	5.41	5.46	5.48	5.46	5.45	5.44	5.44
105.0	4.05	4.26	4.49	5.02	5.31	5.52	5.70	5.80	5.87	5.93	5.99	6.01	6.01	6.03	6.04
110.0	4.56	4.87	5.10	5.48	5.65	5.89	6.03	6.24	6.31	6.47	6.56	6.58	6.62	6.63	6.66
115.0	5.93	6.00	6.04	6.16	6.23	6.42	6.64	6.80	6.97	7.01	7.05	7.10	7.19	7.23	7.32
120.0	6.91	6.71	6.69	6.99	6.83	7.14	7.24	7.37	7.56	7.63	7.73	7.75	7.88	7.80	7.95
125.0	7.88	7.63	7.48	7.76	7.81	7.93	7.94	8.18	8.24	8.14	8.27	8.44	8.36	8.49	8.68
130.0	9.25	8.94	8.66	8.74	8.49	8.84	8.85	8.90	8.88	8.95	8.96	9.17	9.06	9.13	9.35
135.0	10.2	10.0	9.94	9.68	9.73	9.53	9.59	9.41	9.63	9.65	9.68	9.56	9.67	9.90	9.98
140.0	11.1	10.9	10.8	10.6	10.6	10.3	10.4	10.2	10.3	10.3	10.3	10.3	10.4	10.7	10.6
145.0	11.7	11.5	11.6	11.6	11.3	11.1	11.2	11.2	11.3	10.9	10.9	11.0	11.3	11.3	11.4
150.0	13.0	12.7	12.5	12.3	12.3	12.1	12.2	11.7	11.8	11.7	11.8	12.0	12.0	12.1	12.1
155.0	13.9	13.7	13.3	12.9	12.9	12.8	12.6	12.7	12.6	12.7	12.9	12.7	12.9	12.8	12.9
160.0	14.5	14.2	14.0	13.8	13.8	13.8	13.7	13.8	13.7	13.6	13.5	13.6	13.5	13.7	13.7
165.0	15.4	15.2	15.0	14.9	14.7	14.6	14.4	14.6	14.5	14.4	14.3	14.4	14.5	14.4	14.3
170.0	15.8	15.7	15.6	15.5	15.4	15.3	15.3	15.4	15.4	15.3	15.2	15.2	15.1	15.0	15.2
175.0	16.3	16.2	16.2	16.1	16.0	16.0	15.9	15.9	15.9	16.0	16.1	16.2	16.1	16.1	16.1
180.0	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2015-09-06

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

**HONGPU GONIOPHOTOMETERS SYSTEM TEST REPORT**

**LUMINOUS DISTRIBUTION INTENSITY DATA**

Report number:

<b>MANUFACTURER:</b>	<b>Address:</b>	
<b>NAME: FPL-105-UL24-52W</b>	<b>TYPE: Panel Light</b>	<b>WEIGHT:</b>
<b>SPECIFICATION: 6041204</b>	<b>DIMENSION:</b>	<b>SERIAL No.:</b>

UNIT: cd

C (DEG) \ γ (DEG)	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145
0.0	1647	1647	1647	1647	1647	1647	1647	1647	1647	1647	1647	1647	1647	1647	1647
5.0	1639	1639	1638	1638	1637	1637	1637	1636	1636	1635	1635	1634	1634	1633	1633
10.0	1630	1630	1629	1628	1627	1626	1624	1622	1620	1618	1616	1614	1612	1611	1609
15.0	1594	1593	1592	1590	1589	1587	1586	1585	1583	1582	1581	1580	1580	1580	1576
20.0	1555	1555	1554	1553	1550	1548	1546	1543	1540	1536	1532	1529	1527	1525	1525
25.0	1493	1492	1490	1488	1486	1484	1482	1480	1478	1476	1476	1474	1469	1464	1460
30.0	1427	1426	1426	1424	1421	1418	1415	1411	1406	1402	1399	1398	1395	1394	1387
35.0	1342	1340	1339	1337	1334	1331	1329	1326	1323	1322	1326	1316	1309	1305	1303
40.0	1252	1251	1251	1249	1246	1243	1239	1234	1230	1227	1223	1220	1219	1211	1205
45.0	1144	1142	1140	1139	1136	1134	1131	1128	1126	1125	1120	1114	1109	1105	1104
50.0	1032	1031	1030	1028	1026	1023	1019	1015	1010	1006	1003	1000	1000	991	986
55.0	903	902	900	898	896	894	892	890	887	885	883	877	871	869	867
60.0	770	770	769	768	766	765	761	759	756	752	749	746	745	738	733
65.0	631	630	629	628	627	625	623	622	620	618	618	613	609	605	602
70.0	490	489	488	488	487	486	484	483	481	480	479	477	475	473	469
75.0	351	351	351	350	350	349	349	348	347	346	344	343	340	339	338
80.0	214	213	213	213	213	213	214	215	215	216	217	217	217	216	214
85.0	109	110	110	110	110	111	110	110	109	109	108	107	106	105	101
90.0	7.53	7.76	7.88	8.05	8.39	8.68	8.85	9.02	9.19	9.19	9.25	9.08	8.73	8.39	8.05
95.0	6.41	6.55	6.61	6.71	6.87	6.99	7.01	7.02	7.01	6.85	6.71	6.44	6.08	5.70	5.24
100.0	5.41	5.38	5.37	5.36	5.37	5.38	5.36	5.36	5.39	5.38	5.42	5.47	5.51	5.61	5.74
105.0	6.05	6.05	6.06	6.08	6.09	6.10	6.12	6.14	6.17	6.22	6.29	6.35	6.44	6.59	6.80
110.0	6.70	6.71	6.74	6.79	6.80	6.83	6.89	6.92	6.99	7.02	7.13	7.26	7.32	7.53	7.81
115.0	7.34	7.38	7.43	7.50	7.52	7.58	7.65	7.73	7.81	7.91	7.94	8.12	8.24	8.52	8.74
120.0	7.99	8.08	8.12	8.22	8.23	8.35	8.40	8.51	8.59	8.68	8.74	8.99	9.12	9.29	9.59
125.0	8.73	8.82	8.80	8.93	8.95	9.13	9.16	9.27	9.36	9.38	9.55	9.76	10.0	10.2	10.3
130.0	9.43	9.53	9.52	9.65	9.66	9.88	9.91	10.0	10.0	10.3	10.4	10.5	10.8	11.1	11.3
135.0	10.0	10.2	10.2	10.3	10.3	10.6	10.5	10.7	10.9	11.0	11.0	11.5	11.5	11.8	12.2
140.0	10.7	10.9	11.0	11.0	11.0	11.3	11.2	11.5	11.6	11.6	12.0	12.0	12.5	12.5	12.8
145.0	11.5	11.5	11.8	11.7	11.8	12.0	12.1	12.2	12.3	12.5	12.5	12.9	12.9	13.4	13.4
150.0	12.3	12.2	12.5	12.5	12.5	12.5	12.9	12.7	13.0	13.2	13.4	13.4	13.8	14.1	14.0
155.0	13.0	12.9	13.2	13.2	13.2	13.2	13.6	13.7	13.5	13.9	14.0	14.2	14.4	14.3	14.9
160.0	13.6	13.8	13.9	13.9	13.9	13.9	14.0	14.4	14.5	14.3	14.7	14.8	15.0	15.2	15.4
165.0	14.4	14.6	14.6	14.6	14.6	14.6	14.7	14.8	15.2	15.3	15.3	15.2	15.4	15.7	15.8
170.0	15.4	15.3	15.3	15.3	15.3	15.3	15.4	15.4	15.4	15.5	15.9	16.1	16.1	16.2	16.3
175.0	16.1	16.0	16.0	16.0	16.0	16.0	16.1	16.1	16.1	16.1	16.2	16.2	16.2	16.3	16.3
180.0	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2015-09-06

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

**HONGPU GONIOPHOTOMETERS SYSTEM TEST REPORT**

**LUMINOUS DISTRIBUTION INTENSITY DATA**

Report number:

<b>MANUFACTURER:</b>	<b>Address:</b>	
<b>NAME: FPL-105-UL24-52W</b>	<b>TYPE: Panel Light</b>	<b>WEIGHT:</b>
<b>SPECIFICATION: 6041204</b>	<b>DIMENSION:</b>	<b>SERIAL No.:</b>

UNIT: cd

C (DEG) \ γ (DEG)	150	155	160	165	170	175	180	185	190	195	200	205	210	215	220
0.0	1647	1647	1647	1647	1647	1647	1647	1647	1647	1647	1647	1647	1647	1647	1647
5.0	1633	1633	1633	1634	1634	1635	1636	1634	1633	1632	1630	1630	1629	1628	1628
10.0	1608	1607	1606	1606	1607	1608	1609	1606	1603	1601	1600	1599	1599	1599	1599
15.0	1572	1569	1567	1566	1566	1567	1569	1565	1561	1559	1558	1558	1559	1560	1562
20.0	1526	1522	1516	1513	1512	1513	1516	1510	1506	1503	1504	1507	1508	1505	1503
25.0	1457	1457	1455	1449	1446	1446	1449	1442	1438	1437	1439	1438	1435	1435	1435
30.0	1382	1379	1379	1374	1369	1368	1371	1364	1360	1360	1361	1357	1357	1358	1363
35.0	1300	1296	1295	1291	1283	1279	1280	1273	1272	1274	1269	1272	1271	1270	1270
40.0	1200	1198	1190	1188	1186	1179	1181	1172	1173	1173	1166	1158	1168	1169	1172
45.0	1091	1092	1090	1080	1078	1071	1073	1064	1064	1060	1064	1061	1061	1065	1064
50.0	981	974	971	965	960	955	957	947	944	943	943	941	943	946	949
55.0	857	853	846	847	833	827	828	818	816	823	816	819	819	826	825
60.0	732	723	716	710	705	698	698	688	687	686	685	689	694	690	690
65.0	596	592	585	575	577	561	566	550	558	552	555	557	555	557	559
70.0	463	458	454	446	437	429	428	418	417	421	424	421	424	429	431
75.0	336	331	324	319	308	305	299	293	288	294	292	299	301	301	300
80.0	211	209	207	201	194	182	177	174	179	175	180	179	179	181	184
85.0	101	99.9	98.6	92.7	88.6	79.3	68.0	49.2	59.1	65.7	73.4	76.6	77.2	81.0	84.1
90.0	7.70	7.53	7.25	6.68	6.33	5.88	7.70	4.62	4.68	4.68	4.56	4.68	4.85	5.02	5.13
95.0	4.76	4.86	5.11	5.65	6.74	9.54	13.1	8.23	6.38	5.37	4.96	4.85	5.10	5.35	5.49
100.0	5.92	6.25	6.82	7.69	9.29	11.8	12.9	10.1	7.66	6.48	6.04	5.71	6.08	6.13	6.17
105.0	7.08	7.43	8.15	9.10	10.6	12.6	11.4	9.70	8.18	7.83	6.80	6.79	7.10	6.98	7.03
110.0	8.17	8.52	9.30	10.2	11.6	12.9	11.0	10.3	9.23	8.06	7.69	8.15	7.87	7.79	7.77
115.0	9.15	9.71	10.1	10.8	12.1	13.1	10.6	9.70	8.92	9.06	9.42	8.99	8.79	8.91	8.46
120.0	10.0	10.5	11.1	11.8	12.5	13.7	12.8	12.0	11.3	10.8	10.0	9.86	9.93	9.47	9.19
125.0	10.8	11.3	11.8	12.5	13.1	14.2	13.1	12.3	11.6	11.3	10.9	11.1	10.4	10.0	10.2
130.0	11.6	12.2	12.5	13.2	13.8	14.6	13.3	13.0	13.0	12.6	11.9	11.4	11.1	11.2	11.5
135.0	12.4	12.8	13.1	13.9	14.5	14.9	14.3	13.7	13.2	12.4	12.4	12.2	12.8	12.5	12.2
140.0	13.3	13.7	14.1	14.3	14.8	15.4	14.8	14.4	14.1	14.3	14.4	13.9	13.8	13.2	13.2
145.0	13.8	14.2	14.6	15.0	15.5	16.0	16.6	16.2	15.9	15.5	14.8	14.6	14.4	14.0	13.7
150.0	14.5	15.0	15.0	15.4	15.7	16.1	17.1	16.7	16.5	16.2	15.6	15.2	14.8	14.5	14.2
155.0	15.1	15.4	15.6	15.6	16.0	16.3	17.1	16.8	16.5	16.2	15.8	15.5	15.3	15.0	14.5
160.0	15.6	15.8	15.8	16.0	16.4	16.8	17.1	16.8	16.5	16.1	15.8	15.5	15.3	15.1	14.6
165.0	16.0	16.2	16.4	16.6	16.7	16.9	16.3	16.1	15.9	15.8	15.6	15.4	15.3	15.1	15.0
170.0	16.4	16.5	16.5	16.5	16.5	16.6	15.8	15.7	15.7	15.6	15.6	15.6	15.4	15.2	14.9
175.0	16.4	16.4	16.5	16.6	16.6	16.7	15.0	14.9	14.9	14.8	14.8	14.7	14.7	14.6	14.6
180.0	16.7	16.7	16.7	16.7	16.7	16.7	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2015-09-06

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



**HONGPU GONIOPHOTOMETERS SYSTEM TEST REPORT**

**LUMINOUS DISTRIBUTION INTENSITY DATA**

Report number:

<b>MANUFACTURER:</b>	<b>Address:</b>	
<b>NAME: FPL-105-UL24-52W</b>	<b>TYPE: Panel Light</b>	<b>WEIGHT:</b>
<b>SPECIFICATION: 6041204</b>	<b>DIMENSION:</b>	<b>SERIAL No.:</b>

UNIT: cd

C (DEG) \ γ (DEG)	225	230	235	240	245	250	255	260	265	270	275	280	285	290	295
0.0	1647	1647	1647	1647	1647	1647	1647	1647	1647	1647	1647	1647	1647	1647	1647
5.0	1628	1627	1627	1627	1628	1628	1628	1628	1629	1629	1629	1630	1630	1631	1632
10.0	1600	1601	1602	1604	1605	1606	1607	1608	1609	1610	1611	1612	1613	1614	1614
15.0	1561	1560	1559	1560	1560	1561	1561	1563	1564	1565	1566	1568	1570	1571	1573
20.0	1503	1503	1505	1506	1509	1511	1514	1516	1518	1519	1521	1522	1524	1525	1526
25.0	1439	1442	1443	1441	1442	1443	1445	1446	1448	1450	1452	1455	1457	1460	1462
30.0	1361	1360	1363	1367	1365	1368	1372	1376	1378	1381	1383	1385	1387	1388	1389
35.0	1271	1275	1280	1282	1282	1281	1283	1286	1288	1291	1293	1296	1299	1301	1305
40.0	1178	1177	1178	1181	1185	1187	1191	1195	1198	1201	1203	1205	1206	1207	1209
45.0	1066	1070	1074	1077	1077	1078	1079	1082	1084	1087	1090	1093	1096	1099	1104
50.0	956	953	953	954	956	960	963	967	970	973	977	979	981	984	986
55.0	823	825	829	830	832	835	837	839	842	845	848	850	854	857	861
60.0	694	695	697	700	703	706	708	711	714	716	718	721	723	725	727
65.0	562	565	568	569	570	571	572	574	576	578	581	583	586	588	591
70.0	432	431	432	432	433	434	435	437	438	440	443	445	448	451	454
75.0	299	301	303	305	306	308	309	310	311	313	314	316	318	320	322
80.0	185	186	186	186	186	185	185	185	185	185	186	188	190	192	194
85.0	86.9	88.7	90.1	91.2	92.2	93.1	93.7	94.1	94.6	95.1	95.5	95.7	96.0	96.2	96.2
90.0	5.13	5.08	5.02	5.02	5.02	5.02	5.02	4.96	4.91	4.91	4.91	4.91	4.85	4.85	4.85
95.0	5.49	5.49	5.44	5.42	5.43	5.42	5.43	5.40	5.39	5.39	5.39	5.37	5.32	5.31	5.26
100.0	6.08	6.06	6.01	5.93	5.91	5.87	5.87	5.83	5.88	5.88	5.88	5.82	5.79	5.77	5.68
105.0	6.81	6.88	6.87	6.78	6.69	6.62	6.54	6.47	6.45	6.42	6.37	6.27	6.19	6.15	6.05
110.0	7.55	7.80	7.68	7.59	7.46	7.35	7.22	7.11	7.03	6.96	6.86	6.74	6.61	6.53	6.44
115.0	8.40	8.63	8.49	8.38	8.22	8.07	7.89	7.78	7.60	7.50	7.34	7.25	7.05	6.89	6.81
120.0	9.59	9.54	9.33	9.15	8.98	8.78	8.56	8.42	8.17	8.05	7.83	7.76	7.49	7.34	7.19
125.0	10.4	10.2	10.1	9.90	9.72	9.48	9.23	9.03	8.74	8.59	8.31	8.28	7.89	7.74	7.60
130.0	11.2	11.1	10.8	10.6	10.3	10.0	9.89	9.60	9.32	9.13	8.83	8.77	8.40	8.12	8.01
135.0	12.0	11.8	11.5	11.3	11.0	10.6	10.4	10.1	9.89	9.68	9.38	9.26	8.90	8.70	8.49
140.0	12.8	12.5	12.2	11.8	11.6	11.3	11.0	10.7	10.4	10.2	9.95	9.88	9.50	9.16	8.94
145.0	13.4	13.1	12.7	12.5	12.0	11.9	11.7	11.2	11.0	10.7	10.5	10.4	10.2	9.73	9.56
150.0	14.0	13.5	13.3	12.8	12.7	12.3	12.0	11.6	11.6	11.3	11.0	10.7	10.7	10.3	10.0
155.0	14.2	14.0	13.5	13.4	13.0	12.9	12.5	12.2	12.1	11.8	11.5	11.2	11.4	11.2	10.7
160.0	14.4	14.2	14.1	13.7	13.6	13.2	12.8	12.7	12.6	12.3	12.0	11.9	11.7	11.8	11.8
165.0	14.7	14.5	14.4	14.0	13.8	13.4	13.3	13.3	13.0	12.9	12.5	12.5	12.2	12.3	12.5
170.0	14.6	14.5	14.3	14.0	13.9	13.9	13.9	13.7	13.4	13.4	13.1	13.0	13.1	12.9	12.7
175.0	14.6	14.5	14.5	14.5	14.5	14.3	14.1	14.0	14.0	14.0	13.8	13.6	13.6	13.6	13.6
180.0	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2015-09-06

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

HONGPU GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

<b>MANUFACTURER:</b>	<b>Address:</b>	
<b>NAME: FPL-105-UL24-52W</b>	<b>TYPE: Panel Light</b>	<b>WEIGHT:</b>
<b>SPECIFICATION: 6041204</b>	<b>DIMENSION:</b>	<b>SERIAL No.:</b>

UNIT: cd

C (DEG) \ γ (DEG)	300	305	310	315	320	325	330	335	340	345	350	355
0.0	1647	1647	1647	1647	1647	1647	1647	1647	1647	1647	1647	1647
5.0	1632	1633	1634	1635	1636	1637	1638	1639	1640	1642	1643	1645
10.0	1614	1614	1615	1615	1616	1617	1617	1619	1620	1621	1623	1626
15.0	1576	1578	1581	1584	1587	1587	1586	1586	1587	1589	1591	1595
20.0	1526	1527	1529	1532	1535	1539	1544	1544	1543	1544	1547	1551
25.0	1465	1469	1473	1473	1474	1476	1479	1485	1488	1487	1487	1491
30.0	1391	1393	1396	1399	1404	1405	1406	1409	1416	1418	1418	1421
35.0	1309	1313	1313	1314	1316	1321	1338	1326	1330	1337	1336	1337
40.0	1211	1213	1217	1222	1225	1225	1228	1236	1235	1239	1242	1244
45.0	1108	1111	1111	1113	1110	1126	1125	1128	1132	1131	1133	1139
50.0	988	991	996	1000	1002	1006	1013	1014	1015	1019	1026	1027
55.0	865	869	870	873	877	880	884	891	893	897	900	905
60.0	730	734	738	744	746	748	753	755	766	764	768	776
65.0	594	596	600	603	608	614	616	619	623	633	630	644
70.0	456	460	463	465	468	472	478	484	486	490	495	500
75.0	324	327	329	332	335	337	339	343	352	352	361	361
80.0	197	200	203	206	208	211	214	216	217	223	226	235
85.0	96.4	96.3	96.3	97.0	94.7	93.6	92.6	95.5	99.0	97.0	92.7	94.6
90.0	4.85	4.79	4.79	4.85	4.85	4.85	4.79	4.68	4.56	4.28	4.45	4.34
95.0	5.27	5.22	5.24	5.29	5.29	5.26	5.25	5.12	4.87	4.40	4.19	3.79
100.0	5.68	5.62	5.58	5.55	5.57	5.53	5.27	5.11	4.78	4.37	3.62	2.89
105.0	6.00	5.92	5.83	5.72	5.78	5.77	5.64	5.00	4.80	4.35	3.97	3.43
110.0	6.32	6.24	6.17	5.97	5.93	6.02	5.93	5.36	4.98	4.62	4.25	3.80
115.0	6.69	6.57	6.50	6.28	5.93	6.25	6.27	6.17	5.40	4.69	4.84	4.53
120.0	7.07	7.03	6.80	6.69	6.39	6.12	6.54	6.56	6.46	6.34	5.42	4.99
125.0	7.49	7.33	7.12	7.18	6.79	6.61	6.29	6.82	6.86	6.97	6.87	6.99
130.0	7.92	7.69	7.74	7.55	7.44	7.08	6.88	6.40	6.81	7.22	7.37	7.54
135.0	8.39	8.22	8.08	8.15	7.92	7.94	7.69	7.43	7.22	6.94	6.68	6.76
140.0	8.78	8.66	8.70	8.46	8.54	8.14	8.21	8.37	8.34	8.04	7.93	8.08
145.0	9.38	9.19	9.07	9.04	8.83	8.91	9.06	8.74	8.83	8.86	9.01	9.35
150.0	9.89	9.82	9.61	9.67	9.60	9.58	9.53	9.43	9.52	9.68	9.83	10.0
155.0	10.4	10.4	10.2	10.2	10.1	10.1	10.1	10.2	10.3	10.2	10.6	10.8
160.0	11.2	11.1	10.9	11.0	10.7	10.8	10.8	10.6	10.7	10.8	10.9	11.0
165.0	12.3	12.3	11.9	11.7	11.6	11.5	11.6	11.6	11.7	11.6	11.6	11.6
170.0	12.8	13.1	13.0	12.9	12.9	13.0	13.0	13.0	12.8	12.7	12.6	12.6
175.0	13.6	13.6	13.6	13.5	13.4	13.3	13.4	13.4	13.4	13.5	13.5	13.6
180.0	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2015-09-06

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