

LUMINAIRE PHOTOMETRIC TEST REPORT

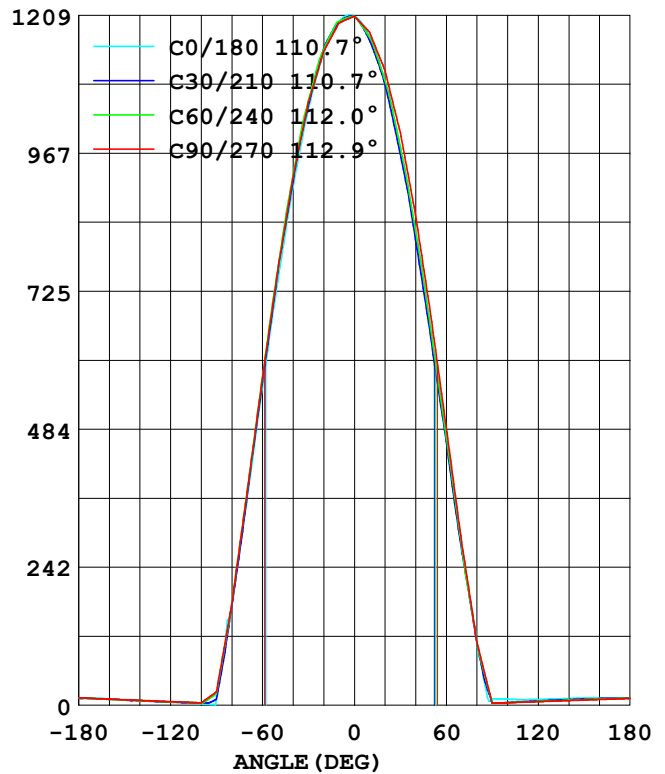
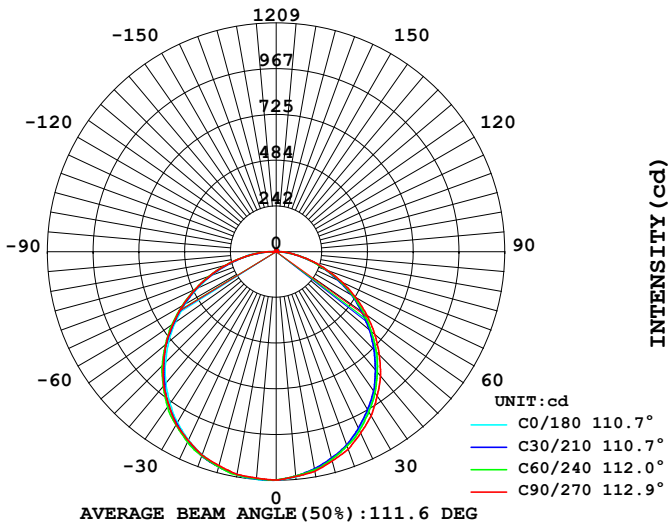
Report number:

MANUFACTURER:		Address:	
NAME:		TYPE:	WEIGHT:
SPECIFICATION:		DIMENSION:	SERIAL No.:

DATA OF LAMP		Imax (cd)	1209	S/MH (C0/180)	1.28
MODEL		EFFICIENCY (%)	100.0	S/MH (C90/270)	1.29
NOMINAL POWER (W)	36	TOTAL FLUX (lm)	3457.7	Voltage (V)	230.5
RATED VOLTAGE (V)	230	EFFICIENCY (lm/W)	96.2	Current (A)	0.189
NOMINAL FLUX (lm)	3457.7	$\eta$ up (%)	1.3	Power (W)	35.95
LAMPS QUANTITY	1	$\eta$ down (%)	98.7	Power Factor (PF)	0.969
TEST VOLTAGE (V)	230.5	Effective Flux (lm)	0.0	EET	0.000

LUMINOUS INTENSITY DISTRIBUTION

LUMINOUS INTENSITY DISTRIBUTION



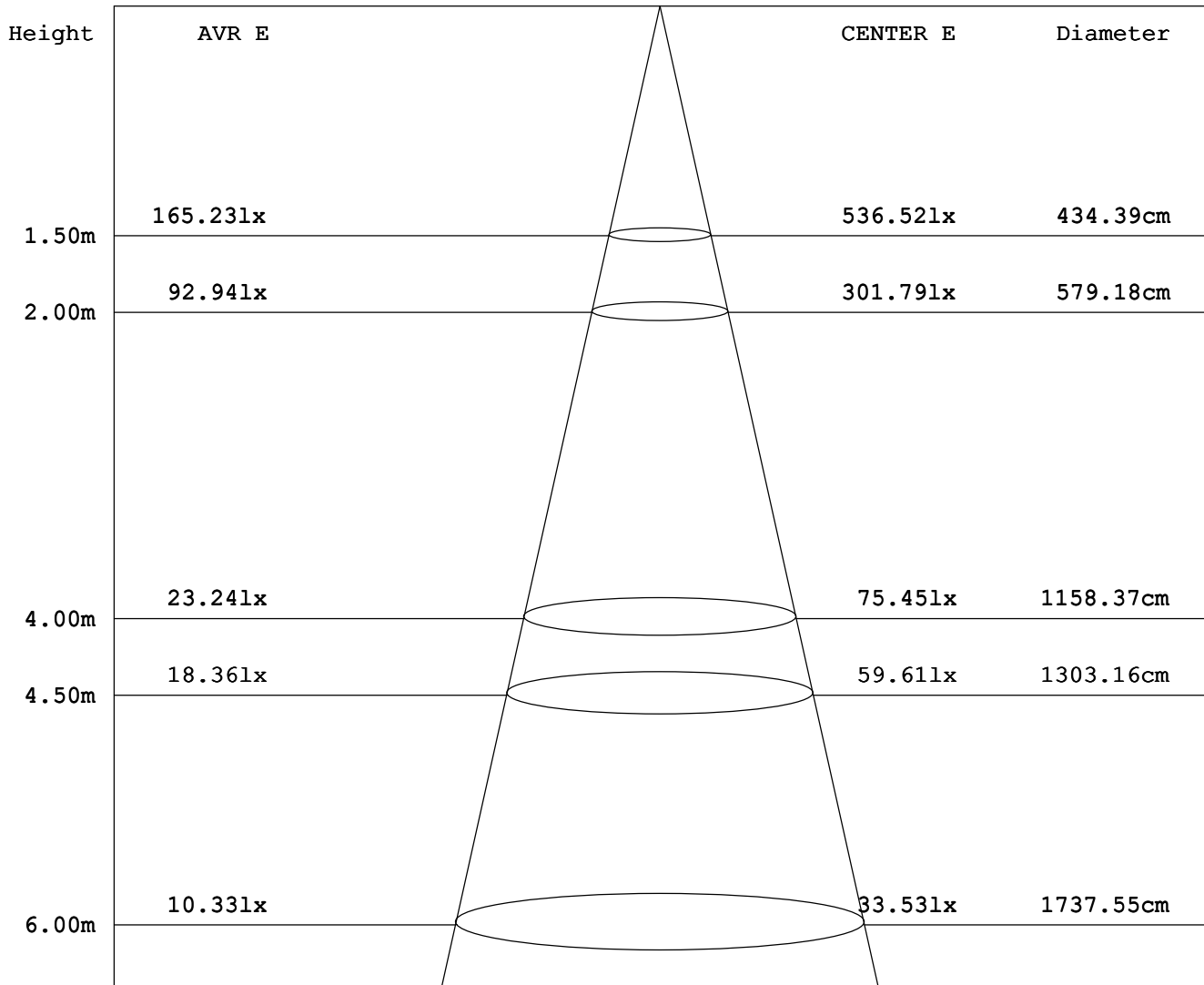
Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2019-10-18

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:	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



Angle:110.7deg

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2019-10-18

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:	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	zone	total
5.0	1208	1205	1201	1195	1195	1189	1193	1199	0- 5	28.72	28.72
10.0	1198	1197	1195	1178	1171	1166	1179	1186	5- 10	85.15	113.8
15.0	1175	1181	1170	1152	1136	1135	1146	1164	10- 15	138.7	252.6
20.0	1142	1147	1145	1111	1091	1087	1112	1125	15- 20	187.4	440.1
25.0	1097	1108	1101	1066	1037	1036	1058	1080	20- 25	229.9	670.0
30.0	1044	1058	1056	1008	974.6	972.1	1004	1024	25- 30	264.1	934.2
35.0	978.8	995.2	990.3	941.6	902.9	898.8	931.3	955.8	30- 35	289.4	1224
40.0	907.3	929.1	924.8	871.8	826.3	822.6	859.0	884.5	35- 40	304.5	1528
45.0	826.7	846.7	842.8	790.5	741.4	738.2	770.3	798.5	40- 45	309.3	1838
50.0	742.3	762.9	760.9	708.0	655.2	653.0	681.6	711.6	45- 50	303.2	2141
55.0	652.2	667.6	666.4	615.7	562.9	556.1	584.5	614.2	50- 55	287.4	2428
60.0	556.8	573.9	572.0	524.8	470.5	461.4	487.4	518.8	55- 60	262.0	2690
65.0	460.6	470.9	472.2	431.7	375.9	369.7	387.4	416.2	60- 65	229.0	2919
70.0	360.7	370.7	372.4	338.8	285.2	278.6	287.4	317.4	65- 70	189.3	3109
75.0	267.6	271.9	274.6	246.8	195.4	188.4	199.3	222.3	70- 75	145.8	3255
80.0	175.8	178.1	176.9	163.7	116.5	113.1	111.3	135.3	75- 80	101.2	3356
85.0	93.48	93.33	100.1	86.49	40.45	51.11	57.49	61.38	80- 85	58.42	3414
90.0	15.42	16.10	23.39	14.31	6.813	3.855	3.644	3.591	85- 90	21.66	3436
95.0	1.954	7.673	13.78	7.073	11.14	4.153	4.067	4.038	90- 95	4.185	3440
100.0	2.746	4.307	4.172	4.455	10.77	4.637	4.489	4.370	95-100	2.850	3443
105.0	3.591	4.631	4.727	5.207	10.40	5.296	4.964	4.623	100-105	2.615	3446
110.0	4.436	5.030	5.281	5.887	9.665	5.878	5.440	4.953	105-110	2.810	3448
115.0	4.859	5.479	5.836	6.557	10.14	6.450	5.915	5.267	110-115	2.976	3451
120.0	5.334	5.855	6.391	7.309	9.877	7.110	6.391	5.667	115-120	3.109	3454
125.0	6.179	6.320	6.945	7.839	10.45	7.742	6.866	6.112	120-125	3.203	3458
130.0	7.447	6.900	7.500	8.533	10.98	8.301	7.341	6.637	125-130	3.258	3461
135.0	7.500	7.244	8.054	9.081	11.46	8.873	7.817	7.166	130-135	3.253	3464
140.0	8.767	7.819	8.609	9.841	11.51	9.333	8.292	7.708	135-140	3.186	3467
145.0	9.190	8.444	9.164	10.35	12.35	10.03	8.767	8.089	140-145	3.056	3470
150.0	9.665	9.361	9.718	10.76	12.41	10.23	9.243	8.962	145-150	2.856	3473
155.0	10.51	9.717	10.27	11.22	12.83	10.96	9.718	9.496	150-155	2.584	3476
160.0	11.35	10.40	10.82	11.44	12.46	11.36	10.19	9.977	155-160	2.245	3478
165.0	11.77	11.12	11.38	11.85	12.88	11.61	10.66	10.65	160-165	1.840	3480
170.0	12.20	11.85	11.93	12.25	12.51	11.80	11.14	11.36	165-170	1.375	3481
175.0	12.62	12.24	12.49	12.65	12.51	12.16	11.62	11.75	170-175	0.856	3482
180.0	13.04	13.04	13.04	13.04	12.09	12.09	12.09	12.09	175-180	0.293	3482
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2019-10-18

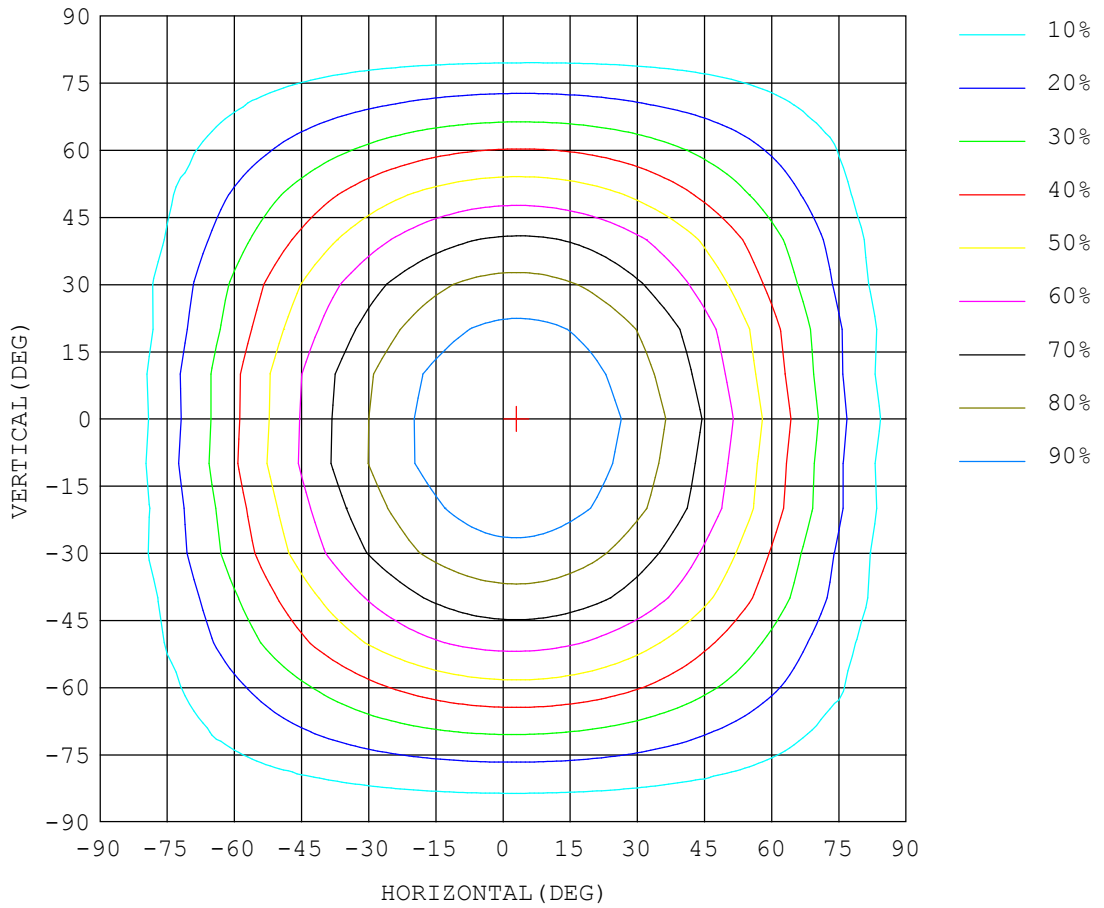
Test Set: 7.0deg/s B-Beta (TYPE B)  
 Humidity:65.0%  
 Test Distance:7.000 m  
 Remarks:

ISOCANDELA DIAGRAM

Report number:

<b>MANUFACTURER:</b>	<b>Address:</b>	
<b>NAME:</b>	<b>TYPE:</b>	<b>WEIGHT:</b>
<b>SPECIFICATION:</b>	<b>DIMENSION:</b>	<b>SERIAL No.:</b>

UNIT: cd



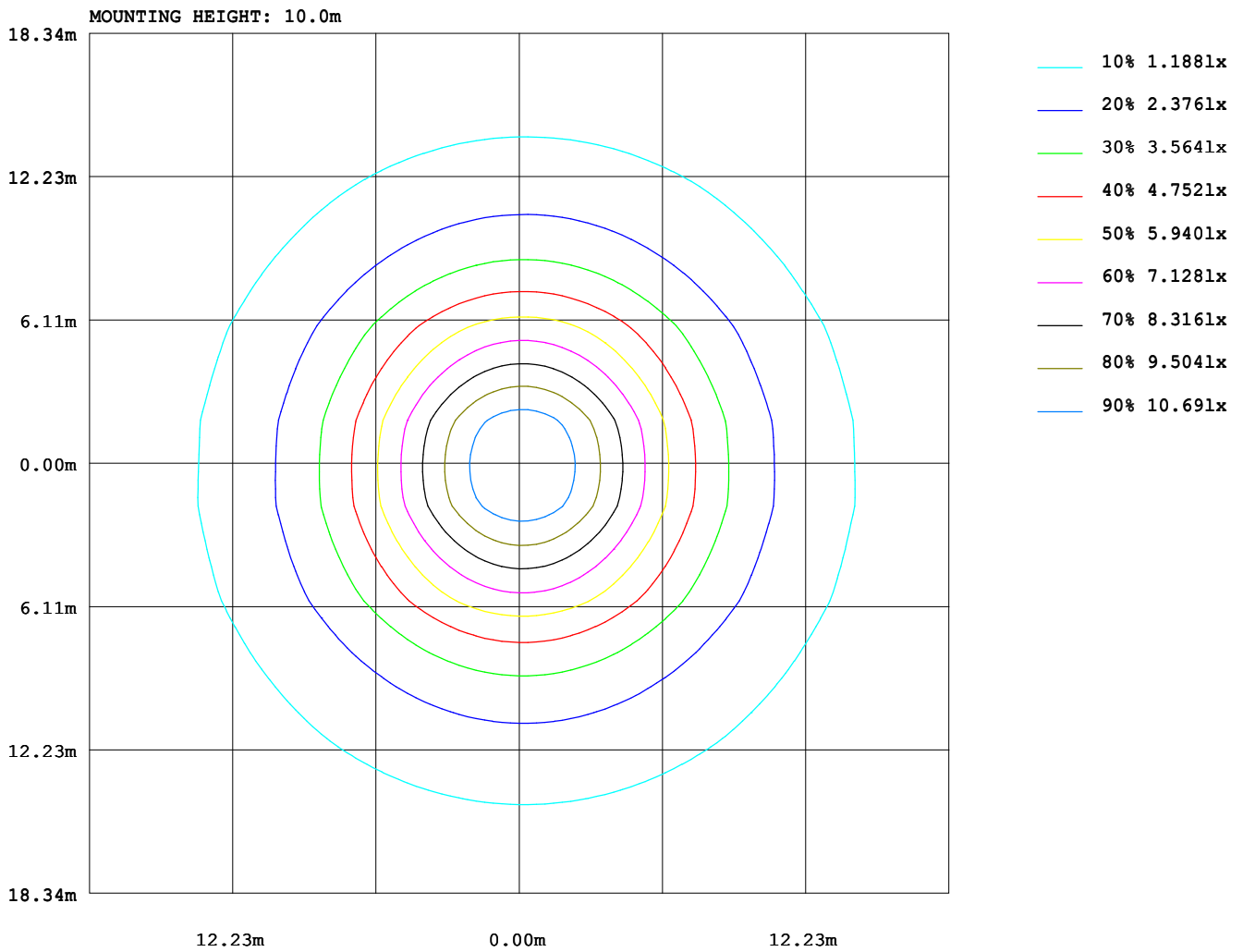
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 Temperature:25.3DEG  
 Operators:  
 Test Date:2019-10-18

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:	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2019-10-18

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:	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

		AREA FLUX DIAGRAM																UNIT:lm		$\Phi t$	$\Phi a$
VERTICAL (DEG)	90	0.01	0.03	0.05	0.07	0.08	0.09	0.09	0.10	0.10	0.10	0.10	0.09	0.08	0.07	0.06	0.04	0.02	0.01	1.17	0.00
	80	0.01	0.15	0.63	1.34	2.21	3.11	3.92	4.55	4.92	5.02	4.82	4.33	3.60	2.73	1.83	1.01	0.38	0.05	44.6	32.7
	70	0.03	0.46	1.50	3.03	4.86	6.85	8.76	10.2	11.2	11.4	10.7	9.46	7.66	5.65	3.70	2.01	0.74	0.10	98.5	96.4
	60	0.05	0.68	2.27	4.55	7.45	10.6	13.6	16.0	17.5	17.8	16.8	14.7	11.8	8.69	5.58	2.97	1.12	0.15	153	152
	50	0.08	1.01	3.04	6.16	10.0	14.2	18.2	21.4	23.3	23.6	22.2	19.3	15.5	11.3	7.21	3.78	1.38	0.18	202	202
	40	0.09	1.14	3.61	7.38	12.0	17.1	22.0	25.9	28.2	28.7	27.1	23.8	19.2	14.0	9.00	4.74	1.78	0.25	246	246
	30	0.14	1.46	4.32	8.73	14.1	19.9	25.4	29.7	32.2	32.5	30.6	26.7	21.4	15.5	9.93	5.20	1.89	0.26	281	280
		0.13	1.43	4.52	9.21	15.0	21.3	27.2	31.9	34.8	35.3	33.4	29.4	23.7	17.4	11.2	5.93	2.20	0.36	305	305
		0.19	1.69	5.03	10.0	16.2	22.8	28.9	33.6	36.4	36.7	34.5	30.1	24.2	17.6	11.2	5.89	2.13	0.30	318	318
		0.14	1.54	4.79	9.75	15.8	22.4	28.6	33.5	36.4	37.0	35.0	30.8	25.0	18.3	11.8	6.26	2.32	0.38	320	320
		0.19	1.67	4.97	9.93	15.9	22.4	28.3	33.0	35.7	36.0	33.8	29.5	23.7	17.2	11.0	5.73	2.07	0.28	312	312
	-30	0.13	1.41	4.36	8.86	14.4	20.4	26.1	30.6	33.4	33.9	32.0	28.1	22.7	16.6	10.7	5.65	2.09	0.33	292	292
	-40	0.17	1.45	4.19	8.35	13.4	18.9	24.0	28.0	30.3	30.5	28.6	24.9	19.9	14.4	9.17	4.75	1.71	0.24	264	263
	-50	0.12	1.07	3.32	6.73	10.9	15.5	19.9	23.4	25.6	26.0	24.5	21.5	17.3	12.6	8.11	4.26	1.58	0.25	223	223
	-60	0.12	0.99	2.82	5.60	9.03	12.7	16.1	18.8	20.3	20.5	19.2	16.7	13.3	9.64	6.09	3.16	1.15	0.15	177	176
	-70	0.07	0.63	1.91	3.78	6.13	8.69	11.1	13.0	14.2	14.4	13.6	11.9	9.64	7.02	4.49	2.37	0.92	0.14	124	123
-80	0.05	0.45	1.25	2.37	3.73	5.19	6.54	7.60	8.20	8.24	7.72	6.72	5.38	3.91	2.51	1.34	0.49	0.06	71.8	67.4	
-90	0.01	0.14	0.43	0.80	1.21	1.61	1.95	2.22	2.39	2.42	2.29	2.04	1.70	1.31	0.87	0.47	0.16	0.01	22.0	7.57	
		-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)		20	30	40	50	60	70	80	90		
$\Phi t$		1.73	17.4	53.0	107	173	244	311	364	396	401	378	331	267	195	125	65.6	24.2	3.49	3482	
$\Phi a$		0.01	13.6	49.9	104	170	242	309	363	394	399	376	329	265	192	122	63.1	21.6	1.58		3380

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:  
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Test Set: 7.0deg/s B-Beta (TYPE B)  
 Humidity:65.0%  
 Test Distance:7.000 m  
 Remarks:

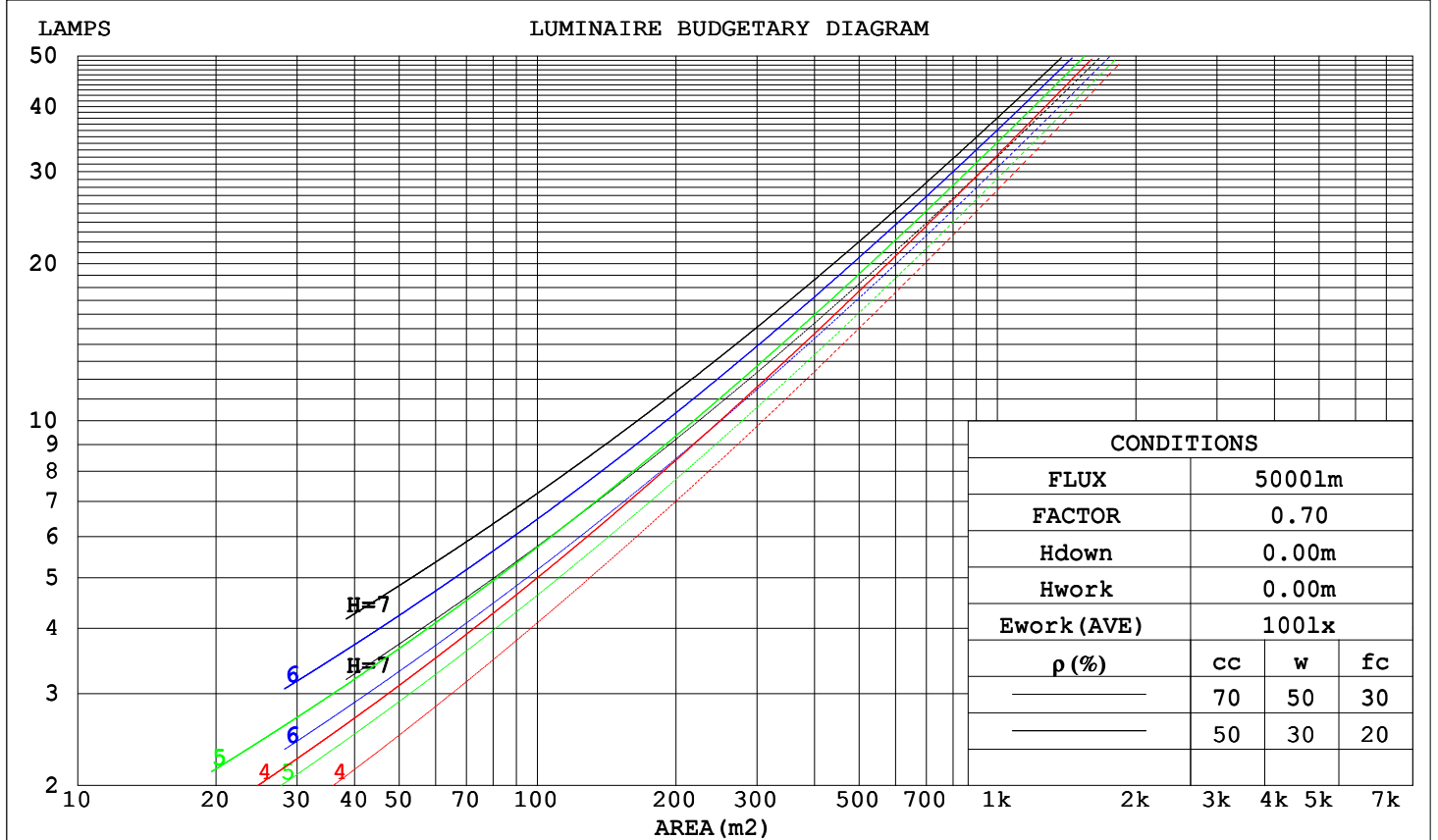
HONGPU GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER:				Address:							
NAME:				TYPE:				WEIGHT:			
SPECIFICATION:				DIMENSION:				SERIAL No.:			

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.20	1.20	1.20	1.17	1.17	1.17	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.99
1.0	1.04	.90	.96	1.02	.98	.94	.97	.94	.91	.93	.90	.88	.89	.87	.85	.83
2.0	.91	.84	.78	.89	.82	.77	.85	.79	.75	.81	.77	.73	.78	.74	.71	.69
3.0	.79	.71	.65	.78	.70	.64	.75	.68	.63	.72	.66	.61	.69	.64	.60	.58
4.0	.70	.61	.55	.69	.61	.54	.66	.59	.53	.64	.57	.52	.61	.56	.52	.49
5.0	.63	.54	.47	.62	.53	.47	.59	.52	.46	.57	.51	.45	.55	.49	.45	.43
6.0	.57	.47	.41	.56	.47	.41	.54	.46	.40	.52	.45	.40	.50	.44	.39	.37
7.0	.51	.42	.36	.50	.42	.36	.49	.41	.36	.47	.40	.35	.46	.40	.35	.33
8.0	.47	.38	.32	.46	.38	.32	.45	.37	.32	.43	.36	.32	.42	.36	.31	.29
9.0	.43	.35	.29	.42	.34	.29	.41	.34	.29	.40	.33	.28	.39	.33	.28	.26
10.0	.40	.32	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.26	.24



Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:  
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Test Set: 7.0deg/s B-Beta (TYPE B)  
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HONGPU GONIOPHOTOMETERS SYSTEM TEST REPORT

WEC AND CCEC

Report number:

MANUFACTURER:				Address:											
NAME:				TYPE:						WEIGHT:					
SPECIFICATION:				DIMENSION:						SERIAL No.:					

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pf <sub>c</sub>	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.316	.180	.057	.309	.176	.056	.295	.169	.054	.282	.162	.052	.270	.156	.050	
2.0	.296	.162	.050	.289	.159	.049	.276	.154	.048	.265	.149	.047	.254	.144	.045	
3.0	.273	.145	.043	.267	.143	.043	.256	.139	.042	.246	.135	.041	.236	.131	.040	
4.0	.251	.131	.038	.246	.129	.038	.236	.125	.037	.227	.122	.037	.219	.119	.036	
5.0	.232	.118	.034	.227	.117	.034	.219	.114	.034	.210	.111	.033	.203	.108	.033	
6.0	.215	.108	.031	.211	.107	.031	.203	.104	.030	.196	.102	.030	.189	.099	.030	
7.0	.200	.099	.028	.196	.098	.028	.189	.096	.028	.183	.094	.027	.177	.092	.027	
8.0	.187	.091	.026	.184	.090	.026	.177	.089	.025	.171	.087	.025	.166	.085	.025	
9.0	.175	.085	.024	.172	.084	.024	.166	.082	.023	.161	.081	.023	.156	.079	.023	
10.0	.165	.079	.022	.162	.078	.022	.157	.077	.022	.152	.075	.021	.147	.074	.021	

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pf <sub>c</sub>	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.202	.202	.202	.173	.173	.173	.118	.118	.118	.068	.068	.068	.022	.022	.022	
1.0	.192	.168	.145	.164	.144	.125	.113	.099	.087	.065	.057	.050	.021	.018	.016	
2.0	.184	.143	.109	.158	.123	.094	.108	.085	.066	.062	.050	.038	.020	.016	.013	
3.0	.176	.126	.085	.151	.108	.074	.104	.075	.052	.060	.044	.031	.019	.014	.010	
4.0	.169	.112	.069	.145	.097	.060	.099	.068	.042	.058	.040	.025	.019	.013	.008	
5.0	.161	.102	.058	.138	.088	.050	.095	.062	.036	.055	.036	.021	.018	.012	.007	
6.0	.154	.093	.050	.132	.081	.044	.091	.057	.031	.053	.033	.018	.017	.011	.006	
7.0	.147	.086	.044	.126	.075	.038	.087	.053	.027	.051	.031	.016	.016	.010	.005	
8.0	.140	.081	.040	.121	.070	.034	.084	.049	.024	.049	.029	.015	.016	.009	.005	
9.0	.134	.076	.036	.116	.066	.031	.080	.046	.022	.047	.027	.013	.015	.009	.004	
10.0	.129	.071	.033	.111	.062	.029	.077	.044	.021	.045	.026	.012	.015	.008	.004	

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:  
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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:		TYPE:				WEIGHT:				
SPECIFICATION:		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	17.0	18.6	17.3	18.8	19.0	17.2	18.7	17.5	18.9	19.1
	3H	18.7	20.1	19.0	20.3	20.6	18.8	20.2	19.1	20.5	20.7
	4H	19.4	20.7	19.7	21.0	21.2	19.5	20.8	19.9	21.1	21.4
	6H	19.9	21.2	20.3	21.4	21.8	20.1	21.3	20.4	21.6	21.9
	8H	20.1	21.3	20.5	21.6	22.0	20.3	21.5	20.7	21.8	22.1
	12H	20.3	21.5	20.7	21.8	22.1	20.5	21.6	20.9	22.0	22.3
4H	2H	17.7	19.0	18.0	19.3	19.6	17.8	19.1	18.1	19.4	19.7
	3H	19.5	20.7	19.9	21.0	21.3	19.6	20.8	20.0	21.1	21.5
	4H	20.3	21.4	20.7	21.7	22.1	20.5	21.5	20.9	21.9	22.3
	6H	21.0	21.9	21.4	22.3	22.7	21.2	22.1	21.6	22.5	22.9
	8H	21.3	22.2	21.7	22.6	23.0	21.5	22.3	21.9	22.7	23.2
	12H	21.5	22.3	22.0	22.7	23.2	21.7	22.5	22.2	22.9	23.4
8H	4H	20.6	21.5	21.1	21.9	22.3	20.8	21.7	21.2	22.1	22.5
	6H	21.5	22.2	22.0	22.7	23.1	21.7	22.4	22.1	22.8	23.3
	8H	21.9	22.5	22.4	23.0	23.5	22.1	22.7	22.5	23.2	23.6
	12H	22.2	22.8	22.7	23.2	23.7	22.4	23.0	22.9	23.5	24.0
12H	4H	20.7	21.5	21.1	21.9	22.3	20.8	21.6	21.3	22.0	22.5
	6H	21.6	22.2	22.1	22.7	23.2	21.7	22.4	22.2	22.8	23.3
	8H	22.0	22.6	22.5	23.1	23.6	22.2	22.8	22.7	23.2	23.7

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 3458 lm Total Lamp Luminous Flux. (8log(F/F0) = 4.3)

Test System:HOPPO HPG1900  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2019-10-18

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:

<b>MANUFACTURER:</b>	<b>Address:</b>		
<b>NAME:</b>	<b>TYPE:</b>	<b>WEIGHT:</b>	
<b>SPECIFICATION:</b>	<b>DIMENSION:</b>	<b>SERIAL No.:</b>	

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	46	39	57	46	39	55	45	38	32
0.80	68	56	48	66	55	48	65	54	48	41
1.00	76	65	57	75	64	57	72	65	56	49
1.25	83	72	65	82	72	65	79	70	64	56
1.50	88	78	71	86	77	70	83	75	69	61
2.00	95	86	80	93	85	79	89	83	77	69
2.50	99	91	85	97	90	84	93	87	82	73
3.00	102	95	90	100	94	88	96	91	86	77
4.00	106	101	96	104	99	94	99	95	91	82
5.00	109	104	100	106	102	98	101	98	95	85
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

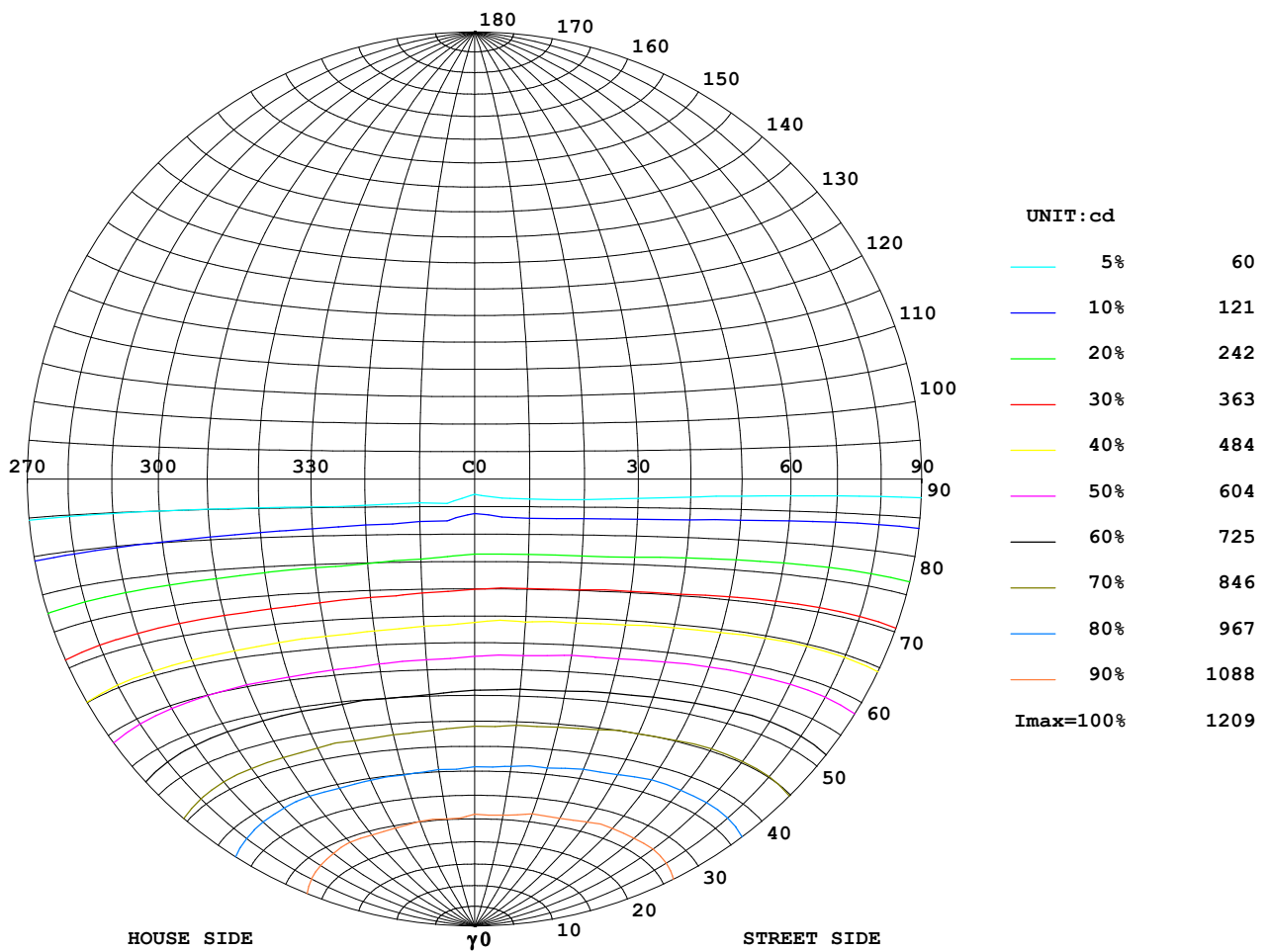
Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2019-10-18

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:	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2019-10-18

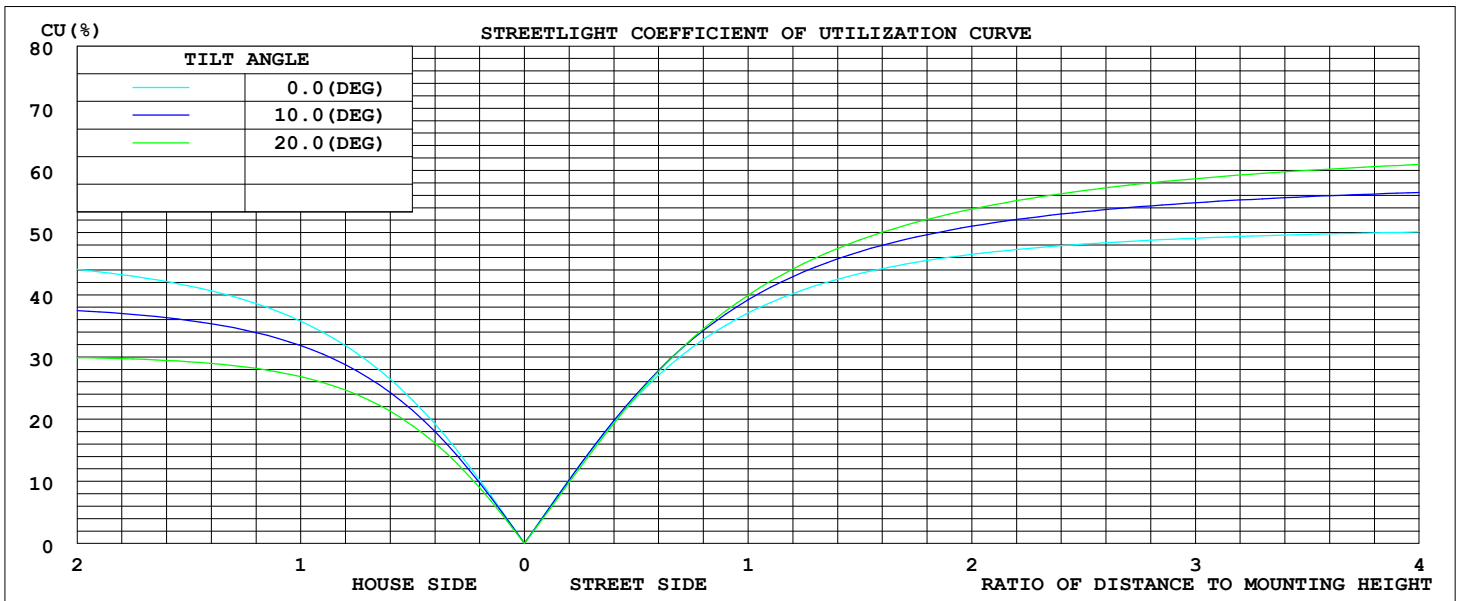
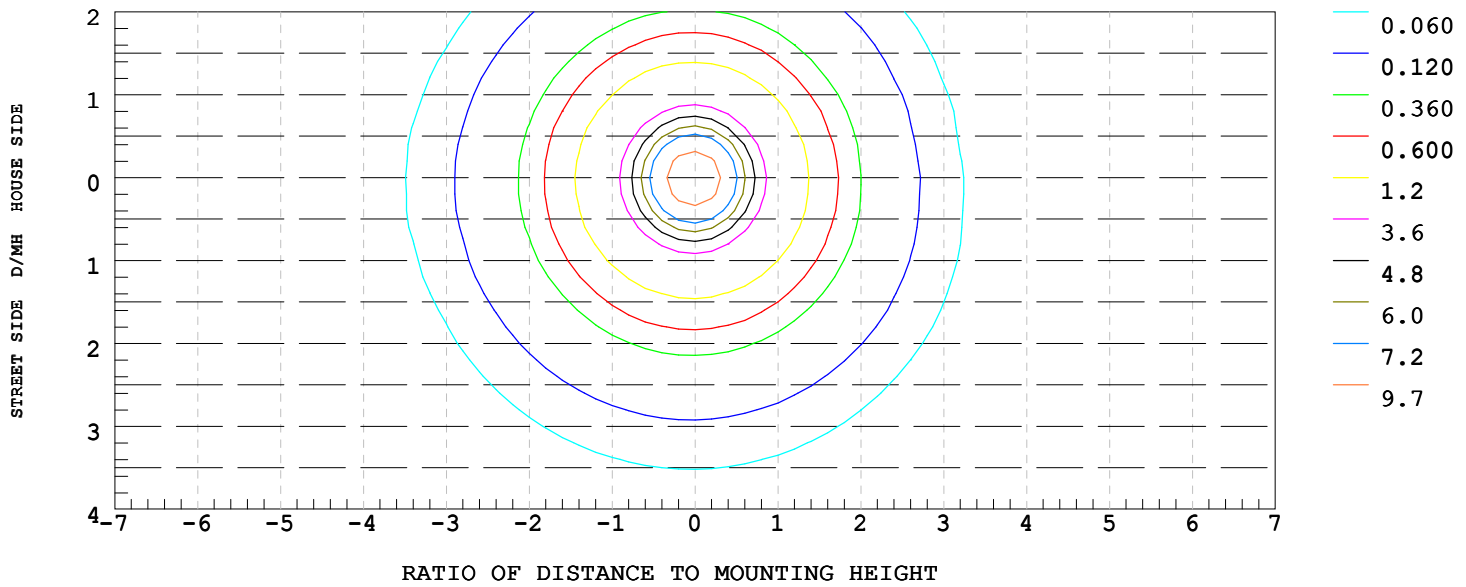
Test Set: 7.0deg/s B-Beta (TYPE B)  
 Humidity:65.0%  
 Test Distance:7.000 m  
 Remarks:

ISOLUX DIAGRAM

Report number:

MANUFACTURER:	Address:	
NAME:	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

ILLUMINANCE AT MH=10 m, Enadir = 12.07 lx



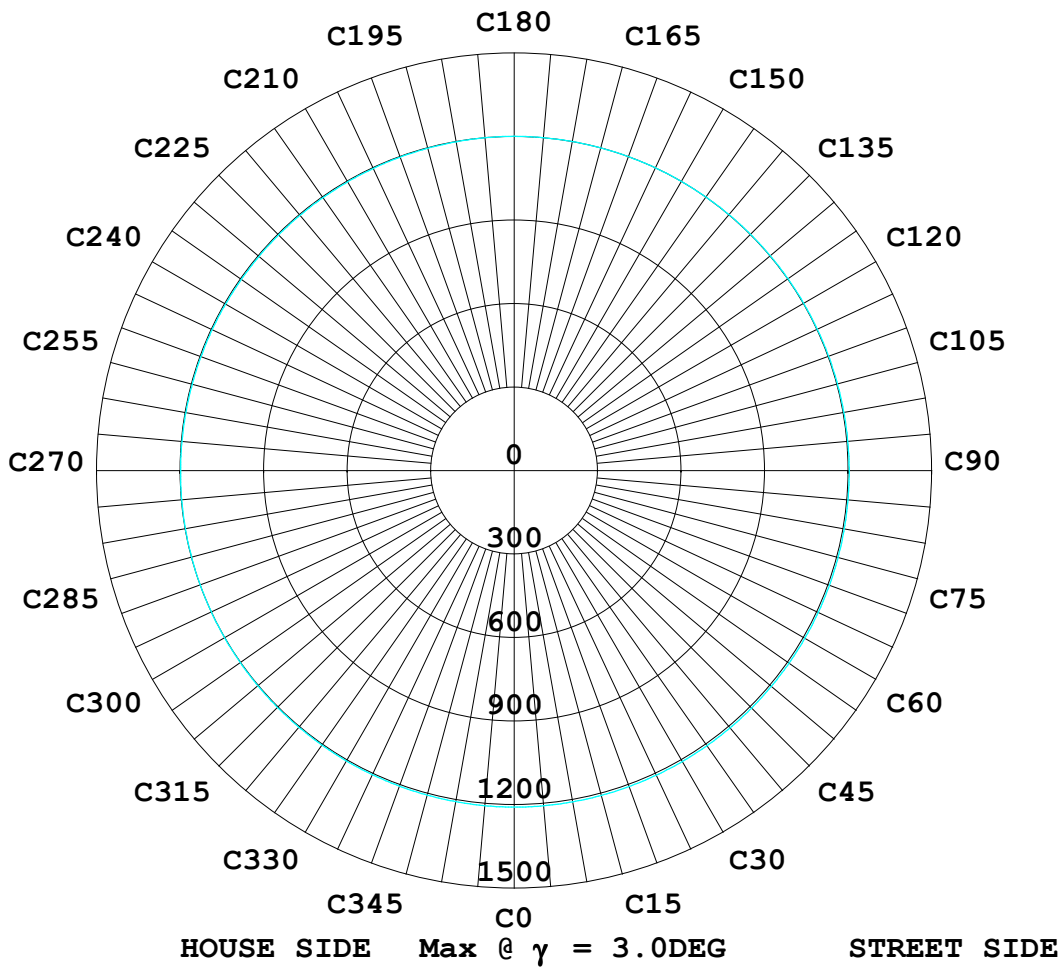
Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2019-10-18

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:	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2019-10-18

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:</b>	<b>TYPE:</b>	<b>WEIGHT:</b>
<b>SPECIFICATION:</b>	<b>DIMENSION:</b>	<b>SERIAL No.:</b>

UNIT: cd

γ (DEG)	C (DEG)														
	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70
0.0	1207	1207	1207	1207	1207	1207	1207	1207	1207	1207	1207	1207	1207	1207	1207
5.0	1208	1207	1207	1207	1206	1206	1206	1205	1205	1205	1205	1204	1204	1204	1203
10.0	1198	1197	1196	1196	1196	1196	1196	1196	1197	1197	1198	1198	1198	1198	1198
15.0	1175	1174	1173	1174	1174	1176	1177	1179	1182	1181	1180	1179	1177	1177	1176
20.0	1142	1141	1141	1142	1144	1147	1150	1148	1147	1147	1147	1148	1149	1149	1149
25.0	1097	1096	1097	1100	1104	1105	1105	1105	1106	1108	1111	1110	1110	1109	1108
30.0	1044	1043	1045	1049	1051	1050	1051	1054	1058	1058	1057	1058	1059	1060	1061
35.0	979	978	981	987	986	988	992	992	993	995	999	1003	1002	1000	999
40.0	907	907	913	914	913	918	918	921	926	929	928	928	929	929	930
45.0	827	828	835	833	837	837	841	847	845	847	848	851	853	851	851
50.0	742	744	748	747	748	753	759	757	758	763	762	763	764	766	766
55.0	652	654	656	657	660	664	661	666	666	668	671	674	674	674	673
60.0	557	562	559	561	566	565	566	567	572	574	573	575	575	576	576
65.0	461	467	463	468	464	465	468	471	470	471	472	475	475	476	477
70.0	361	366	364	364	364	368	366	367	367	371	372	374	375	376	376
75.0	268	268	269	265	267	265	265	269	271	272	274	275	276	277	277
80.0	176	177	173	171	170	173	174	175	176	178	178	178	179	179	179
85.0	93.4	88.0	81.7	84.1	83.5	83.7	84.3	86.8	89.0	93.3	93.5	95.1	96.6	97.8	98.9
90.0	15.4	3.64	3.64	4.27	6.17	8.23	10.2	12.3	14.3	16.1	17.7	19.0	20.1	21.0	21.8
95.0	1.95	3.28	3.83	3.97	4.03	4.05	4.11	5.17	6.40	7.67	8.88	9.96	10.9	11.7	12.4
100.0	2.74	3.44	3.65	4.00	4.10	4.21	4.24	4.29	4.31	4.30	4.29	4.26	4.27	4.25	4.22
105.0	3.59	3.46	4.00	4.19	4.29	4.41	4.47	4.54	4.61	4.63	4.65	4.67	4.67	4.68	4.70
110.0	4.43	4.36	4.20	4.45	4.45	4.65	4.82	4.97	4.99	5.03	5.08	5.10	5.11	5.15	5.17
115.0	4.85	4.77	4.90	4.84	4.90	5.06	5.16	5.30	5.35	5.47	5.47	5.57	5.53	5.62	5.64
120.0	5.33	5.19	5.22	5.31	5.50	5.52	5.62	5.63	5.80	5.85	5.97	5.90	6.04	6.13	6.10
125.0	6.17	6.11	6.16	5.95	6.25	6.14	6.03	6.23	6.29	6.32	6.51	6.42	6.46	6.65	6.67
130.0	7.44	7.10	6.65	6.81	6.81	6.65	6.71	6.77	6.81	6.90	6.75	6.98	7.05	7.11	7.19
135.0	7.50	7.37	7.40	7.23	7.34	7.43	7.29	7.29	7.41	7.24	7.31	7.41	7.68	7.56	7.66
140.0	8.76	8.52	8.28	8.05	8.12	7.95	8.05	8.13	7.71	7.81	7.91	8.10	8.12	8.23	8.20
145.0	9.19	9.03	8.98	8.90	8.82	8.81	8.34	8.46	8.57	8.44	8.64	8.67	8.63	8.69	8.85
150.0	9.66	9.46	9.27	9.12	9.25	9.09	9.23	9.05	9.21	9.36	9.21	9.17	9.25	9.37	9.34
155.0	10.5	10.3	10.1	9.96	10.0	9.99	10.0	10.0	9.85	9.71	9.90	9.79	9.93	9.90	9.82
160.0	11.3	11.1	11.0	10.8	10.7	10.5	10.4	10.5	10.5	10.4	10.3	10.5	10.4	10.3	10.5
165.0	11.7	11.6	11.5	11.4	11.2	11.1	11.0	11.2	11.2	11.1	11.0	10.9	11.0	10.9	11.1
170.0	12.2	12.1	12.0	11.9	11.8	11.7	11.6	11.6	11.6	11.8	11.6	11.5	11.7	11.6	11.6
175.0	12.6	12.5	12.5	12.4	12.4	12.4	12.3	12.3	12.2	12.2	12.2	12.1	11.9	11.8	11.7
180.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2019-10-18

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:</b>	<b>TYPE:</b>	<b>WEIGHT:</b>
<b>SPECIFICATION:</b>	<b>DIMENSION:</b>	<b>SERIAL No.:</b>

UNIT: cd

γ (DEG)	C (DEG)														
	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145
0.0	1207	1207	1207	1207	1207	1207	1207	1207	1207	1207	1207	1207	1207	1207	1207
5.0	1203	1203	1202	1201	1201	1200	1199	1199	1198	1197	1197	1196	1195	1195	1194
10.0	1198	1198	1197	1195	1194	1192	1191	1189	1187	1185	1182	1180	1178	1176	1174
15.0	1174	1173	1172	1170	1168	1166	1164	1162	1160	1158	1156	1154	1152	1150	1146
20.0	1149	1148	1147	1145	1143	1140	1136	1132	1128	1123	1119	1114	1111	1108	1105
25.0	1106	1105	1103	1101	1098	1094	1091	1087	1083	1079	1076	1072	1066	1060	1054
30.0	1061	1060	1058	1056	1052	1048	1043	1037	1030	1024	1018	1013	1008	1005	997
35.0	998	996	993	990	987	983	978	973	968	964	959	950	942	936	932
40.0	930	929	928	925	921	916	910	904	897	890	883	876	872	864	855
45.0	850	848	846	843	839	835	830	824	819	813	807	798	791	782	777
50.0	766	766	764	761	757	752	746	740	733	726	719	714	708	699	691
55.0	672	671	669	666	663	659	654	649	644	638	631	623	616	611	604
60.0	576	576	574	572	569	565	561	555	550	544	538	531	525	517	510
65.0	476	476	474	472	470	466	463	459	454	449	444	438	432	424	418
70.0	376	375	374	372	370	368	365	361	357	353	348	344	339	335	328
75.0	277	277	276	275	273	271	269	266	263	260	256	252	247	243	239
80.0	178	178	178	177	176	175	174	173	172	171	169	167	164	159	156
85.0	99.6	100	100	100	99.6	98.9	97.7	96.3	94.8	93.0	90.7	88.7	86.4	83.5	81.0
90.0	22.5	22.9	23.2	23.3	23.3	23.1	22.6	22.0	21.2	19.9	18.0	16.1	14.3	12.6	11.1
95.0	13.0	13.4	13.6	13.7	13.7	13.5	13.0	12.5	11.8	10.8	9.56	8.30	7.07	5.95	4.90
100.0	4.20	4.18	4.17	4.17	4.17	4.18	4.21	4.24	4.23	4.28	4.35	4.39	4.45	4.55	4.67
105.0	4.69	4.69	4.70	4.72	4.73	4.75	4.78	4.82	4.86	4.91	5.00	5.09	5.20	5.34	5.52
110.0	5.18	5.20	5.23	5.28	5.28	5.31	5.35	5.41	5.50	5.53	5.64	5.77	5.88	6.07	6.32
115.0	5.67	5.71	5.76	5.83	5.84	5.87	5.92	5.99	6.12	6.24	6.31	6.41	6.55	6.89	7.08
120.0	6.16	6.21	6.29	6.39	6.40	6.43	6.48	6.65	6.73	6.83	6.91	7.10	7.30	7.44	7.73
125.0	6.74	6.72	6.82	6.94	6.95	6.99	7.04	7.17	7.26	7.45	7.50	7.80	7.83	8.22	8.38
130.0	7.28	7.28	7.35	7.50	7.51	7.54	7.60	7.69	7.81	8.08	8.26	8.29	8.53	8.77	9.12
135.0	7.78	7.90	7.88	8.05	8.06	8.10	8.16	8.25	8.48	8.61	8.84	9.05	9.08	9.36	9.50
140.0	8.28	8.34	8.40	8.60	8.62	8.56	8.71	8.80	8.91	9.05	9.40	9.51	9.84	9.84	10.3
145.0	8.78	8.83	8.91	9.16	9.17	9.07	9.26	9.34	9.45	9.75	9.73	10.1	10.3	10.6	10.5
150.0	9.42	9.49	9.35	9.71	9.72	9.76	9.81	9.88	9.98	10.0	10.4	10.3	10.7	11.0	11.2
155.0	9.88	10.0	9.77	10.2	10.2	10.3	10.1	10.4	10.5	10.6	10.7	10.8	11.2	11.1	11.4
160.0	10.5	10.5	10.2	10.8	10.7	10.8	10.8	10.8	11.0	11.1	11.2	11.3	11.4	11.5	11.8
165.0	11.0	10.9	10.7	11.3	11.1	11.4	11.4	11.4	11.3	11.5	11.6	11.7	11.8	11.9	12.0
170.0	11.4	11.2	11.3	11.9	11.6	11.8	11.9	12.0	12.0	12.0	11.9	11.9	12.2	12.3	12.4
175.0	11.7	11.8	12.1	12.4	12.3	12.2	12.2	12.4	12.5	12.5	12.5	12.6	12.6	12.6	12.7
180.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2019-10-18

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:</b>	<b>TYPE:</b>	<b>WEIGHT:</b>
<b>SPECIFICATION:</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	1207	1207	1207	1207	1207	1207	1207	1207	1207	1207	1207	1207	1207	1207	1207
5.0	1194	1194	1194	1194	1194	1194	1195	1194	1193	1192	1191	1190	1190	1190	1190
10.0	1173	1171	1170	1170	1170	1170	1171	1169	1167	1166	1165	1164	1164	1165	1166
15.0	1142	1139	1137	1136	1135	1135	1136	1133	1131	1129	1129	1129	1130	1131	1134
20.0	1104	1100	1096	1092	1090	1090	1091	1087	1085	1084	1084	1086	1087	1086	1086
25.0	1050	1047	1044	1039	1036	1035	1037	1032	1028	1028	1029	1029	1029	1030	1033
30.0	991	985	983	979	974	973	975	968	965	966	965	964	966	969	973
35.0	927	918	911	909	903	901	903	895	892	893	891	893	898	898	897
40.0	850	846	837	832	828	824	826	818	816	814	814	818	816	815	819
45.0	769	763	757	748	744	739	741	733	731	728	732	732	730	733	734
50.0	685	675	671	664	657	653	655	646	643	643	643	640	643	644	648
55.0	594	587	580	577	566	560	563	552	550	554	550	549	551	556	557
60.0	507	497	488	482	477	469	471	460	460	457	454	458	462	459	460
65.0	411	406	398	389	386	375	376	366	368	362	365	367	364	364	366
70.0	320	313	309	299	292	284	285	275	273	273	276	272	274	278	279
75.0	235	229	220	215	206	200	195	191	187	190	187	192	192	191	190
80.0	151	148	144	137	128	121	117	107	108	113	114	112	110	112	113
85.0	78.4	75.4	70.8	65.5	61.5	52.2	40.4	29.5	35.2	39.0	43.0	43.8	44.2	47.0	49.4
90.0	9.98	8.82	7.65	6.02	4.64	3.75	6.81	3.69	3.69	3.69	3.75	3.75	3.80	3.85	3.85
95.0	3.95	4.03	4.26	4.71	5.60	7.96	11.1	6.74	5.08	4.38	4.08	3.95	3.96	4.08	4.14
100.0	4.87	5.19	5.61	6.36	7.68	9.70	10.7	8.37	6.63	5.61	5.08	4.84	4.73	4.68	4.67
105.0	5.82	6.16	6.79	7.59	8.77	10.4	10.4	8.66	7.42	6.58	6.02	5.67	5.43	5.37	5.35
110.0	6.61	7.09	7.74	8.52	9.40	10.8	9.66	8.87	7.83	7.33	6.62	6.42	6.18	6.10	5.92
115.0	7.44	7.90	8.43	9.04	10.1	11.1	10.1	9.15	8.51	7.92	7.45	7.10	6.83	6.83	6.61
120.0	8.02	8.58	9.01	9.80	10.4	11.0	9.87	9.38	8.99	8.26	8.03	7.70	7.61	7.40	7.19
125.0	8.71	9.17	9.66	10.1	10.5	11.5	10.4	9.89	9.43	8.98	8.76	8.60	8.22	8.00	7.89
130.0	9.26	9.92	10.1	10.6	10.8	11.6	10.9	10.4	10.0	9.79	9.16	9.07	8.74	8.67	8.39
135.0	9.99	10.1	10.5	11.2	11.7	12.0	11.4	11.0	10.5	10.4	9.81	9.50	9.41	9.26	9.03
140.0	10.4	10.6	11.1	11.5	11.9	12.1	11.5	11.2	11.0	10.7	10.4	10.1	10.0	9.61	9.56
145.0	10.8	11.2	11.5	11.8	12.0	12.2	12.3	12.0	11.6	11.3	10.8	10.6	10.4	10.2	10.2
150.0	11.4	11.8	11.7	12.0	12.3	12.6	12.4	12.1	11.8	11.5	11.2	11.0	11.1	10.8	10.4
155.0	11.8	12.1	12.3	12.5	12.6	12.7	12.8	12.5	12.3	12.1	11.6	11.3	11.1	10.9	11.1
160.0	12.1	12.0	12.2	12.4	12.6	12.8	12.4	12.3	12.2	12.2	12.1	11.9	11.7	11.6	11.4
165.0	12.1	12.3	12.4	12.6	12.7	12.8	12.8	12.7	12.6	12.4	12.3	12.2	12.0	11.7	11.7
170.0	12.4	12.5	12.6	12.7	12.8	12.9	12.5	12.4	12.3	12.2	12.1	12.0	12.0	11.9	11.8
175.0	12.7	12.8	12.8	12.9	12.9	12.9	12.5	12.4	12.4	12.3	12.3	12.3	12.2	12.2	12.1
180.0	13.0	13.0	13.0	13.0	13.0	13.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2019-10-18

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:</b>	<b>TYPE:</b>	<b>WEIGHT:</b>
<b>SPECIFICATION:</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	1207	1207	1207	1207	1207	1207	1207	1207	1207	1207	1207	1207	1207	1207	1207
5.0	1189	1190	1190	1190	1191	1191	1191	1192	1193	1193	1194	1195	1195	1196	1196
10.0	1166	1167	1169	1170	1172	1173	1175	1176	1178	1179	1181	1182	1182	1183	1184
15.0	1135	1135	1135	1136	1137	1139	1140	1142	1144	1146	1148	1149	1151	1153	1155
20.0	1087	1089	1091	1094	1098	1101	1104	1107	1110	1112	1114	1116	1117	1119	1120
25.0	1036	1041	1042	1043	1044	1047	1050	1052	1055	1058	1061	1063	1066	1069	1071
30.0	972	974	976	979	983	988	992	996	1000	1004	1007	1009	1011	1013	1014
35.0	899	903	909	911	914	917	921	924	928	931	935	938	941	944	948
40.0	823	824	828	833	837	842	846	852	855	859	863	865	868	869	871
45.0	738	742	748	751	754	756	759	763	767	770	774	778	781	785	788
50.0	653	654	655	657	661	665	669	674	678	682	685	689	692	694	697
55.0	556	558	561	564	568	571	574	578	581	585	588	591	595	598	602
60.0	461	464	467	470	473	476	479	482	485	487	490	493	496	499	502
65.0	370	372	374	376	377	379	380	382	385	387	390	393	396	399	402
70.0	279	279	279	280	280	281	282	284	285	287	290	293	296	299	303
75.0	188	189	190	192	193	194	195	196	198	199	201	203	206	208	211
80.0	113	113	113	113	112	111	111	110	111	111	113	114	117	119	122
85.0	51.1	52.5	53.5	54.3	55.0	55.6	56.1	56.5	57.0	57.4	57.9	58.5	59.0	59.5	59.9
90.0	3.85	3.85	3.80	3.75	3.75	3.69	3.69	3.69	3.69	3.64	3.64	3.64	3.64	3.64	3.59
95.0	4.15	4.16	4.12	4.11	4.09	4.09	4.08	4.09	4.09	4.06	4.06	4.04	4.05	4.03	4.02
100.0	4.63	4.60	4.54	4.53	4.49	4.50	4.47	4.50	4.49	4.48	4.49	4.45	4.46	4.43	4.45
105.0	5.29	5.21	5.14	5.10	5.06	5.05	5.01	5.01	4.99	4.96	4.97	4.91	4.90	4.85	4.82
110.0	5.87	5.79	5.72	5.66	5.63	5.61	5.56	5.52	5.50	5.44	5.44	5.39	5.33	5.28	5.23
115.0	6.45	6.40	6.32	6.22	6.16	6.16	6.10	6.02	6.00	5.91	5.92	5.89	5.76	5.73	5.65
120.0	7.11	7.04	6.91	6.88	6.69	6.71	6.63	6.53	6.50	6.39	6.40	6.37	6.20	6.19	6.11
125.0	7.74	7.50	7.44	7.44	7.21	7.25	7.11	7.03	7.00	6.86	6.87	6.85	6.73	6.57	6.57
130.0	8.30	8.15	8.14	7.85	7.90	7.79	7.66	7.54	7.51	7.34	7.35	7.33	7.21	7.08	6.98
135.0	8.87	8.65	8.66	8.36	8.43	8.32	8.17	8.04	8.01	7.81	7.82	7.80	7.66	7.54	7.52
140.0	9.33	9.37	9.00	9.08	8.95	8.79	8.60	8.54	8.51	8.29	8.30	8.18	8.20	8.03	7.87
145.0	10.0	9.63	9.68	9.58	9.46	9.30	9.09	9.04	9.01	8.76	8.77	8.63	8.80	8.62	8.45
150.0	10.2	10.3	10.2	10.0	9.79	9.65	9.59	9.54	9.51	9.24	9.25	9.27	9.27	9.10	9.08
155.0	10.9	10.8	10.6	10.3	10.2	10.1	10.0	10.0	10.0	9.71	9.72	9.75	9.56	9.79	9.56
160.0	11.3	11.1	11.0	10.7	10.6	10.6	10.5	10.5	10.4	10.1	10.2	10.2	10.2	10.1	10.3
165.0	11.6	11.3	11.2	11.2	11.1	11.0	11.0	11.0	10.7	10.6	10.6	10.6	10.7	10.7	10.5
170.0	11.8	11.7	11.6	11.6	11.6	11.5	11.5	11.4	11.1	11.1	11.1	11.1	11.1	11.2	11.2
175.0	12.1	12.1	12.1	12.0	12.0	11.9	11.7	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6
180.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2019-10-18

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:</b>	<b>TYPE:</b>	<b>WEIGHT:</b>
<b>SPECIFICATION:</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	1207	1207	1207	1207	1207	1207	1207	1207	1207	1207	1207	1207
5.0	1197	1198	1198	1199	1200	1201	1202	1202	1203	1205	1206	1207
10.0	1184	1185	1185	1186	1186	1187	1188	1189	1190	1192	1193	1195
15.0	1156	1159	1161	1164	1166	1166	1165	1166	1166	1167	1169	1172
20.0	1121	1122	1123	1125	1127	1130	1134	1134	1133	1134	1136	1138
25.0	1075	1078	1080	1080	1081	1082	1085	1088	1091	1089	1090	1093
30.0	1016	1018	1020	1024	1028	1027	1028	1030	1035	1037	1037	1039
35.0	952	956	955	956	958	961	965	965	968	974	972	974
40.0	874	876	879	885	886	887	888	893	893	899	902	902
45.0	792	795	796	799	802	808	808	810	815	817	824	822
50.0	700	703	707	712	712	716	723	723	726	730	737	738
55.0	606	610	612	614	618	623	625	633	636	640	644	648
60.0	505	509	513	519	522	524	529	534	542	543	548	556
65.0	405	409	412	416	421	428	432	435	440	450	452	461
70.0	306	310	314	317	320	326	331	339	342	348	354	360
75.0	213	216	219	222	227	231	233	239	247	251	260	264
80.0	125	129	132	135	139	143	147	151	153	160	165	175
85.0	60.4	60.7	61.1	61.3	61.6	61.8	61.6	65.5	68.6	72.8	68.8	73.1
90.0	3.59	3.59	3.59	3.59	3.59	3.59	3.53	3.48	3.43	3.38	3.32	3.48
95.0	4.01	4.01	4.03	4.03	4.08	4.09	4.06	4.00	3.83	3.67	3.32	2.38
100.0	4.42	4.39	4.40	4.37	4.33	4.25	4.11	3.94	3.68	3.39	2.80	2.15
105.0	4.78	4.74	4.70	4.62	4.55	4.46	4.23	4.06	3.70	3.34	2.90	2.27
110.0	5.14	5.11	5.01	4.95	4.83	4.68	4.38	4.16	4.01	3.53	3.09	2.85
115.0	5.59	5.48	5.40	5.26	5.18	4.99	4.86	4.40	4.18	4.06	3.69	3.45
120.0	6.05	5.92	5.84	5.66	5.57	5.34	5.13	5.09	4.57	4.48	4.26	4.20
125.0	6.37	6.26	6.30	6.11	5.88	5.91	5.63	5.51	5.34	5.33	4.94	4.67
130.0	6.90	6.95	6.71	6.63	6.52	6.23	6.30	6.19	6.04	5.88	5.67	5.79
135.0	7.48	7.19	7.24	7.16	7.07	6.92	6.81	6.69	6.80	6.64	6.76	6.68
140.0	7.88	7.83	7.62	7.70	7.60	7.66	7.60	7.47	7.32	7.36	7.30	7.48
145.0	8.43	8.35	8.31	8.08	8.43	8.01	8.17	8.11	8.27	8.32	8.37	8.38
150.0	8.95	8.92	8.84	8.96	8.79	8.61	8.95	8.90	8.69	8.86	9.03	9.21
155.0	9.58	9.43	9.29	9.49	9.40	9.53	9.51	9.47	9.48	9.40	9.55	9.71
160.0	10.0	10.1	9.98	9.97	10.0	9.92	10.2	10.0	10.1	10.2	10.4	10.5
165.0	10.8	10.8	10.7	10.6	10.7	10.7	10.5	10.6	10.7	10.8	10.9	11.0
170.0	11.2	11.0	11.1	11.3	11.4	11.4	11.5	11.6	11.5	11.5	11.5	11.5
175.0	11.6	11.7	11.7	11.7	11.7	11.8	11.8	11.8	11.9	11.9	12.0	12.0
180.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2019-10-18

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