

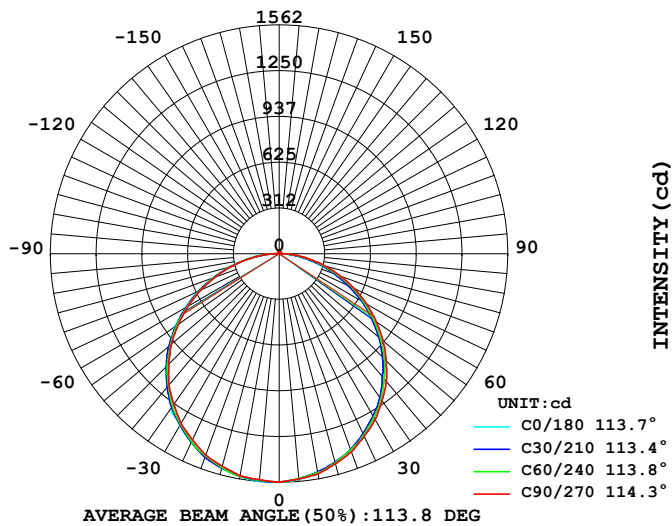
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

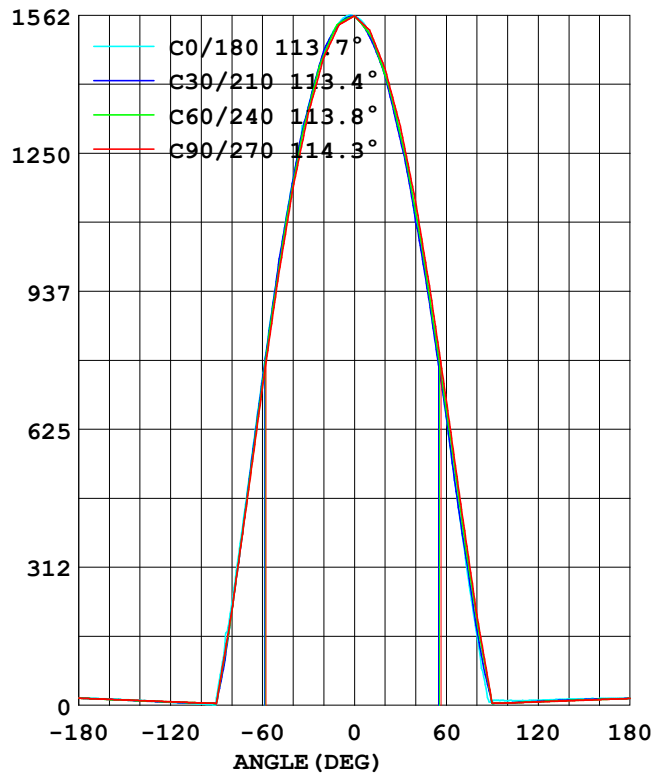
MANUFACTURER:	Address:		
NAME:	TYPE:	WEIGHT:	
SPECIFICATION:	DIMENSION:	SERIAL No.:	

DATA OF LAMP		Imax (cd)	1562	S/MH (C0/180)	1.29
MODEL		EFFICIENCY (%)	100.0	S/MH (C90/270)	1.27
NOMINAL POWER (W)	40	TOTAL FLUX (lm)	4567.3	Voltage (V)	120.5
RATED VOLTAGE (V)	120	EFFICIENCY (lm/W)	114.6	Current (A)	0.200
NOMINAL FLUX (lm)	4567.4	η up (%)	1.2	Power (W)	39.84
LAMPS QUANTITY	1	η down (%)	98.8	Power Factor (PF)	0.932
TEST VOLTAGE (V)	120.5	Effective Flux (lm)	0.0	EET	0.000

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



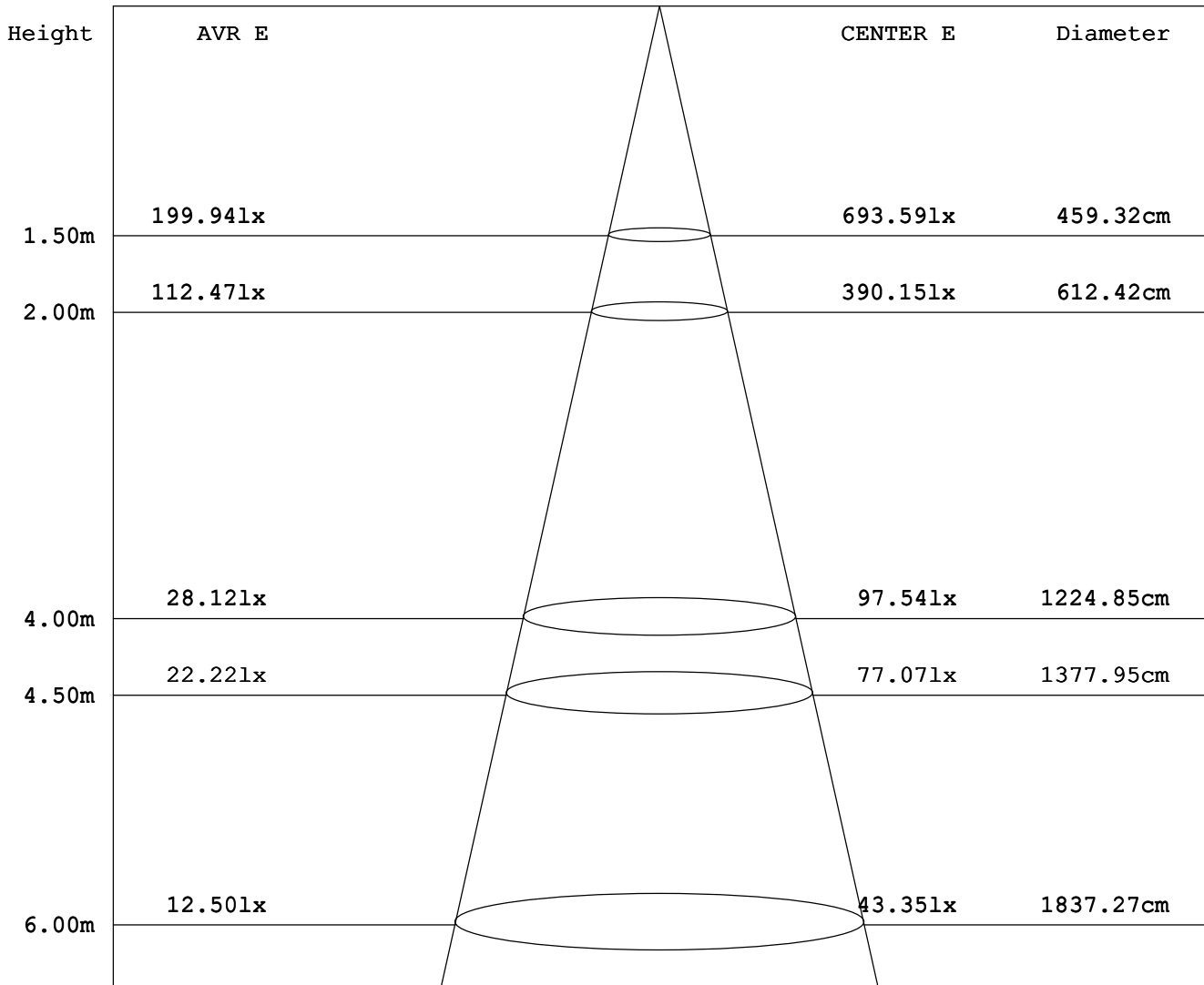
Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2019-07-09

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:113.7deg

Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2019-07-09

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	1560	1555	1551	1546	1549	1542	1545	1550	0- 5	37.14	37.14
10.0	1546	1543	1541	1525	1522	1516	1528	1533	5- 10	110.1	147.2
15.0	1517	1518	1503	1493	1482	1479	1485	1506	10- 15	179.5	326.8
20.0	1476	1472	1466	1440	1430	1422	1442	1456	15- 20	242.7	569.5
25.0	1421	1420	1403	1384	1367	1361	1377	1400	20- 25	297.9	867.5
30.0	1355	1352	1340	1311	1289	1286	1311	1331	25- 30	343.1	1211
35.0	1279	1272	1256	1229	1204	1201	1226	1251	30- 35	377.4	1588
40.0	1191	1187	1172	1141	1112	1111	1141	1165	35- 40	398.6	1987
45.0	1093	1084	1066	1037	1008	1007	1035	1063	40- 45	407.0	2394
50.0	981.3	977.7	960.8	933.0	897.0	902.4	928.3	957.6	45- 50	401.7	2796
55.0	867.0	855.3	839.5	812.6	775.1	779.1	810.2	838.0	50- 55	383.0	3179
60.0	740.8	734.3	718.2	693.0	652.0	657.0	692.1	719.6	55- 60	351.5	3530
65.0	613.0	599.8	590.3	568.9	522.0	537.9	567.6	588.2	60- 65	309.3	3839
70.0	480.4	467.7	462.5	444.2	397.2	416.2	443.1	459.9	65- 70	257.9	4097
75.0	354.1	338.2	337.4	320.9	271.6	293.6	323.8	335.9	70- 75	200.4	4298
80.0	229.7	212.2	212.3	205.9	159.7	185.2	204.5	214.6	75- 80	140.1	4438
85.0	119.3	99.82	108.2	100.9	55.80	89.06	104.6	103.8	80- 85	80.68	4519
90.0	17.01	3.974	4.253	4.981	7.164	4.365	4.645	5.709	85- 90	26.91	4546
95.0	2.071	4.763	4.813	4.911	10.74	4.726	4.897	5.117	90- 95	2.623	4548
100.0	3.022	5.359	5.373	5.413	10.80	5.343	5.149	5.113	95-100	2.823	4551
105.0	3.918	5.871	6.045	6.305	10.85	6.069	5.793	5.531	100-105	3.099	4554
110.0	4.869	6.341	6.716	7.241	10.91	6.793	6.436	6.012	105-110	3.360	4557
115.0	5.821	6.871	7.388	8.013	11.02	7.564	7.080	6.497	110-115	3.587	4561
120.0	7.164	7.453	8.060	8.921	11.19	8.335	7.724	7.052	115-120	3.776	4565
125.0	7.668	8.043	8.731	9.701	12.25	8.985	8.367	7.646	120-125	3.911	4569
130.0	9.067	8.776	9.403	10.45	12.42	9.714	9.011	8.151	125-130	4.003	4573
135.0	10.01	9.518	10.07	11.35	13.37	10.29	9.655	8.987	130-135	4.022	4577
140.0	10.97	10.22	10.74	12.05	13.88	11.11	10.29	9.674	135-140	3.954	4581
145.0	11.92	10.98	11.41	12.71	14.38	11.92	10.94	10.46	140-145	3.795	4585
150.0	12.87	11.78	12.09	13.61	14.44	12.30	11.58	11.01	145-150	3.557	4588
155.0	13.37	12.57	12.76	13.90	15.33	13.04	12.23	11.87	150-155	3.231	4591
160.0	14.27	13.39	13.43	14.80	15.39	13.53	12.87	12.80	155-160	2.812	4594
165.0	15.16	13.90	14.10	15.19	15.39	14.06	13.51	13.44	160-165	2.314	4596
170.0	15.22	14.75	14.77	15.92	15.44	14.53	14.16	14.12	165-170	1.734	4598
175.0	16.12	15.64	15.44	16.07	15.44	14.99	14.80	14.99	170-175	1.085	4599
180.0	16.12	16.12	16.12	16.12	15.44	15.44	15.44	15.44	175-180	0.373	4600
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:HOPPO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2019-07-09

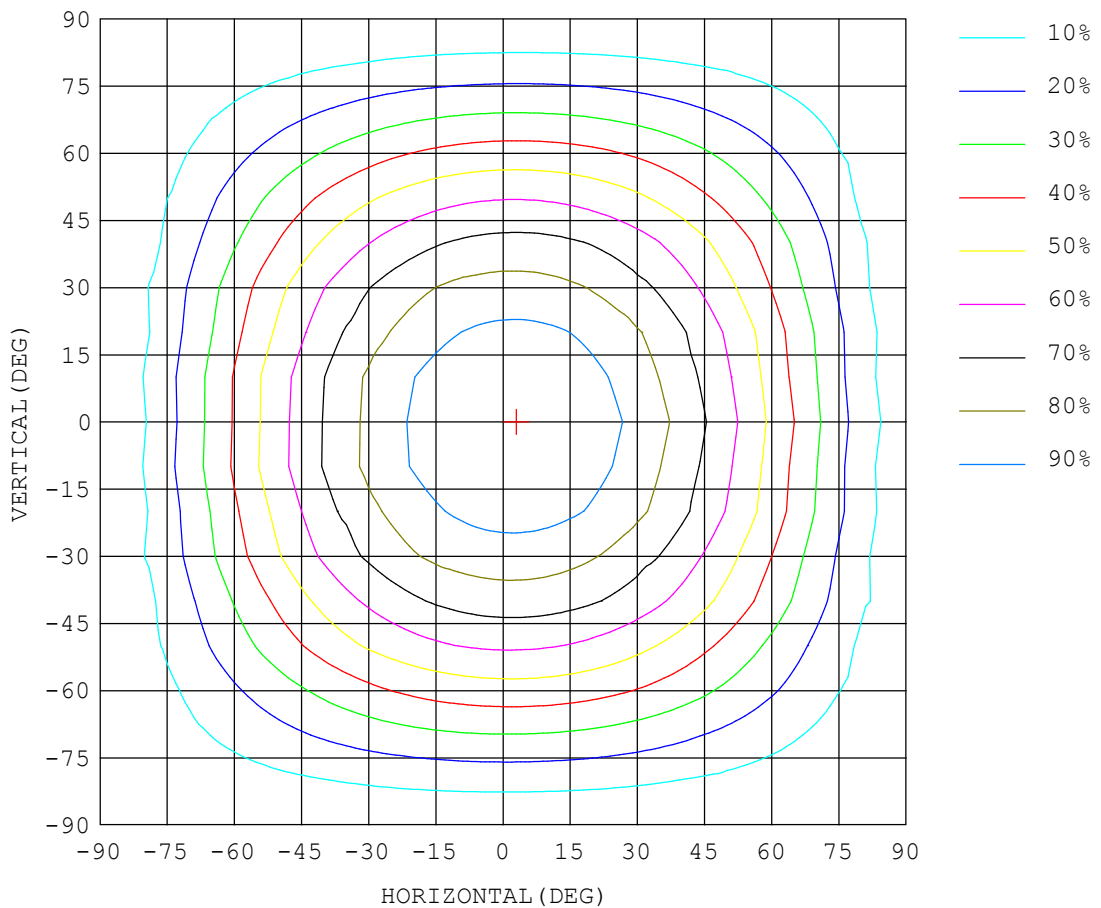
Test Set: 7.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks:

ISOCANDELA DIAGRAM

Report number:

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

UNIT: cd



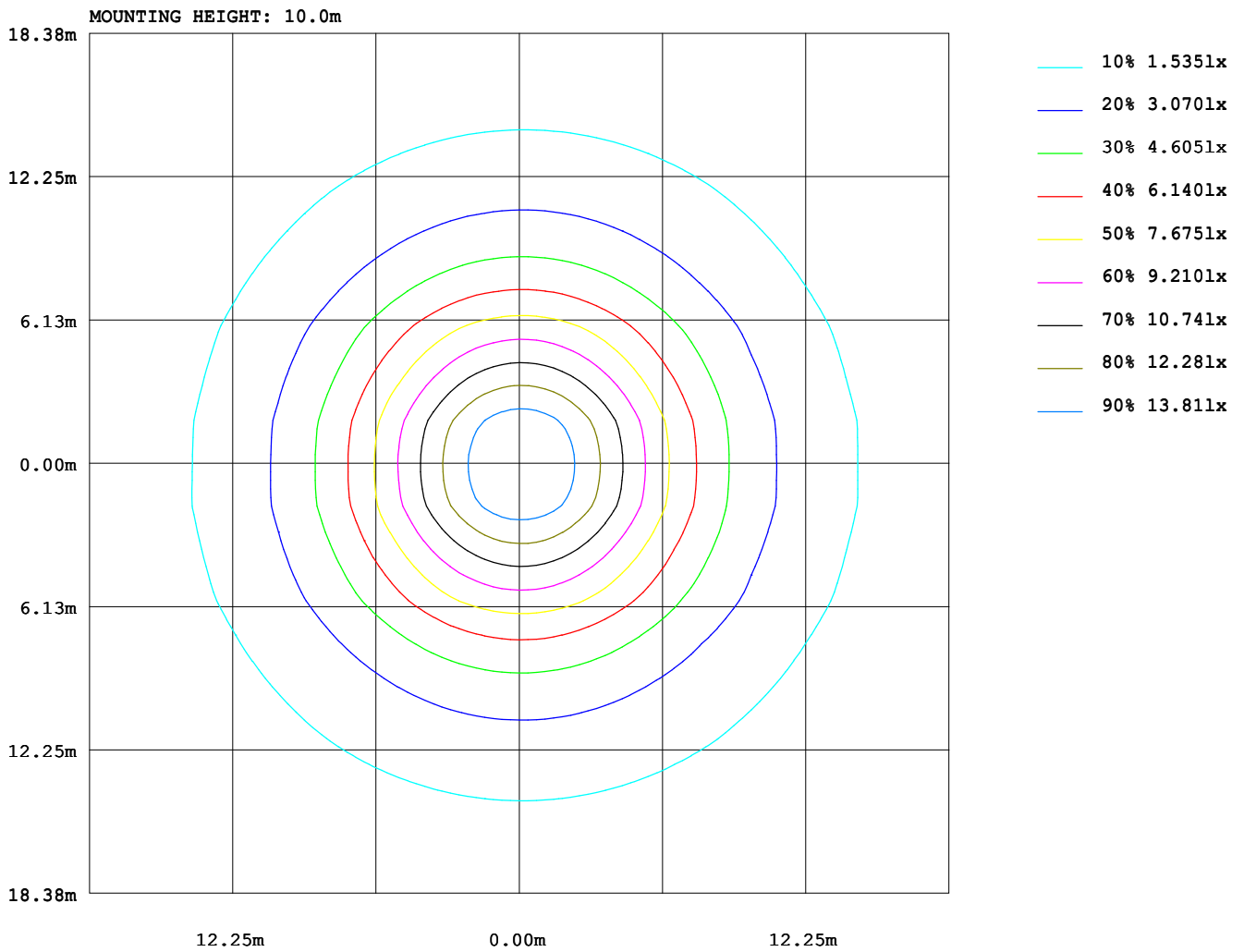
Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2019-07-09

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:2019-07-09

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		Φt	Φa	
VERTICAL (DEG)	90	0.01	0.03	0.05	0.07	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.15	0.15	0.13	0.11	0.08	0.05	0.01	1.68	0.00		
	80	0.02	0.28	1.09	2.33	3.89	5.57	7.12	8.36	9.09	9.23	8.75	7.71	6.27	4.64	2.99	1.59	0.58	0.08	79.6	72.5		
	70	0.05	0.69	2.28	4.60	7.46	10.5	13.3	15.5	16.8	17.0	16.0	14.1	11.4	8.41	5.44	2.91	1.05	0.14	148	146		
	60	0.08	1.01	3.30	6.70	10.9	15.3	19.4	22.6	24.4	24.7	23.3	20.5	16.7	12.2	7.91	4.18	1.57	0.20	215	214		
	50	0.11	1.43	4.37	8.83	14.2	19.9	25.1	29.1	31.4	31.6	29.8	26.2	21.2	15.6	10.0	5.28	1.93	0.23	277	276		
	40	0.12	1.64	5.16	10.4	16.9	23.6	29.8	34.5	37.3	37.7	35.7	31.4	25.6	18.9	12.2	6.47	2.39	0.35	331	330		
	30	0.21	2.06	6.11	12.2	19.5	27.1	33.9	39.2	42.0	42.2	39.7	34.8	28.3	20.8	13.4	7.03	2.55	0.34	372	372		
		0.17	2.02	6.31	12.7	20.5	28.6	35.9	41.7	45.1	45.6	43.1	38.2	31.1	23.0	14.9	7.95	2.94	0.45	401	401		
		0.27	2.30	6.93	13.8	22.0	30.5	38.2	43.9	47.2	47.5	44.7	39.1	31.7	23.3	15.0	7.92	2.87	0.39	418	418		
		0.20	2.15	6.66	13.4	21.6	29.8	37.6	43.7	47.2	47.7	45.1	39.8	32.6	24.1	15.6	8.31	3.06	0.47	420	419		
		0.27	2.29	6.83	13.5	21.5	29.9	37.3	42.9	46.0	46.2	43.5	38.1	30.8	22.5	14.5	7.64	2.75	0.37	408	407		
	-30	0.19	1.95	6.02	12.1	19.5	27.0	34.1	39.6	42.7	43.2	40.9	36.1	29.5	21.8	14.1	7.47	2.76	0.42	380	380		
	-40	0.24	1.94	5.71	11.3	18.0	25.0	31.2	35.9	38.4	38.5	36.2	31.7	25.6	18.8	12.0	6.25	2.24	0.30	340	339		
	-50	0.13	1.49	4.54	9.13	14.7	20.6	25.9	30.1	32.5	32.9	31.0	27.3	22.2	16.3	10.5	5.54	2.04	0.33	288	287		
	-60	0.16	1.33	3.82	7.53	12.0	16.6	20.8	24.0	25.7	25.8	24.2	21.1	16.9	12.3	7.83	4.05	1.45	0.17	226	225		
	-70	0.09	0.83	2.52	4.99	8.04	11.2	14.2	16.5	17.8	18.0	17.0	14.9	12.0	8.83	5.65	2.97	1.11	0.16	157	155		
	-80	0.07	0.56	1.58	3.01	4.74	6.55	8.18	9.42	10.0	10.0	9.42	8.18	6.53	4.71	2.98	1.55	0.53	0.05	88.2	82.0		
	-90	0.01	0.14	0.43	0.83	1.30	1.76	2.19	2.52	2.70	2.70	2.51	2.17	1.73	1.26	0.77	0.38	0.11	0.01	23.5	6.11		
		-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)				20	30	40	50	60	70	80	90		
Φt		2.38	24.1	73.7	148	237	330	415	480	517	521	492	432	351	258	166	87.6	32.0	4.46	4600			
Φa		0.32	19.8	70.1	144	235	328	413	479	516	520	490	431	349	256	164	84.6	28.8	2.22		4480		

Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2019-07-09

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

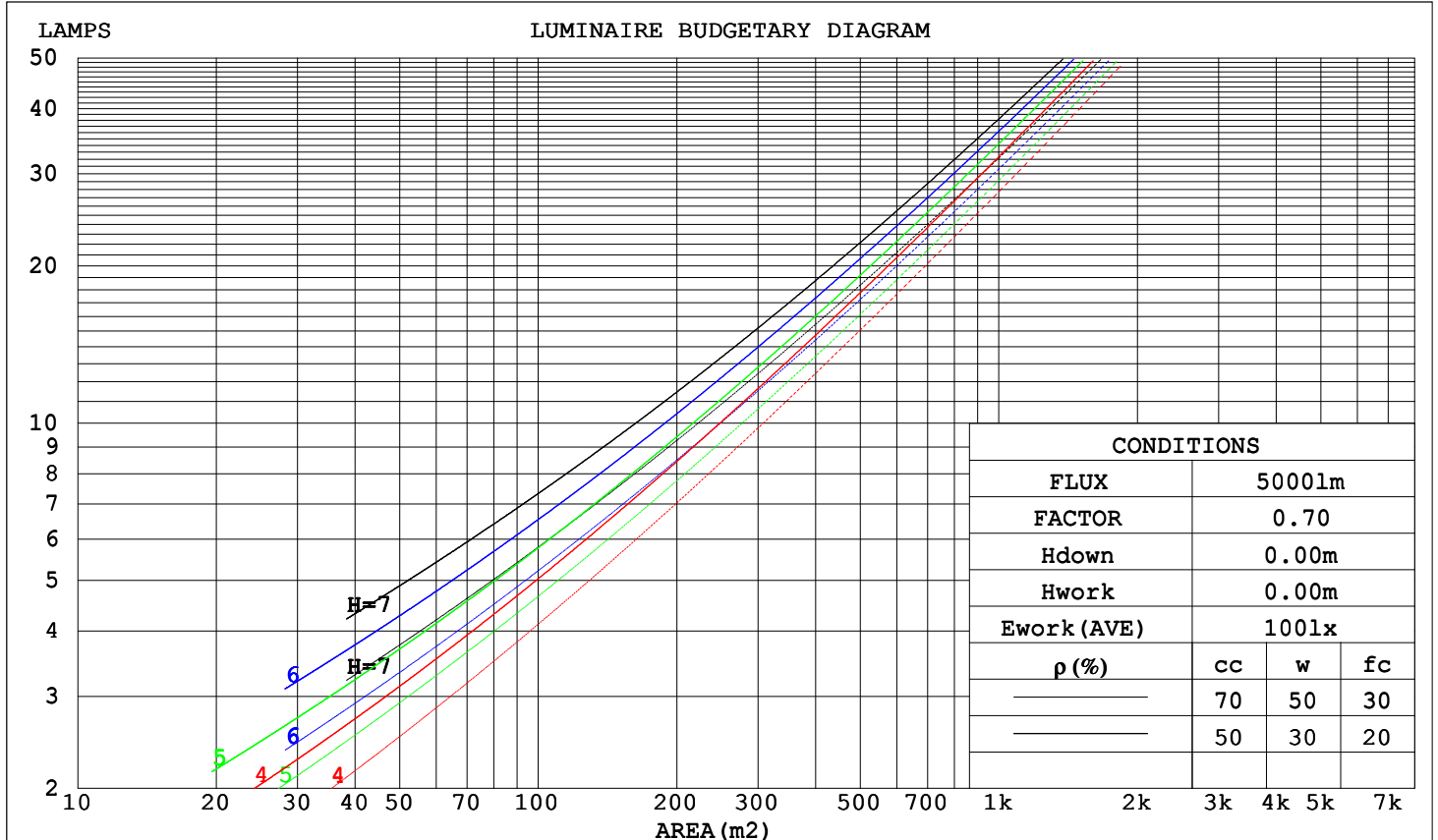
HONGPU GONIOPHOTOMETERS SYSTEM TEST REPORT

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	.00
1.0	1.04	.99	.95	1.02	.97	.94	.97	.94	.91	.93	.90	.88	.89	.87	.85	.83
2.0	.90	.83	.77	.88	.82	.76	.85	.79	.74	.81	.76	.73	.78	.74	.71	.68
3.0	.79	.71	.64	.77	.70	.63	.74	.68	.62	.71	.66	.61	.69	.64	.60	.57
4.0	.70	.61	.54	.69	.60	.54	.66	.59	.53	.63	.57	.52	.61	.56	.51	.49
5.0	.62	.53	.47	.61	.53	.46	.59	.51	.46	.57	.50	.45	.55	.49	.44	.42
6.0	.56	.47	.41	.55	.47	.40	.53	.46	.40	.51	.45	.39	.50	.44	.39	.37
7.0	.51	.42	.36	.50	.42	.36	.48	.41	.35	.47	.40	.35	.45	.39	.35	.32
8.0	.46	.38	.32	.46	.37	.32	.44	.37	.31	.43	.36	.31	.42	.35	.31	.29
9.0	.43	.34	.29	.42	.34	.28	.41	.33	.28	.39	.33	.28	.38	.32	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.38	.31	.26	.37	.30	.25	.36	.30	.25	.23



Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2019-07-09

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:				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 _c	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.319	.182	.058	.312	.178	.057	.298	.171	.055	.285	.164	.053	.273	.158	.051	
2.0	.298	.164	.050	.292	.161	.050	.279	.155	.048	.268	.150	.047	.257	.145	.046	
3.0	.275	.146	.044	.269	.144	.043	.258	.140	.043	.248	.136	.042	.238	.132	.041	
4.0	.253	.132	.039	.248	.130	.038	.238	.126	.038	.229	.123	.037	.221	.120	.037	
5.0	.234	.119	.034	.229	.118	.034	.220	.115	.034	.212	.112	.033	.205	.109	.033	
6.0	.216	.108	.031	.212	.107	.031	.204	.105	.030	.197	.102	.030	.190	.100	.030	
7.0	.201	.099	.028	.198	.098	.028	.191	.096	.028	.184	.094	.027	.178	.092	.027	
8.0	.188	.092	.026	.184	.091	.026	.178	.089	.025	.172	.087	.025	.167	.086	.025	
9.0	.176	.085	.024	.173	.084	.024	.167	.083	.023	.162	.081	.023	.157	.080	.023	
10.0	.165	.079	.022	.163	.079	.022	.157	.077	.022	.153	.076	.022	.148	.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 _c	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0																
1.0	.191	.166	.144	.164	.143	.124	.112	.098	.086	.064	.057	.050	.021	.018	.016	
2.0	.183	.142	.107	.157	.122	.093	.108	.085	.065	.062	.049	.038	.020	.016	.012	
3.0	.175	.124	.084	.150	.107	.072	.103	.075	.051	.060	.044	.030	.019	.014	.010	
4.0	.168	.111	.068	.144	.096	.059	.099	.067	.041	.057	.039	.024	.018	.013	.008	
5.0	.160	.101	.057	.138	.087	.049	.095	.061	.035	.055	.036	.021	.018	.012	.007	
6.0	.153	.092	.049	.131	.080	.042	.091	.056	.030	.053	.033	.018	.017	.011	.006	
7.0	.146	.085	.043	.126	.074	.037	.087	.052	.026	.050	.031	.016	.016	.010	.005	
8.0	.140	.079	.038	.120	.069	.033	.083	.048	.024	.048	.029	.014	.016	.009	.005	
9.0	.133	.074	.035	.115	.065	.030	.080	.045	.021	.046	.027	.013	.015	.009	.004	
10.0	.128	.070	.032	.110	.061	.028	.076	.043	.020	.045	.025	.012	.014	.008	.004	

Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2019-07-09

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	18.0	19.5	18.3	19.7	19.9	17.8	19.3	18.1	19.6	19.8
3H	19.6	21.0	19.9	21.3	21.5	19.4	20.8	19.7	21.1	21.3
4H	20.3	21.6	20.6	21.9	22.2	20.1	21.4	20.4	21.7	22.0
6H	20.8	22.1	21.2	22.4	22.7	20.6	21.9	21.0	22.2	22.5
8H	21.0	22.3	21.4	22.6	22.9	20.8	22.0	21.2	22.3	22.6
12H	21.2	22.4	21.6	22.7	23.0	20.9	22.1	21.3	22.4	22.8
4H 2H	18.6	19.9	18.9	20.2	20.5	18.5	19.8	18.8	20.1	20.4
3H	20.4	21.6	20.8	21.9	22.2	20.2	21.4	20.6	21.7	22.1
4H	21.2	22.3	21.6	22.6	23.0	21.1	22.1	21.4	22.5	22.8
6H	21.9	22.8	22.3	23.2	23.6	21.7	22.7	22.1	23.0	23.4
8H	22.1	23.0	22.6	23.4	23.8	22.0	22.8	22.4	23.2	23.6
12H	22.4	23.2	22.8	23.6	24.0	22.2	23.0	22.6	23.4	23.8
8H 4H	21.5	22.4	21.9	22.8	23.2	21.4	22.2	21.8	22.6	23.0
6H	22.3	23.1	22.8	23.5	23.9	22.2	22.9	22.6	23.3	23.8
8H	22.7	23.3	23.1	23.8	24.2	22.5	23.2	23.0	23.6	24.1
12H	23.0	23.5	23.5	24.0	24.5	22.8	23.4	23.3	23.9	24.4
12H 4H	21.5	22.3	22.0	22.7	23.2	21.4	22.2	21.8	22.6	23.0
6H	22.4	23.0	22.9	23.5	24.0	22.2	22.9	22.7	23.3	23.8
8H	22.8	23.3	23.3	23.8	24.3	22.6	23.2	23.1	23.7	24.2

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 4567 lm Total Lamp Luminous Flux. (8log(F/F0) = 5.3)

Test System:HOPPO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2019-07-09

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:	TYPE:	WEIGHT:	
SPECIFICATION:	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	45	38	31
0.80	67	55	48	66	55	48	64	54	47	40
1.00	76	64	57	74	64	56	72	65	56	48
1.25	83	72	65	81	71	64	78	70	63	56
1.50	88	78	70	86	77	70	83	75	69	61
2.00	95	86	79	93	85	78	89	82	77	69
2.50	99	91	84	97	89	84	93	86	82	73
3.00	102	95	89	100	93	88	96	90	86	77
4.00	106	100	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			

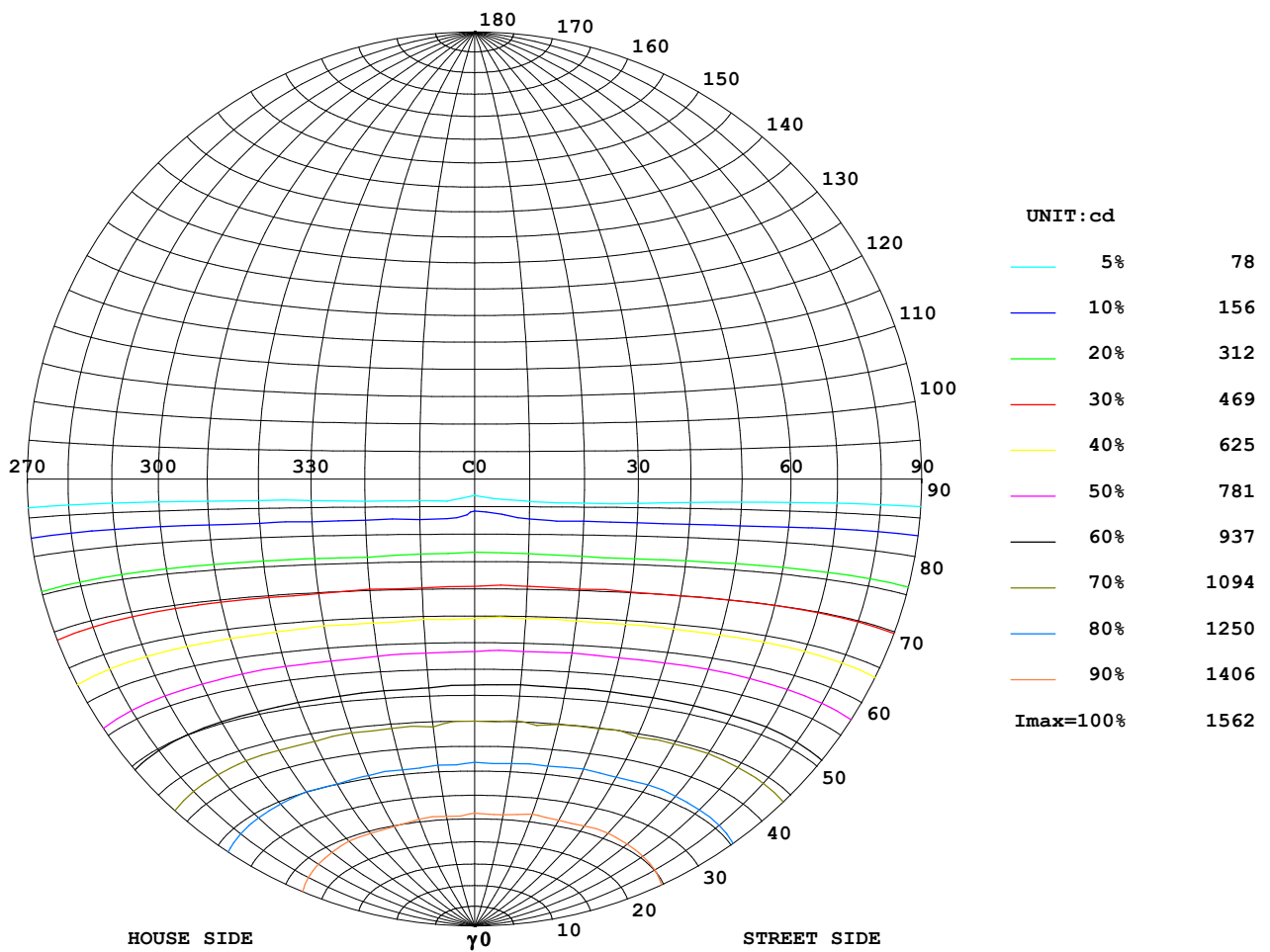
Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2019-07-09

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:2019-07-09

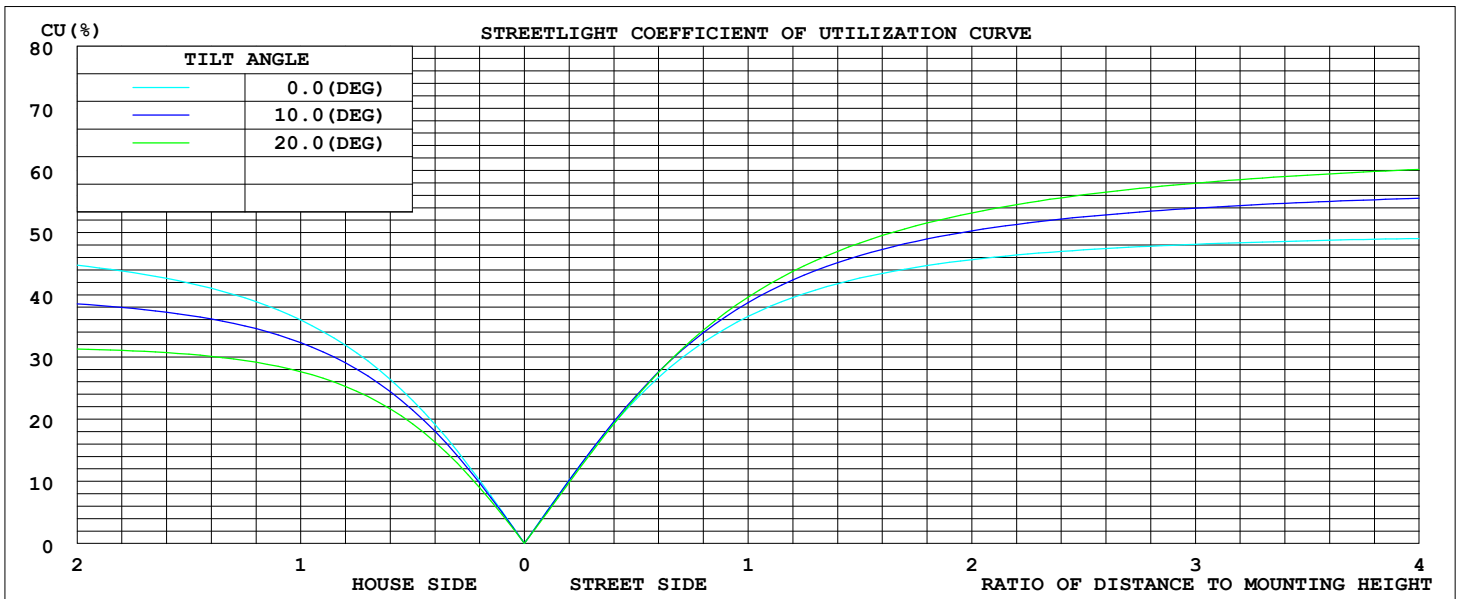
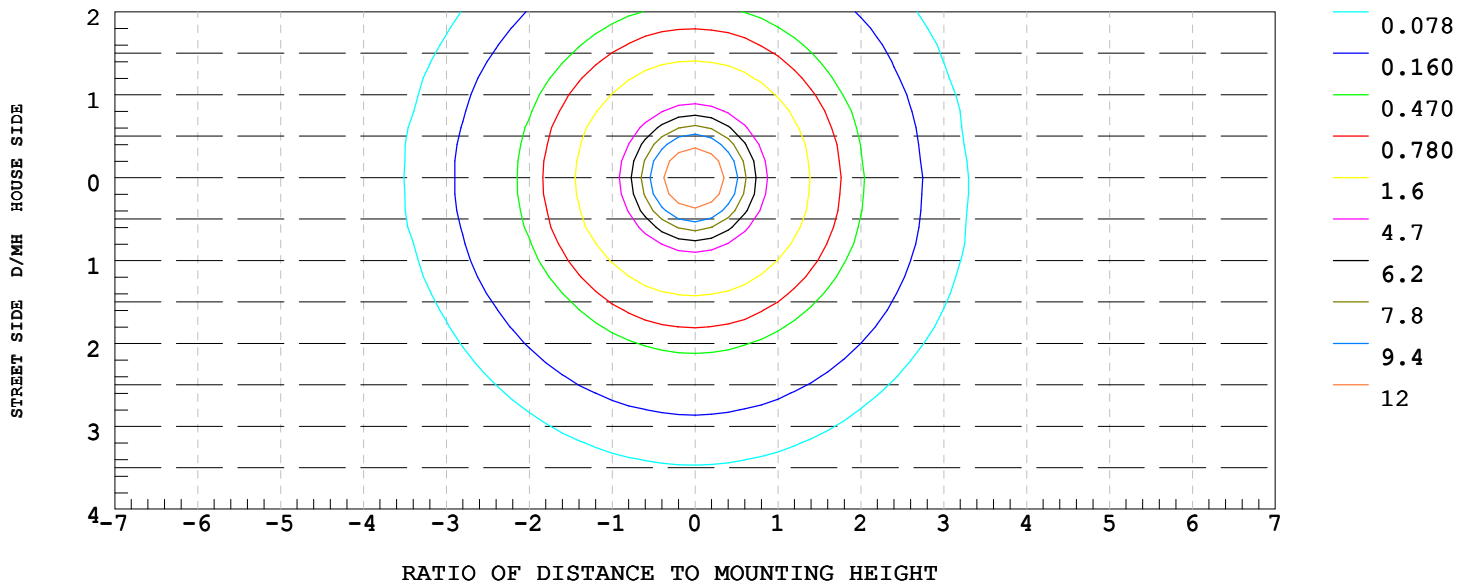
Test Set: 7.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks:

ISOLUX DIAGRAM

Report number:

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

ILLUMINANCE AT MH=10 m, Enadir = 15.61 lx



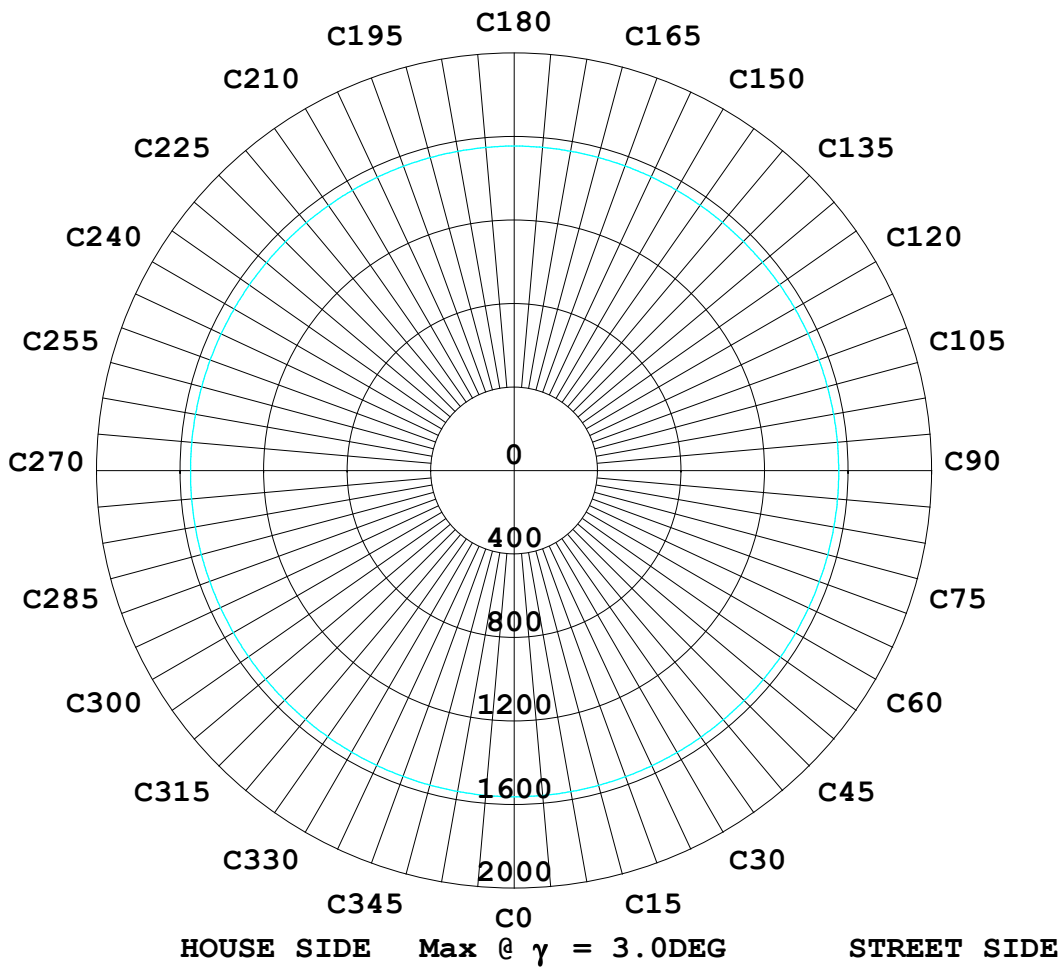
Test System:HOPPO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2019-07-09

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:2019-07-09

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:

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

UNIT: cd

γ (DEG)	C (DEG)														
	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70
0.0	1561	1561	1561	1561	1561	1561	1561	1561	1561	1561	1561	1561	1561	1561	1561
5.0	1560	1559	1559	1558	1557	1557	1556	1556	1555	1555	1555	1554	1554	1553	1553
10.0	1546	1544	1543	1542	1541	1541	1541	1541	1542	1543	1543	1543	1543	1543	1543
15.0	1517	1515	1514	1513	1514	1515	1516	1518	1520	1518	1516	1514	1513	1511	1509
20.0	1476	1473	1473	1473	1475	1478	1481	1477	1474	1472	1471	1471	1471	1470	1470
25.0	1421	1419	1418	1420	1424	1424	1421	1420	1420	1420	1422	1419	1417	1414	1411
30.0	1355	1353	1354	1358	1360	1355	1353	1355	1358	1352	1350	1348	1347	1347	1346
35.0	1279	1277	1280	1282	1278	1279	1282	1283	1273	1272	1273	1275	1271	1268	1265
40.0	1191	1188	1191	1191	1189	1192	1191	1181	1188	1187	1182	1180	1179	1178	1177
45.0	1093	1091	1098	1087	1091	1091	1091	1094	1083	1084	1083	1083	1082	1078	1075
50.0	981	983	988	982	981	983	985	979	976	978	974	971	969	969	967
55.0	867	868	867	867	866	868	861	861	858	855	855	857	854	851	848
60.0	741	748	741	740	744	738	735	734	734	734	730	728	725	724	723
65.0	613	620	614	618	608	607	606	606	602	600	598	598	597	596	595
70.0	480	486	482	478	474	476	471	469	467	468	467	467	467	467	466
75.0	354	354	354	344	344	339	337	338	338	338	339	339	339	339	339
80.0	230	231	222	217	212	214	213	212	212	212	212	212	212	212	212
85.0	119	106	98.0	95.3	94.1	91.8	90.3	94.0	96.6	99.8	102	103	105	106	107
90.0	17.0	3.91	3.91	3.91	3.97	3.91	3.97	3.97	3.97	3.97	3.97	3.97	4.03	4.03	4.08
95.0	2.07	3.64	4.45	4.76	4.88	4.94	4.93	4.86	4.79	4.76	4.73	4.72	4.74	4.73	4.73
100.0	3.02	3.66	4.41	4.73	4.99	5.12	5.21	5.28	5.33	5.35	5.37	5.38	5.40	5.39	5.38
105.0	3.91	4.16	4.60	5.07	5.21	5.41	5.51	5.62	5.74	5.87	5.87	5.90	5.94	5.95	5.97
110.0	4.86	5.08	5.25	5.37	5.54	5.77	5.88	6.12	6.29	6.34	6.40	6.45	6.47	6.56	6.58
115.0	5.82	5.70	5.86	6.03	6.10	6.25	6.38	6.57	6.84	6.87	6.92	7.00	7.11	7.17	7.23
120.0	7.16	6.79	6.56	6.61	6.66	6.82	7.15	7.26	7.37	7.45	7.49	7.65	7.75	7.77	7.85
125.0	7.66	7.44	7.33	7.37	7.65	7.57	7.83	7.90	8.08	8.04	8.12	8.16	8.32	8.41	8.45
130.0	9.06	8.87	8.85	8.35	8.64	8.68	8.57	8.72	8.55	8.77	8.83	9.04	9.01	9.00	9.19
135.0	10.0	9.80	9.75	9.82	9.37	9.34	9.35	9.30	9.43	9.51	9.53	9.60	9.69	9.76	9.84
140.0	10.9	10.7	10.6	10.4	10.2	10.0	10.0	10.0	10.1	10.2	10.2	10.2	10.3	10.3	10.5
145.0	11.9	11.6	11.3	11.1	11.1	10.9	11.0	10.7	11.1	10.9	10.9	10.9	11.0	11.1	11.1
150.0	12.8	12.5	12.3	12.0	11.8	11.9	11.9	11.7	11.8	11.7	11.6	11.7	11.8	11.8	11.7
155.0	13.3	13.1	13.0	13.0	13.0	12.8	12.6	12.5	12.4	12.5	12.4	12.5	12.5	12.4	12.6
160.0	14.2	14.0	13.8	13.6	13.5	13.6	13.5	13.3	13.4	13.3	13.3	13.1	13.1	13.3	13.2
165.0	15.1	15.0	14.8	14.6	14.5	14.3	14.2	14.1	14.0	13.9	13.9	14.0	13.9	13.9	14.1
170.0	15.2	15.1	15.0	15.0	15.0	15.1	15.0	14.9	14.8	14.7	14.6	14.7	14.9	14.9	14.8
175.0	16.1	16.0	16.0	15.9	15.8	15.8	15.7	15.7	15.6	15.6	15.6	15.5	15.5	15.5	15.4
180.0	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1

Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2019-07-09

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:

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

UNIT: cd

γ (DEG)	C (DEG)														
	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145
0.0	1561	1561	1561	1561	1561	1561	1561	1561	1561	1561	1561	1561	1561	1561	1561
5.0	1552	1552	1551	1551	1550	1550	1549	1549	1548	1548	1547	1547	1546	1546	1546
10.0	1543	1543	1542	1541	1540	1539	1537	1535	1533	1531	1529	1527	1525	1523	1522
15.0	1508	1506	1505	1503	1502	1501	1499	1498	1496	1495	1494	1493	1493	1492	1488
20.0	1469	1469	1467	1466	1464	1461	1459	1456	1452	1449	1446	1443	1440	1439	1438
25.0	1409	1407	1405	1403	1401	1399	1397	1394	1393	1392	1391	1390	1384	1378	1375
30.0	1345	1344	1342	1340	1338	1334	1331	1327	1325	1321	1317	1314	1311	1311	1305
35.0	1263	1260	1258	1256	1253	1251	1248	1246	1245	1243	1242	1235	1229	1225	1224
40.0	1177	1175	1173	1172	1169	1166	1161	1158	1154	1149	1146	1142	1141	1135	1129
45.0	1073	1071	1068	1066	1064	1061	1058	1056	1054	1051	1048	1043	1037	1033	1030
50.0	966	965	963	961	958	955	951	947	943	940	936	934	933	926	920
55.0	846	844	842	840	837	835	832	830	828	825	822	817	813	811	807
60.0	722	721	720	718	716	714	711	709	705	702	699	695	693	688	683
65.0	594	593	592	590	589	587	585	583	581	579	576	573	569	564	559
70.0	465	464	464	463	461	460	458	456	454	452	449	447	444	442	437
75.0	339	338	338	337	337	336	334	333	331	329	326	324	321	318	315
80.0	212	212	212	212	212	212	212	211	211	210	209	208	206	204	200
85.0	107	108	108	108	108	108	107	107	106	105	104	103	101	99.3	95.8
90.0	4.08	4.14	4.19	4.25	4.36	4.47	4.58	4.70	4.81	4.92	4.98	5.03	4.98	4.98	4.98
95.0	4.72	4.76	4.78	4.81	4.84	4.90	4.93	4.96	4.99	5.02	5.01	5.00	4.91	4.85	4.75
100.0	5.35	5.39	5.37	5.37	5.32	5.33	5.31	5.29	5.31	5.30	5.33	5.37	5.41	5.47	5.59
105.0	5.99	6.02	6.05	6.04	6.05	6.05	6.06	6.06	6.10	6.10	6.17	6.22	6.30	6.42	6.58
110.0	6.62	6.67	6.72	6.71	6.78	6.79	6.81	6.82	6.86	6.93	6.96	7.09	7.24	7.37	7.55
115.0	7.28	7.34	7.39	7.38	7.49	7.54	7.55	7.55	7.61	7.71	7.80	7.90	8.01	8.12	8.45
120.0	7.94	7.99	8.07	8.06	8.20	8.28	8.29	8.27	8.42	8.50	8.61	8.79	8.92	9.21	9.39
125.0	8.56	8.64	8.74	8.73	8.89	9.01	8.96	9.10	9.23	9.27	9.41	9.49	9.70	10.0	10.3
130.0	9.18	9.29	9.41	9.40	9.58	9.74	9.71	9.88	9.96	9.97	10.1	10.3	10.4	10.7	11.1
135.0	9.80	9.93	10.0	10.0	10.2	10.4	10.4	10.6	10.5	10.8	10.8	11.1	11.3	11.4	11.7
140.0	10.5	10.5	10.7	10.7	10.9	11.2	11.1	11.2	11.4	11.5	11.6	11.9	12.0	12.3	12.4
145.0	11.2	11.2	11.4	11.4	11.6	11.9	12.0	11.9	12.1	12.1	12.5	12.5	12.7	12.9	13.2
150.0	11.9	12.1	12.1	12.0	12.3	12.6	12.7	12.5	12.6	13.0	13.0	13.3	13.6	13.5	13.8
155.0	12.5	12.8	12.7	12.7	13.0	13.1	13.4	13.5	13.3	13.4	13.8	14.0	13.9	14.3	14.6
160.0	13.4	13.4	13.4	13.4	13.7	13.8	14.1	14.2	14.3	14.1	14.3	14.5	14.8	14.9	15.0
165.0	14.1	14.1	14.1	14.1	14.4	14.4	14.5	14.9	14.9	15.0	15.1	15.0	15.1	15.3	15.3
170.0	14.8	14.7	14.7	14.7	15.1	15.1	15.2	15.2	15.3	15.6	15.7	15.8	15.9	16.0	16.1
175.0	15.4	15.4	15.4	15.4	15.6	15.8	15.8	15.9	15.9	15.9	15.9	16.0	16.0	16.1	16.2
180.0	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1

Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2019-07-09

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:

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

UNIT: cd

C (DEG) \ γ (DEG)	150	155	160	165	170	175	180	185	190	195	200	205	210	215	220
0.0	1561	1561	1561	1561	1561	1561	1561	1561	1561	1561	1561	1561	1561	1561	1561
5.0	1546	1546	1546	1547	1547	1548	1549	1547	1546	1545	1544	1543	1542	1542	1542
10.0	1520	1519	1519	1519	1519	1520	1522	1519	1517	1515	1514	1514	1514	1514	1514
15.0	1484	1482	1480	1479	1479	1480	1482	1478	1475	1473	1473	1473	1474	1475	1479
20.0	1439	1435	1431	1428	1427	1427	1430	1425	1422	1420	1421	1423	1424	1422	1422
25.0	1372	1372	1369	1365	1363	1363	1367	1360	1357	1355	1357	1358	1357	1356	1357
30.0	1300	1297	1304	1310	1295	1288	1289	1284	1283	1286	1298	1283	1281	1284	1287
35.0	1221	1214	1211	1211	1204	1202	1204	1197	1195	1198	1195	1195	1199	1200	1199
40.0	1125	1118	1119	1115	1109	1106	1112	1101	1099	1100	1101	1107	1095	1103	1107
45.0	1024	1021	1019	1011	1007	1003	1008	996	995	995	999	1000	999	1003	1004
50.0	916	909	908	902	894	891	897	884	881	885	887	884	889	891	896
55.0	798	792	788	787	776	769	775	761	762	769	765	767	771	779	780
60.0	683	672	665	660	655	645	652	636	640	641	642	646	655	651	654
65.0	554	551	543	533	532	517	522	507	517	513	519	524	522	525	531
70.0	431	424	420	410	402	393	397	383	386	390	395	393	400	409	415
75.0	313	308	298	294	282	276	272	267	266	272	271	283	287	289	291
80.0	196	194	192	184	175	167	160	163	154	162	169	170	171	177	181
85.0	93.9	91.8	88.7	84.0	80.6	68.5	55.8	41.1	53.2	59.9	68.4	73.7	76.2	81.0	85.1
90.0	5.03	5.09	5.09	4.98	4.86	4.86	7.16	4.14	4.14	4.14	4.19	4.19	4.30	4.30	4.36
95.0	4.61	4.73	4.97	5.43	6.46	9.10	10.7	7.16	5.50	4.87	4.58	4.47	4.49	4.61	4.71
100.0	5.75	6.02	6.50	7.27	8.72	11.2	10.8	8.64	7.11	6.09	5.66	5.42	5.35	5.34	5.35
105.0	6.83	7.21	7.83	8.70	9.95	11.9	10.8	9.34	7.88	7.07	6.66	6.35	6.23	6.17	6.15
110.0	7.79	8.25	8.91	9.77	10.8	12.4	10.9	9.59	8.58	8.05	7.50	7.14	7.07	6.96	6.94
115.0	8.82	9.14	9.78	10.5	11.5	12.6	11.0	10.1	9.36	8.75	8.24	8.19	7.95	7.90	7.68
120.0	9.65	10.1	10.5	11.2	12.0	13.2	11.1	10.4	9.87	9.60	9.22	8.99	8.84	8.61	8.39
125.0	10.5	10.8	11.4	12.0	12.5	13.2	12.2	11.4	10.7	10.4	10.0	9.99	9.59	9.25	9.32
130.0	11.5	11.4	12.3	12.6	13.2	13.9	12.4	11.9	11.7	11.4	11.0	10.5	10.2	10.2	9.76
135.0	12.1	12.3	13.1	13.3	13.6	14.4	13.3	12.8	12.3	11.8	11.5	11.3	11.1	10.7	10.5
140.0	13.0	13.1	13.6	14.0	14.5	14.8	13.8	13.4	13.2	12.8	12.1	11.8	11.7	11.6	11.2
145.0	13.5	13.8	14.0	14.6	15.1	15.3	14.3	13.9	13.5	13.1	12.9	12.8	12.2	12.1	11.9
150.0	14.2	14.4	14.7	15.1	15.4	15.8	14.4	14.1	13.9	13.8	13.5	13.2	13.0	12.9	12.4
155.0	14.7	14.8	15.1	15.4	15.9	16.4	15.3	15.0	14.7	14.4	13.9	13.5	13.3	13.3	13.2
160.0	15.0	15.2	15.7	16.0	16.3	16.5	15.3	15.1	14.9	14.6	14.4	14.2	14.0	13.8	13.6
165.0	15.7	15.9	16.1	16.3	16.5	16.7	15.3	15.2	15.0	14.8	14.7	14.5	14.4	14.3	14.1
170.0	16.2	16.3	16.2	16.2	16.3	16.4	15.4	15.3	15.2	15.1	15.0	14.8	14.7	14.7	14.6
175.0	16.3	16.4	16.5	16.7	16.8	16.8	15.4	15.3	15.3	15.2	15.2	15.1	15.1	15.0	15.0
180.0	16.1	16.1	16.1	16.1	16.1	16.1	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4

Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2019-07-09

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:

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

UNIT: cd

C (DEG) \ γ (DEG)	225	230	235	240	245	250	255	260	265	270	275	280	285	290	295
0.0	1561	1561	1561	1561	1561	1561	1561	1561	1561	1561	1561	1561	1561	1561	1561
5.0	1542	1542	1542	1542	1542	1542	1543	1543	1544	1545	1545	1545	1546	1547	1547
10.0	1516	1517	1518	1519	1521	1523	1524	1525	1527	1528	1529	1530	1531	1531	1532
15.0	1479	1478	1478	1478	1479	1480	1481	1482	1484	1485	1487	1488	1490	1492	1494
20.0	1422	1423	1425	1427	1430	1433	1436	1438	1440	1442	1444	1446	1447	1448	1449
25.0	1361	1365	1366	1366	1367	1369	1370	1372	1374	1377	1379	1381	1384	1387	1390
30.0	1286	1287	1290	1293	1296	1301	1303	1304	1308	1311	1313	1316	1318	1319	1321
35.0	1201	1205	1212	1213	1215	1217	1219	1220	1223	1226	1229	1232	1235	1238	1241
40.0	1111	1112	1114	1118	1122	1126	1130	1134	1138	1141	1144	1146	1148	1150	1151
45.0	1007	1012	1017	1019	1021	1023	1025	1028	1031	1035	1038	1042	1045	1048	1052
50.0	902	901	903	905	908	912	916	921	924	928	932	935	938	940	943
55.0	779	782	786	789	793	797	800	804	807	810	814	817	820	824	827
60.0	657	661	666	671	675	679	683	686	689	692	695	697	699	702	704
65.0	538	543	547	551	553	556	559	562	565	568	570	573	575	578	580
70.0	416	420	422	425	428	431	434	438	440	443	446	448	450	453	454
75.0	294	297	302	307	310	314	317	319	322	324	326	328	329	331	332
80.0	185	189	192	194	196	198	200	202	203	205	206	207	208	210	210
85.0	89.0	92.1	94.4	96.5	98.5	100	102	103	104	105	105	106	106	106	106
90.0	4.36	4.30	4.25	4.25	4.25	4.30	4.42	4.47	4.53	4.64	4.81	5.03	5.14	5.26	5.37
95.0	4.72	4.70	4.69	4.70	4.68	4.72	4.76	4.81	4.84	4.89	4.98	5.06	5.11	5.17	5.18
100.0	5.34	5.26	5.23	5.21	5.16	5.17	5.13	5.16	5.15	5.14	5.15	5.12	5.13	5.16	5.13
105.0	6.06	6.01	5.93	5.92	5.87	5.85	5.80	5.82	5.80	5.79	5.77	5.75	5.72	5.72	5.68
110.0	6.79	6.71	6.65	6.61	6.56	6.53	6.46	6.47	6.44	6.43	6.40	6.39	6.34	6.28	6.27
115.0	7.56	7.41	7.40	7.29	7.21	7.20	7.14	7.12	7.09	7.08	7.04	7.03	6.98	6.83	6.85
120.0	8.33	8.15	8.02	8.00	7.86	7.87	7.83	7.77	7.73	7.72	7.69	7.65	7.66	7.48	7.36
125.0	8.98	8.97	8.79	8.76	8.61	8.52	8.48	8.42	8.38	8.36	8.36	8.27	8.21	8.08	7.99
130.0	9.71	9.56	9.43	9.29	9.31	9.18	9.13	9.06	9.02	9.01	9.02	8.89	8.79	8.64	8.58
135.0	10.2	10.2	10.2	9.97	9.96	9.82	9.78	9.71	9.66	9.65	9.66	9.51	9.44	9.41	9.24
140.0	11.1	11.1	10.6	10.7	10.5	10.5	10.4	10.3	10.3	10.2	10.3	10.1	10.1	10.1	9.87
145.0	11.9	11.4	11.5	11.3	11.2	11.1	11.0	10.9	10.9	10.9	10.9	10.7	10.8	10.6	10.6
150.0	12.3	12.3	12.1	11.9	11.8	11.7	11.6	11.6	11.5	11.5	11.5	11.3	11.4	11.4	11.3
155.0	13.0	12.8	12.7	12.6	12.4	12.4	12.3	12.2	12.2	12.2	12.2	12.2	12.0	12.0	12.0
160.0	13.5	13.4	13.3	13.1	13.0	13.0	12.9	12.9	12.8	12.8	12.8	12.9	12.6	12.6	12.7
165.0	14.0	13.9	13.8	13.7	13.6	13.6	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.2	13.3
170.0	14.5	14.4	14.3	14.3	14.2	14.2	14.2	14.1	14.1	14.1	14.1	14.1	14.2	14.2	14.1
175.0	14.9	14.9	14.9	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8
180.0	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4

Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2019-07-09

Test Set: 7.0deg/s B-Beta (TYPE B)
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 Remarks:

HONGPU GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

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

UNIT: cd

γ (DEG)	C (DEG)											
	300	305	310	315	320	325	330	335	340	345	350	355
0.0	1561	1561	1561	1561	1561	1561	1561	1561	1561	1561	1561	1561
5.0	1548	1549	1550	1550	1551	1552	1553	1554	1555	1556	1558	1559
10.0	1532	1532	1533	1533	1534	1534	1535	1536	1537	1539	1541	1543
15.0	1497	1499	1502	1506	1509	1508	1507	1507	1508	1509	1511	1514
20.0	1450	1452	1454	1456	1459	1463	1469	1468	1467	1467	1468	1471
25.0	1393	1397	1400	1400	1402	1404	1407	1413	1416	1413	1414	1416
30.0	1322	1325	1328	1331	1337	1337	1339	1346	1349	1350	1349	1350
35.0	1246	1251	1250	1251	1255	1260	1265	1264	1267	1273	1274	1274
40.0	1154	1156	1159	1165	1167	1170	1173	1176	1176	1182	1185	1185
45.0	1057	1060	1060	1063	1069	1076	1074	1076	1078	1081	1092	1088
50.0	945	948	952	958	957	962	969	968	969	973	981	981
55.0	832	836	837	838	841	845	847	855	855	857	861	866
60.0	707	710	714	720	721	722	724	728	735	732	736	746
65.0	581	584	585	588	592	598	599	599	601	612	608	619
70.0	456	458	459	460	460	463	468	474	472	475	479	485
75.0	333	334	335	336	337	337	336	339	346	345	353	353
80.0	212	213	214	215	216	216	218	219	216	222	225	232
85.0	106	105	105	104	105	101	98.7	101	103	105	96.2	97.9
90.0	5.48	5.54	5.65	5.70	5.82	5.82	5.82	5.65	5.54	5.42	5.26	4.92
95.0	5.19	5.17	5.17	5.11	5.08	4.91	4.67	4.54	4.41	4.25	3.95	3.32
100.0	5.11	5.12	5.12	5.11	5.10	5.02	4.88	4.72	4.40	4.15	3.77	3.15
105.0	5.63	5.61	5.58	5.53	5.50	5.37	5.12	4.90	4.68	4.40	3.89	3.60
110.0	6.19	6.10	6.04	6.01	5.95	5.72	5.51	5.32	5.20	4.77	4.25	4.26
115.0	6.72	6.63	6.59	6.49	6.46	6.33	6.10	5.76	5.58	5.23	5.24	5.10
120.0	7.29	7.23	7.09	7.05	6.96	6.83	6.71	6.52	6.16	5.96	5.93	5.86
125.0	7.92	7.88	7.70	7.64	7.46	7.56	7.35	7.33	6.96	7.05	6.74	6.81
130.0	8.59	8.42	8.34	8.15	8.25	8.02	8.07	8.14	8.09	8.03	7.93	7.87
135.0	9.09	9.15	9.03	8.98	8.73	8.85	8.81	8.76	8.87	8.90	9.13	9.16
140.0	9.77	9.67	9.69	9.67	9.60	9.54	9.46	9.66	9.58	9.71	9.74	10.0
145.0	10.5	10.4	10.3	10.4	10.3	10.5	10.4	10.3	10.3	10.4	10.6	10.9
150.0	11.2	11.2	11.0	11.0	11.2	11.1	11.1	11.2	11.5	11.4	11.6	11.8
155.0	12.0	12.0	11.8	11.8	11.8	11.9	11.8	12.2	12.4	12.3	12.3	12.4
160.0	12.7	12.6	12.9	12.8	12.5	12.7	12.8	12.6	12.8	13.0	13.2	13.4
165.0	13.3	13.4	13.5	13.4	13.4	13.6	13.9	13.9	13.8	13.8	13.8	13.9
170.0	13.9	13.9	14.0	14.1	14.2	14.2	14.3	14.4	14.5	14.6	14.7	14.8
175.0	14.8	14.9	14.9	14.9	15.0	15.0	14.9	14.9	14.9	14.9	14.9	14.9
180.0	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4

Test System:HOPOO HPG1900
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Test Set: 7.0deg/s B-Beta (TYPE B)
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