

HONGPU GONIOPHOTOMETERS SYSTEM TEST REPORT

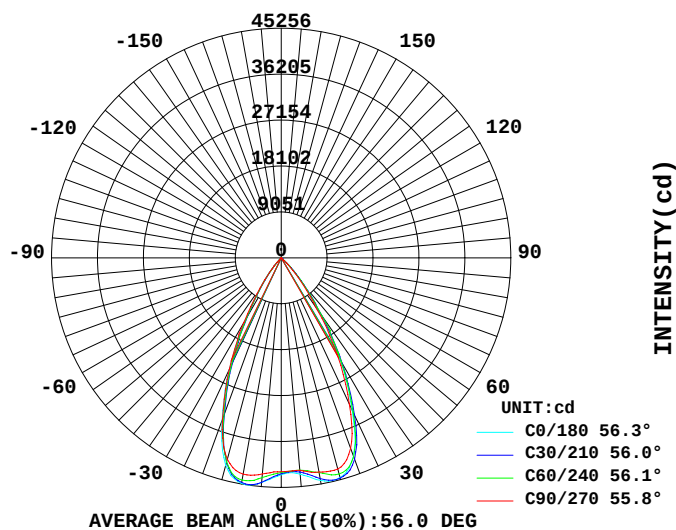
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

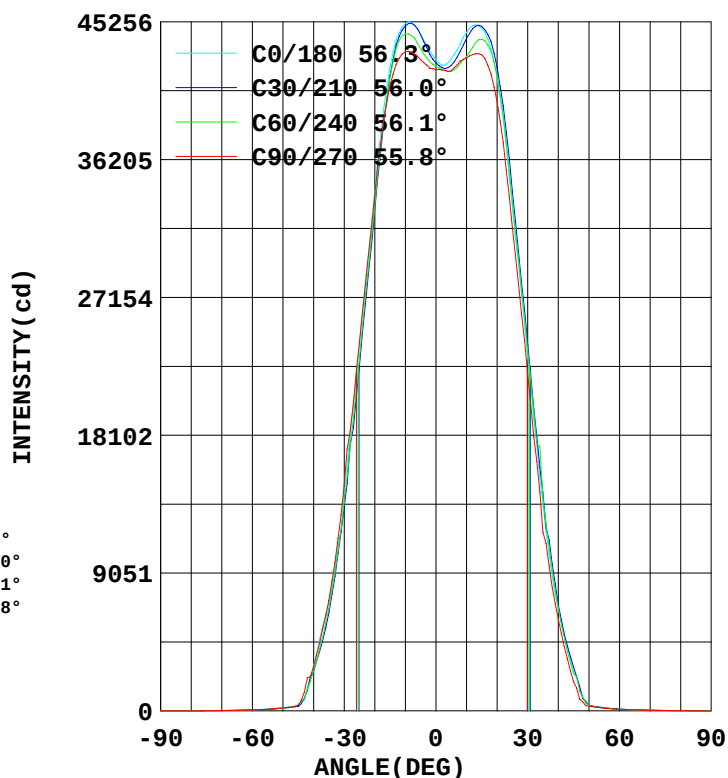
MANUFACTURER:	Address:	
NAME:	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

DATA OF LAMP		Imax(cd)	45256	S/MH(C0/180)	0.79
MODEL		EFFICIENCY(%)	100.0	S/MH(C90/270)	0.80
NOMINAL POWER(W)	300	TOTAL FLUX(lm)	36834	Voltage(V)	218.3
RATED VOLTAGE(V)	220	EFFICIENCY(lm/W)	122.3	Current(A)	1.415
NOMINAL FLUX(lm)	36834.3	η up(%)	0.0	Power(W)	301.1
LAMPS QUANTITY	1	η down(%)	100.0	Power Factor(PF)	0.974
TEST VOLTAGE(V)	218.3	Effective Flux(lm)	36834.3	EEI	0.111

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



Test System:HOP00 HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2018年10月09日

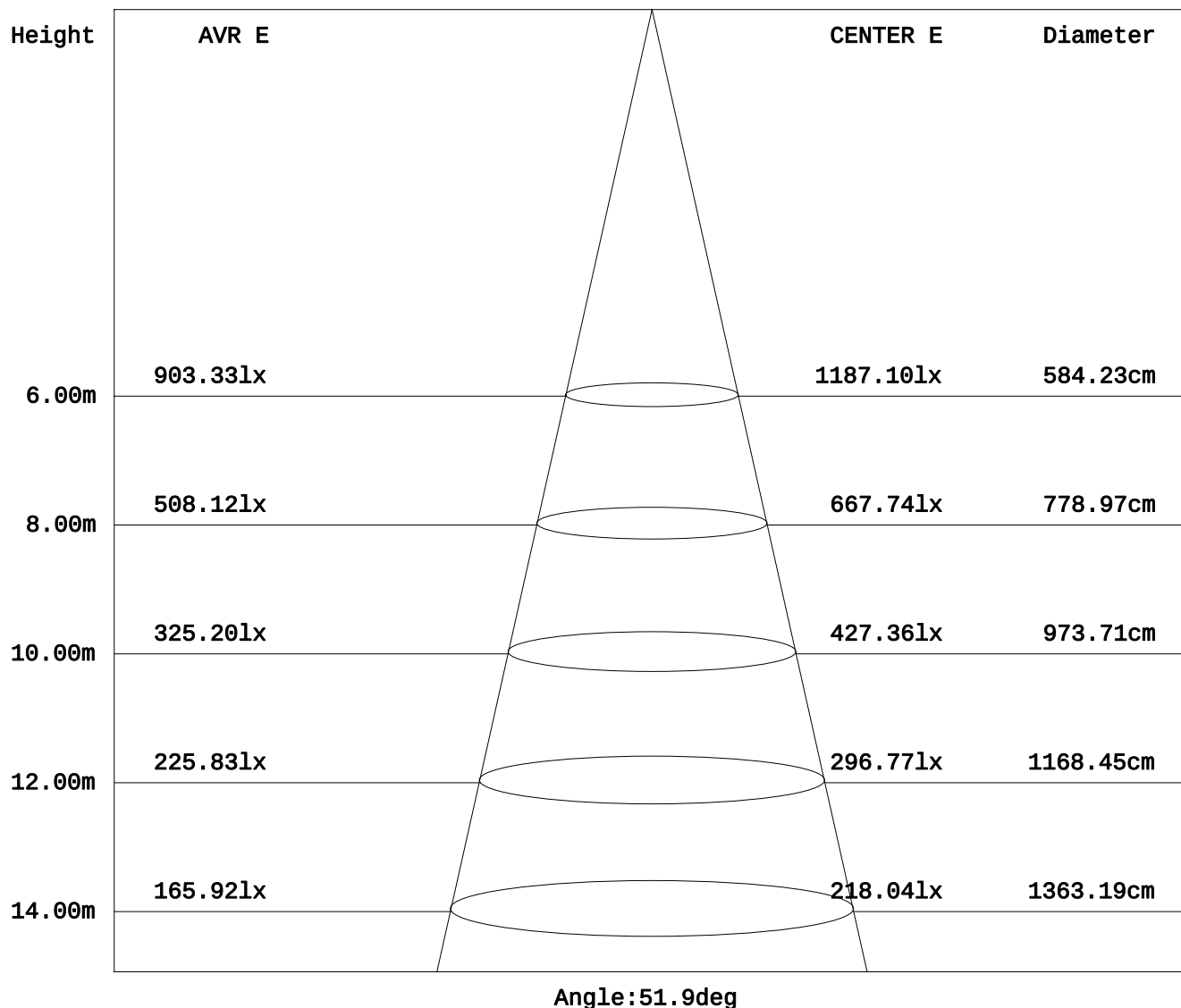
Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:6.000 m
 Remarks:

HONGPU GONIOPHOTOMETERS SYSTEM TEST REPORT

AVERAGE AND CENTER E Figure

Report number:

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



Test System: HOP00 HPG1900
Temperature: 25.3DEG
Operators:
Test Date: 2018年10月09日

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity: 65.0%
Test Distance: 6.000 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	4443	4395	4276	4244	4278	4218	4203	4274	0- 5	1018	1018
10.0	4514	4471	4329	4386	4454	4357	4287	4421	5- 10	3120	4138
15.0	4232	4168	4109	4303	4482	4453	4308	4365	10- 15	5197	9334
20.0	3408	3294	3385	3721	4163	4198	4000	3834	15- 20	6696	16030
25.0	2415	2293	2421	2754	3310	3384	3175	2858	20- 25	6907	22937
30.0	1432	1349	1475	1772	2319	2388	2210	1863	25- 30	5887	28824
35.0	714.6	658.1	727.2	946.8	1358	1418	1174	1018	30- 35	4131	32955
40.0	297.9	258.8	288.4	423.3	669.3	688.0	602.8	451.4	35- 40	2356	35311
45.0	40.39	34.77	37.60	110.2	248.8	265.3	191.0	109.1	40- 45	1034	36346
50.0	20.70	18.14	19.29	26.01	34.97	36.85	31.16	26.72	45- 50	262.8	36608
55.0	12.07	10.74	11.09	15.54	20.06	19.56	17.83	15.79	50- 55	88.67	36697
60.0	7.243	6.273	6.476	9.032	11.85	11.42	10.57	8.929	55- 60	54.52	36752
65.0	4.561	3.934	4.035	5.464	7.002	6.764	6.368	5.376	60- 65	34.05	36786
70.0	2.894	2.462	2.476	3.400	4.334	4.271	4.050	3.335	65- 70	21.90	36808
75.0	1.659	1.360	1.353	1.978	2.602	2.635	2.527	1.949	70- 75	13.89	36821
80.0	0.835	0.643	0.594	0.985	1.396	1.456	1.407	0.985	75- 80	7.942	36829
85.0	0.259	0.157	0.061	0.320	0.565	0.653	0.659	0.349	80- 85	3.726	36833
90.0	0.245	0.182	0.104	0.151	0.130	0.099	0.166	0.090	85- 90	1.218	36834
95.0									90- 95		
100.0									95-100		
105.0									100-105		
110.0									105-110		
115.0									110-115		
120.0									115-120		
125.0									120-125		
130.0									125-130		
135.0									130-135		
140.0									135-140		
145.0									140-145		
150.0									145-150		
155.0									150-155		
160.0									155-160		
165.0									160-165		
170.0									165-170		
175.0									170-175		
180.0									175-180		
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm	

Test System:HOP00 HPG1900
 Temperature:25.3DEG
 Operators:
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 Remarks:

HONGPU GONIOPHOTOMETERS SYSTEM TEST REPORT

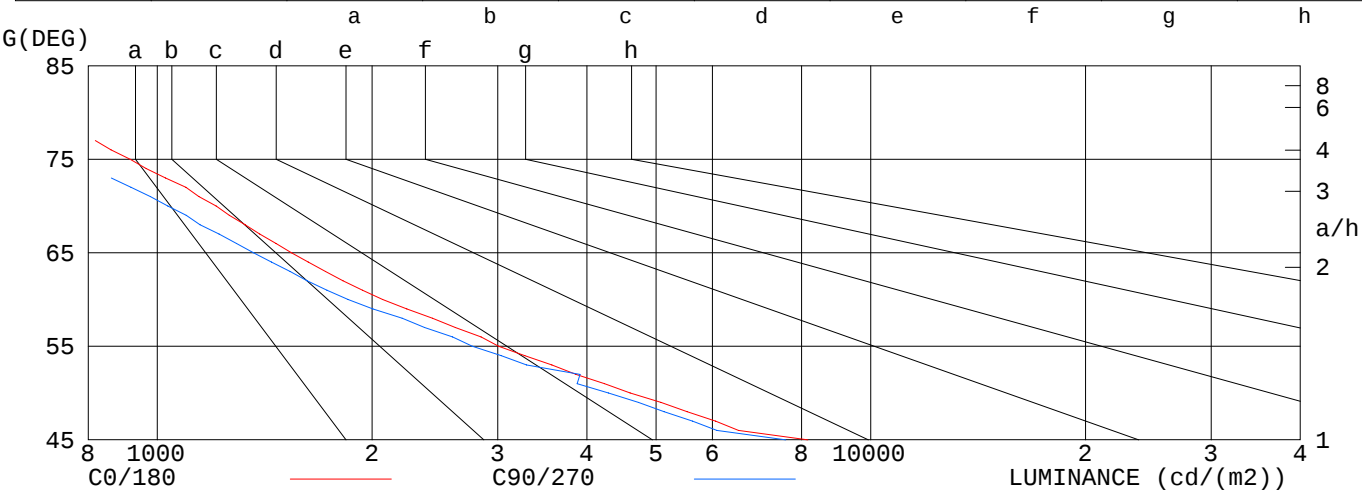
LUMINANCE LIMITATION CURVES

Report number:

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

LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300



LUMINANCE cd/(m2)

G(DEG)	C0/180	C90/270
85	425	100
80	687	489
75	916	747
70	1209	1035
65	1542	1364
60	2069	1850
55	3008	2763
50	4600	4288
45	8161	7598

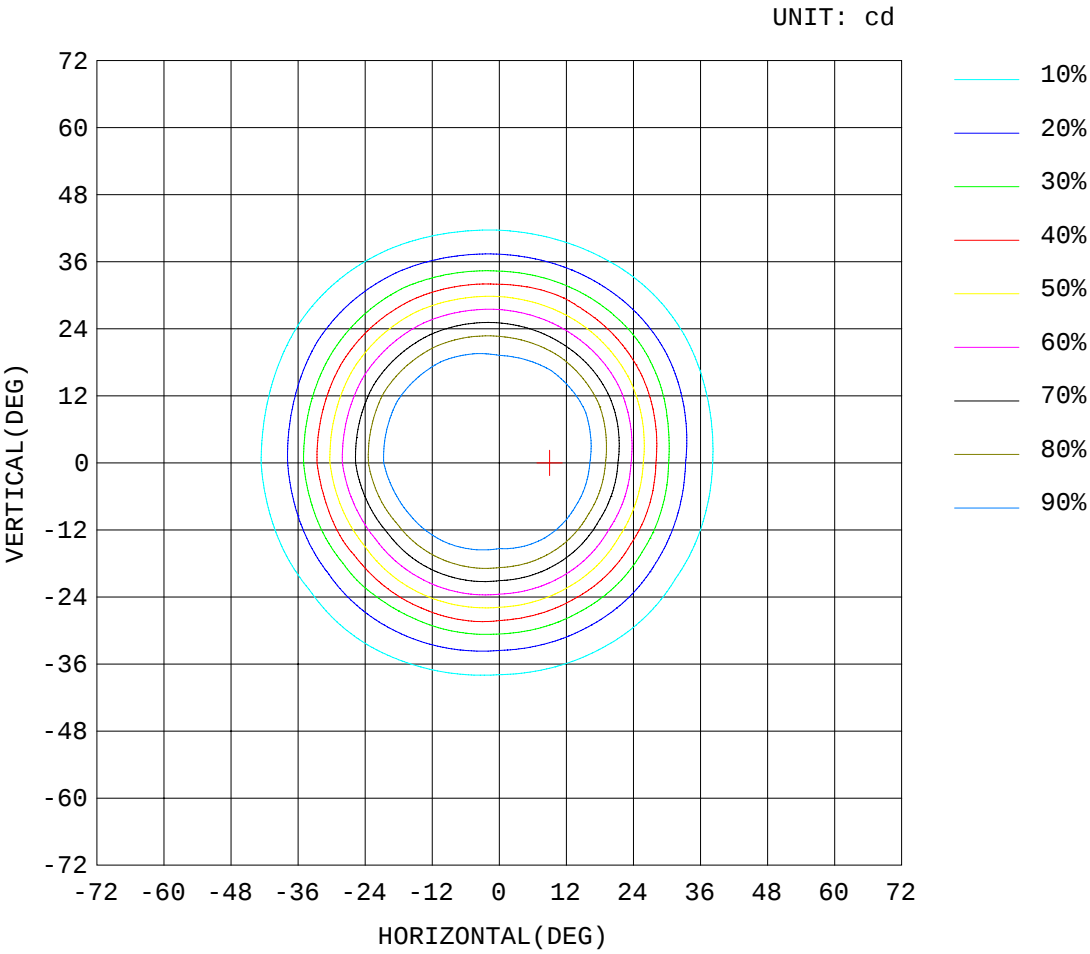
Test System:HOP00 HPG1900
Temperature:25.3DEG
Operators:
Test Date:2018年10月09日

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.000 m
Remarks:

ISOCANDELA DIAGRAM

Report number:

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



Test System:HOP00 HPG1900
Temperature:25.3DEG
Operators:
Test Date:2018年10月09日

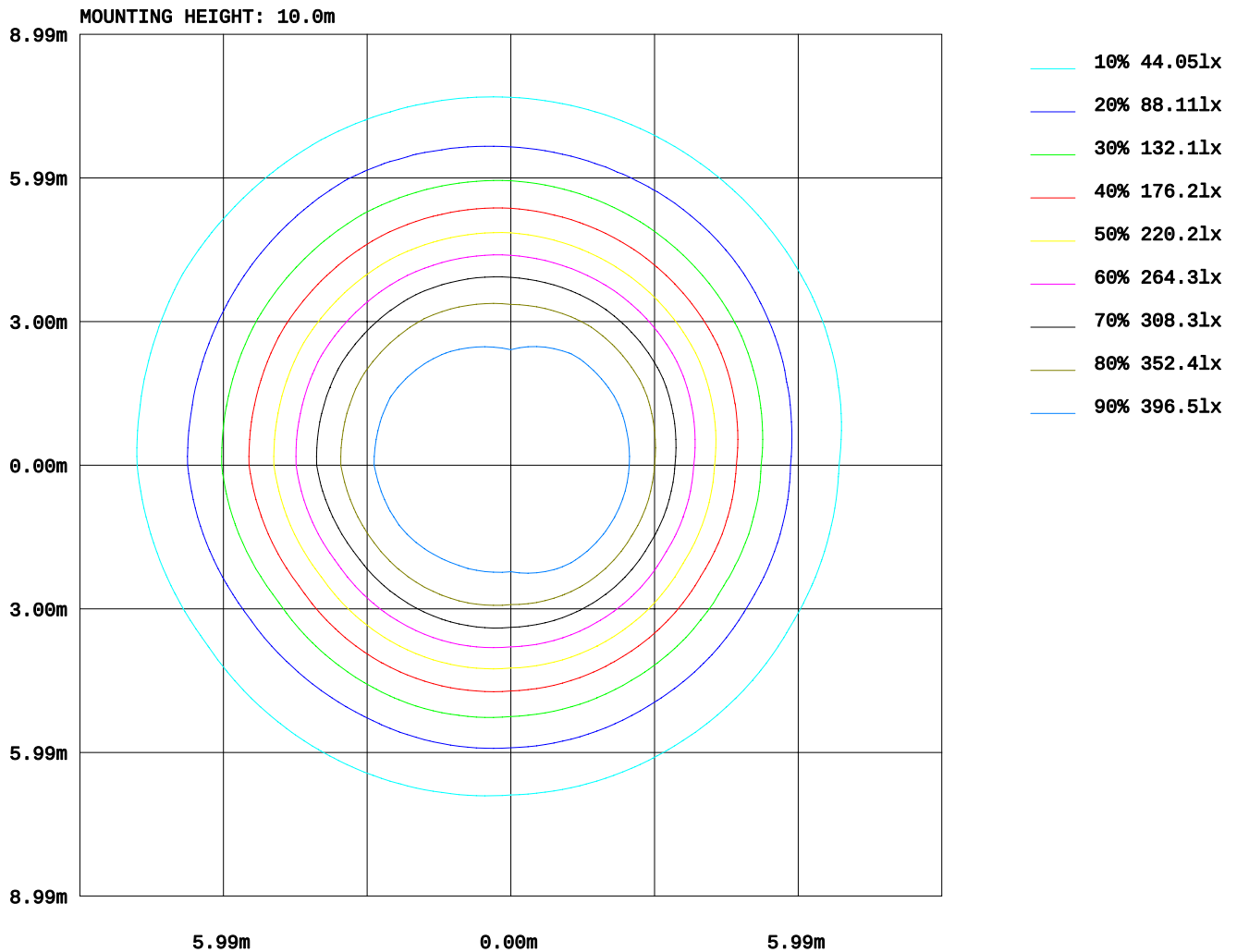
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.000 m
Remarks:

HONGPU GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Report number:

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



Test System:HOP00 HPG1900
Temperature:25.3DEG
Operators:
Test Date:2018年10月09日

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.000 m
Remarks:

HONGPU GONIOPHOTOMETERS SYSTEM TEST REPORT

AREA LUMINOUS FLUX

Report number:

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

VERTICAL (DEG)	AREA FLUX DIAGRAM																		UNIT:lm		Φ t	Φ a
	0.09	0.18	0.28	0.40	0.53	0.65	0.78	0.89	0.95	0.93	0.83	0.70	0.55	0.42	0.30	0.19	0.11	0.05	8.84	8.84		
72																						
64	0.13	0.27	0.45	0.68	0.96	1.27	1.62	1.91	2.07	2.02	1.77	1.43	1.06	0.77	0.53	0.33	0.18	0.08	17.5	17.5		
56	0.17	0.37	0.68	1.13	1.79	2.64	3.63	4.62	5.27	4.99	4.14	3.16	2.20	1.42	0.87	0.51	0.26	0.11	38.0	38.0		
48	0.22	0.50	1.01	1.92	3.43	8.37	24.7	43.7	54.8	50.5	33.3	14.3	4.92	2.64	1.44	0.74	0.36	0.15	247	247		
40	0.27	0.65	1.47	3.18	13.0	54.7	118	183	218	205	152	84.7	30.4	5.70	2.29	1.04	0.46	0.18	1075	1075		
32	0.31	0.82	2.03	7.26	52.3	149	298	434	501	481	379	228	98.1	24.4	3.45	1.40	0.56	0.22	2662	2662		
24	0.35	0.98	2.66	21.2	106	280	509	694	766	747	626	411	192	58.6	6.63	1.75	0.66	0.24	4426	4426		
	0.38	1.12	3.28	38.2	158	399	677	831	844	847	792	564	279	90.6	12.0	2.01	0.72	0.26	5538	5538		
	0.40	1.20	3.94	49.0	190	462	744	851	829	840	834	627	317	105	14.6	2.11	0.75	0.26	5871	5871		
	0.39	1.17	3.79	46.1	179	439	718	844	834	857	826	598	298	97.8	12.9	2.03	0.73	0.26	5758	5758		
	0.37	1.06	3.00	30.9	132	338	590	778	827	828	727	483	230	73.1	8.13	1.79	0.66	0.24	5051	5051		
-24	0.33	0.90	2.34	13.7	74.8	206	398	570	653	632	507	314	138	38.6	3.93	1.44	0.56	0.22	3555	3555		
-32	0.28	0.72	1.72	4.35	28.7	95.6	197	302	359	343	258	149	60.9	11.1	2.46	1.07	0.46	0.19	1816	1816		
-40	0.23	0.55	1.19	2.45	5.93	25.9	65.8	107	128	120	87.4	44.2	12.3	3.25	1.58	0.75	0.36	0.15	607	607		
-48	0.18	0.40	0.79	1.49	2.61	4.30	8.33	16.4	21.7	19.5	11.9	5.37	3.08	1.82	0.98	0.51	0.27	0.12	100	100		
-56	0.13	0.29	0.52	0.89	1.41	2.05	2.67	3.10	3.22	3.08	2.72	2.17	1.56	1.01	0.61	0.35	0.18	0.08	26.1	26.1		
-64	0.09	0.19	0.33	0.54	0.78	1.04	1.24	1.36	1.36	1.30	1.20	1.02	0.82	0.58	0.38	0.22	0.11	0.05	12.6	12.6		
-72	0.06	0.11	0.19	0.30	0.43	0.55	0.62	0.64	0.63	0.60	0.58	0.52	0.43	0.32	0.21	0.12	0.06	0.03	6.38	6.38		
	-72	-64	-56	-48	-40	-32	-24	-16	HORIZONTAL (DEG)				16	24	32	40	48	56	64	72		
Φ t	4.39	11.4	29.7	224	952	2470	4357	5666	6049	5983	5246	3533	1671	518	73.4	18.3	7.44	2.88	36834			
Φ a	4.39	11.4	29.7	224	952	2470	4357	5666	6049	5983	5246	3533	1671	518	73.4	18.3	7.44	2.88		36834		

Test System:HOP00 HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2018年10月09日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:6.000 m
 Remarks:

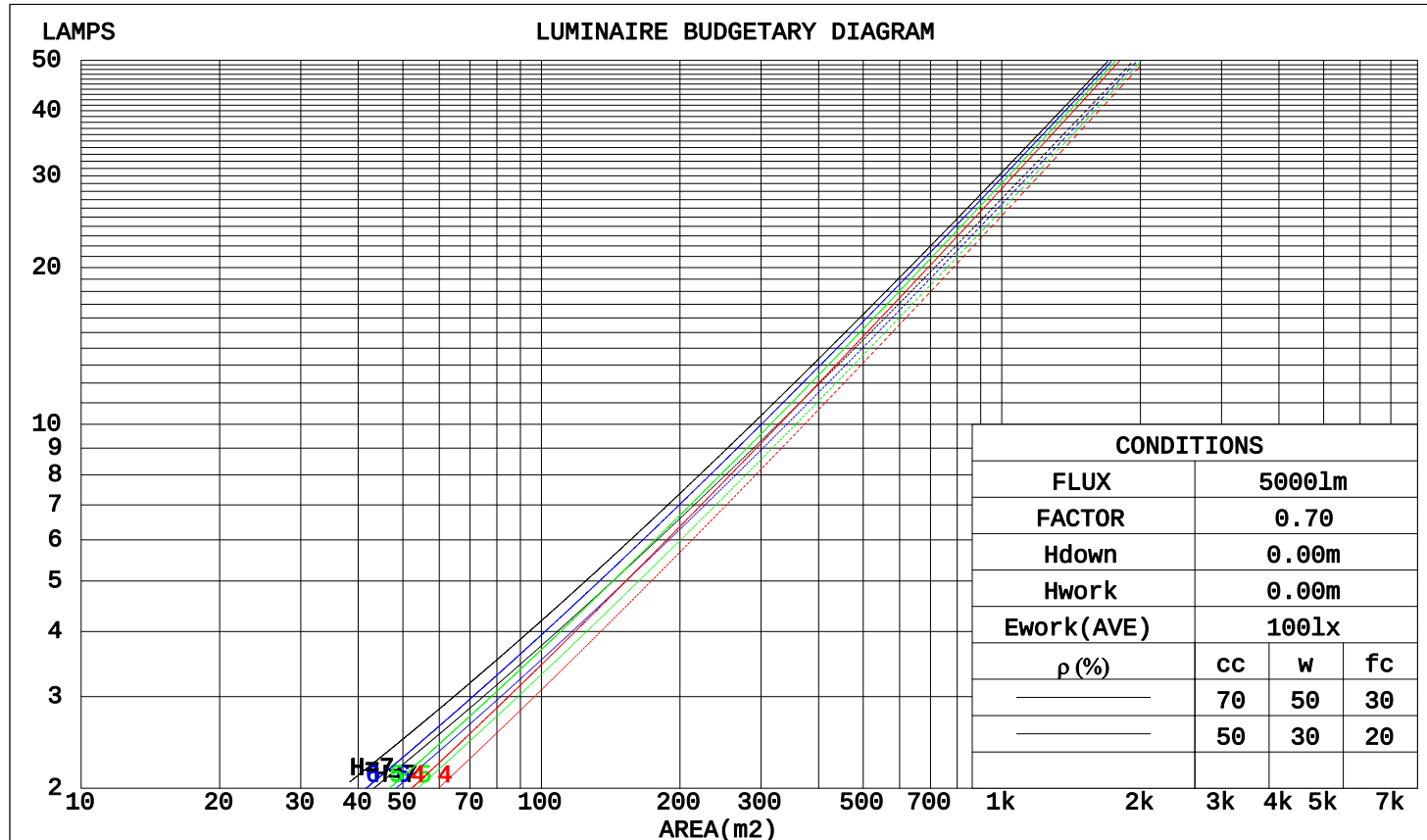
HONGPU GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

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

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{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	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.11	1.09	1.07	1.09	1.07	1.05	1.05	1.03	1.02	1.01	.00	.99	.98	.97	.96	.94
2.0	1.04	1.00	.97	1.02	.99	.96	.99	.96	.94	.96	.94	.92	.93	.91	.90	.88
3.0	.97	.93	.89	.96	.92	.88	.93	.90	.87	.91	.88	.85	.89	.86	.84	.83
4.0	.91	.86	.82	.90	.85	.82	.88	.84	.81	.86	.83	.80	.84	.81	.79	.77
5.0	.86	.80	.76	.85	.80	.76	.83	.79	.75	.82	.78	.75	.80	.77	.74	.73
6.0	.81	.75	.71	.80	.75	.71	.79	.74	.71	.77	.73	.70	.76	.72	.70	.68
7.0	.77	.71	.67	.76	.70	.67	.75	.70	.66	.73	.69	.66	.72	.69	.66	.64
8.0	.72	.67	.63	.72	.66	.63	.71	.66	.62	.70	.65	.62	.69	.65	.62	.61
9.0	.69	.63	.59	.68	.63	.59	.67	.62	.59	.66	.62	.59	.65	.61	.58	.57
10.0	.65	.60	.56	.65	.59	.56	.64	.59	.56	.63	.59	.56	.62	.58	.55	.54



Test System:HOP00 HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2018年10月09日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:6.000 m
 Remarks:

HONGPU GONIOPHOTOMETERS SYSTEM TEST REPORT

WEC AND CCEC

Report number:

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

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coeffcients(WEC)									
0.0																
1.0	.170	.097	.031	.164	.093	.030	.151	.087	.028	.140	.081	.026	.129	.075	.024	
2.0	.163	.089	.027	.157	.086	.027	.146	.081	.025	.137	.077	.024	.128	.072	.023	
3.0	.155	.082	.025	.150	.080	.024	.141	.076	.023	.133	.073	.022	.125	.069	.021	
4.0	.147	.077	.023	.143	.075	.022	.136	.072	.021	.128	.069	.021	.122	.066	.020	
5.0	.141	.072	.021	.137	.070	.021	.130	.068	.020	.124	.066	.019	.118	.063	.019	
6.0	.134	.067	.019	.131	.066	.019	.126	.064	.019	.120	.062	.018	.115	.060	.018	
7.0	.129	.064	.018	.126	.063	.018	.121	.061	.018	.116	.059	.017	.111	.058	.017	
8.0	.123	.060	.017	.121	.060	.017	.116	.058	.017	.112	.057	.016	.108	.055	.016	
9.0	.119	.057	.016	.116	.057	.016	.112	.055	.016	.108	.054	.016	.105	.053	.015	
10.0	.114	.055	.015	.112	.054	.015	.108	.053	.015	.105	.052	.015	.101	.051	.015	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.171	.157	.145	.146	.135	.125	.100	.093	.087	.057	.054	.050	.018	.017	.016	
2.0	.155	.133	.114	.133	.114	.098	.091	.079	.069	.052	.046	.040	.017	.015	.013	
3.0	.142	.114	.091	.122	.098	.079	.084	.068	.055	.048	.040	.032	.016	.013	.011	
4.0	.132	.099	.073	.113	.085	.064	.078	.059	.045	.045	.035	.027	.014	.011	.009	
5.0	.123	.087	.061	.106	.075	.053	.073	.053	.037	.042	.031	.022	.014	.010	.007	
6.0	.115	.078	.051	.099	.067	.044	.068	.047	.031	.040	.028	.019	.013	.009	.006	
7.0	.109	.070	.043	.094	.061	.037	.065	.043	.026	.038	.025	.016	.012	.008	.005	
8.0	.103	.064	.037	.089	.055	.032	.062	.039	.023	.036	.023	.014	.012	.008	.004	
9.0	.098	.059	.032	.085	.051	.028	.059	.036	.020	.034	.021	.012	.011	.007	.004	
10.0	.094	.054	.028	.081	.047	.024	.056	.033	.017	.033	.020	.010	.011	.006	.003	

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Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:6.000 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	17.8	18.7	18.0	18.8	19.0	18.1	19.0	18.3	19.2	19.4	
	3H	17.6	18.4	17.9	18.6	18.8	18.0	18.8	18.2	19.0	19.2
	4H	17.5	18.3	17.8	18.5	18.7	17.9	18.7	18.1	18.9	19.1
	6H	17.4	18.2	17.7	18.4	18.7	17.8	18.5	18.1	18.8	19.0
	8H	17.4	18.1	17.7	18.3	18.6	17.7	18.4	18.0	18.7	19.0
	12H	17.3	18.0	17.7	18.3	18.6	17.7	18.4	18.0	18.6	18.9
4H 2H	17.5	18.3	17.8	18.5	18.7	17.9	18.7	18.1	18.9	19.1	
	3H	17.3	18.0	17.7	18.3	18.6	17.7	18.4	18.0	18.6	18.9
	4H	17.3	17.9	17.6	18.2	18.5	17.6	18.2	18.0	18.5	18.8
	6H	17.2	17.7	17.5	18.0	18.4	17.5	18.1	17.9	18.4	18.7
	8H	17.1	17.6	17.5	18.0	18.3	17.5	18.0	17.9	18.3	18.7
	12H	17.1	17.5	17.5	17.9	18.3	17.4	17.9	17.8	18.2	18.6
8H 4H	17.1	17.6	17.5	18.0	18.3	17.5	18.0	17.9	18.3	18.7	
	6H	17.0	17.4	17.4	17.8	18.2	17.4	17.8	17.8	18.2	18.6
	8H	16.9	17.3	17.4	17.7	18.2	17.3	17.7	17.8	18.1	18.5
	12H	16.9	17.2	17.4	17.6	18.1	17.3	17.6	17.7	18.0	18.5
12H 4H	17.1	17.5	17.5	17.9	18.3	17.4	17.9	17.8	18.2	18.6	
	6H	16.9	17.3	17.4	17.7	18.2	17.3	17.7	17.8	18.1	18.5
	8H	16.9	17.2	17.4	17.6	18.1	17.3	17.6	17.7	18.0	18.5
Variations with the observer position at spacings:											
S = 1.0H	+ 4.4 / -14.6					+ 4.4 / -14.5					
1.5H	+ 7.2 / -13.3					+ 7.1 / -12.6					
2.0H	+ 5.1 / - 3.9					+ 4.5 / - 3.2					

CIE Pub.117 Corrected 36834 lm Total Lamp Luminous Flux.(8log(F/F0) = 12.5)

Test System:HOP00 HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2018年10月09日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:6.000 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	89	83	79	88	83	79	88	82	79	76
0.80	96	91	87	96	90	87	94	90	87	83
1.00	100	95	92	100	95	91	98	94	91	87
1.25	104	99	96	103	99	96	101	98	95	91
1.50	107	102	99	106	102	99	103	100	98	93
2.00	109	105	102	108	104	101	105	102	100	95
2.50	111	107	104	109	106	103	106	104	102	96
3.00	112	109	106	110	108	105	107	105	103	97
4.00	114	112	109	112	110	108	109	107	105	98
5.00	115	113	112	113	111	110	109	108	107	99
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

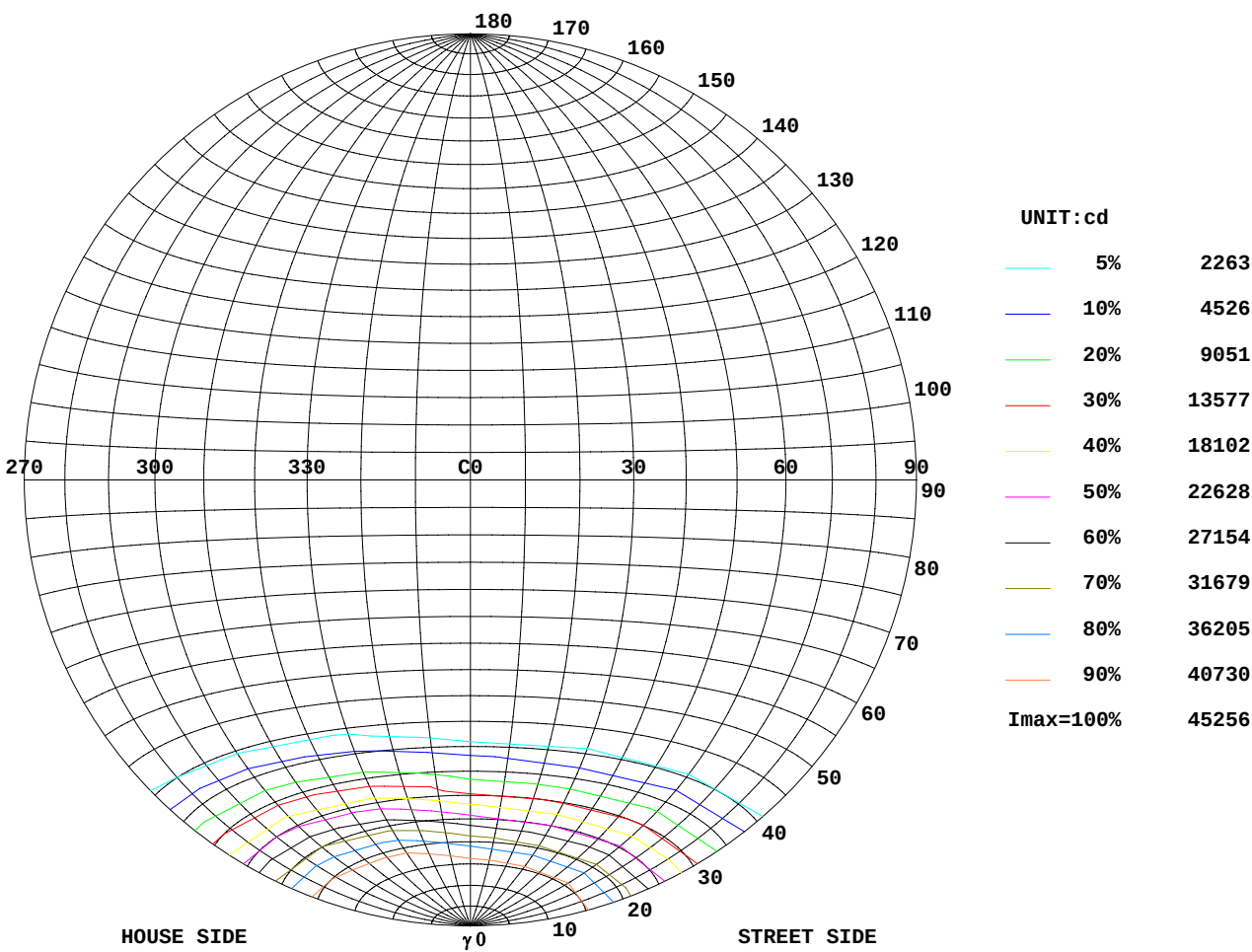
Test System:HOP00 HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2018年10月09日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:6.000 m
 Remarks:

ISOCANDELA DIAGRAM

Report number:

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



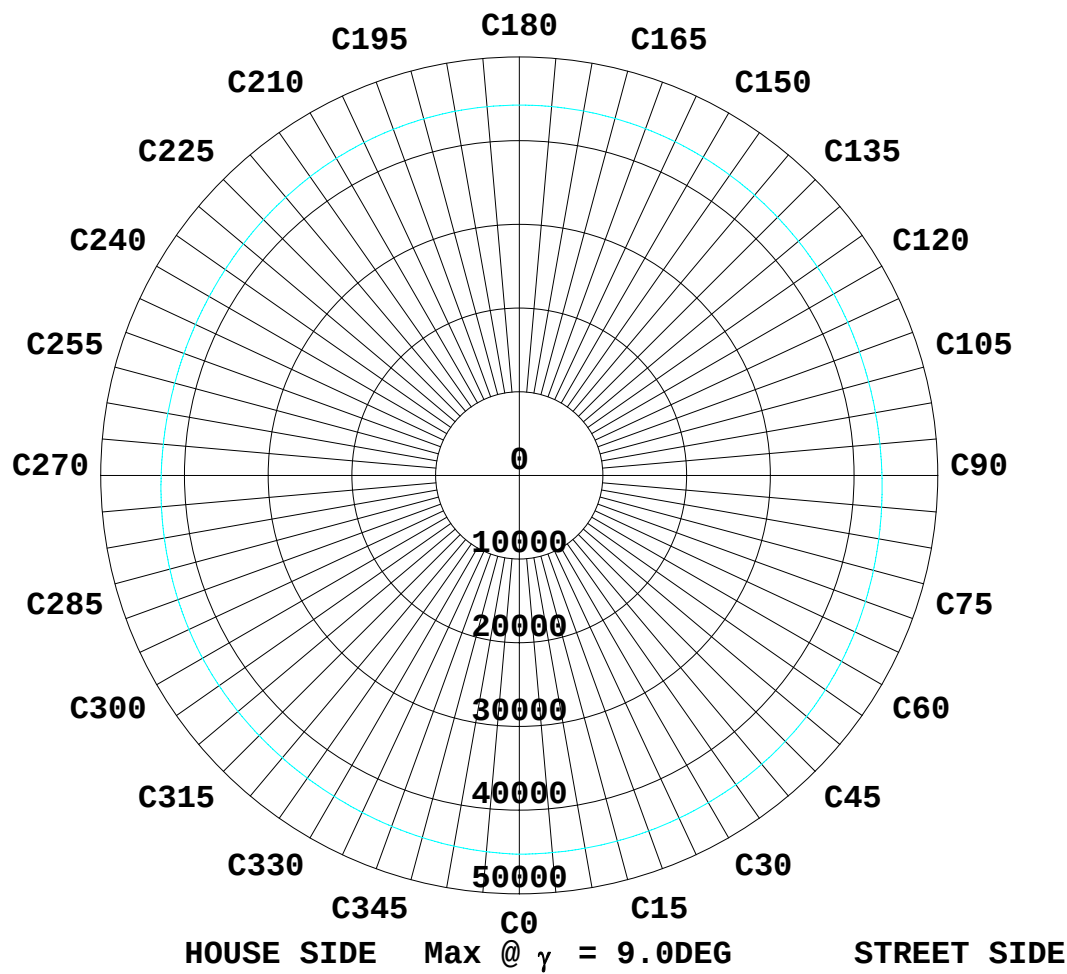
Test System:HOP00 HPG1900
Temperature:25.3DEG
Operators:
Test Date:2018年10月09日

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.000 m
Remarks:

ISOCANDELA DIAGRAM

Report number:

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



Test System:HOP00 HPG1900
Temperature:25.3DEG
Operators:
Test Date:2018年10月09日

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.000 m
Remarks:

HONGPU GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

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

UNIT: ×10cd

C(DEG)	0	30	60	90	120	150	180	210	240	270	300	330
γ (DEG)												
0.0	4274	4255	4231	4213	4197	4185	4274	4255	4231	4213	4197	4185
5.0	4443	4441	4349	4276	4252	4236	4278	4238	4199	4203	4248	4300
10.0	4514	4496	4446	4329	4352	4420	4454	4417	4297	4287	4394	4448
15.0	4232	4172	4163	4109	4229	4378	4482	4495	4410	4308	4386	4343
20.0	3408	3281	3306	3385	3609	3834	4163	4226	4170	4000	3926	3741
25.0	2415	2268	2318	2421	2644	2864	3310	3413	3355	3175	2967	2749
30.0	1432	1334	1364	1475	1672	1872	2319	2408	2369	2210	1989	1738
35.0	715	644	673	727	873	1021	1358	1433	1404	1174	1099	937
40.0	298	256	262	288	389	458	669	698	678	603	494	409
45.0	40.3	30.0	39.4	37.6	84.0	136	249	285	245	191	135	83.1
50.0	20.7	17.4	18.8	19.2	24.3	27.6	34.9	37.1	36.6	31.1	27.5	25.8
55.0	12.0	10.1	11.3	11.0	14.2	16.8	20.0	20.6	18.4	17.8	16.8	14.7
60.0	7.24	5.90	6.64	6.47	8.59	9.47	11.8	12.1	10.6	10.5	9.07	8.78
65.0	4.56	3.63	4.23	4.03	5.32	5.60	7.00	7.24	6.28	6.36	5.36	5.38
70.0	2.89	2.21	2.70	2.47	3.39	3.40	4.33	4.59	3.95	4.05	3.33	3.34
75.0	1.65	1.18	1.53	1.35	2.00	1.95	2.60	2.85	2.41	2.52	1.94	1.95
80.0	0.84	0.50	0.78	0.59	1.04	0.93	1.39	1.62	1.28	1.40	0.96	1.01
85.0	0.26	0.06	0.25	0.06	0.39	0.25	0.57	0.79	0.52	0.66	0.31	0.39
90.0	0.24	0.13	0.24	0.10	0.22	0.08	0.13	0.18	0.02	0.17	0.02	0.16

Test System:HOP00 HPG1900
 Temperature:25.3DEG
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Test Set: 5.0deg/s C-Gamma (TYPE C)
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 Remarks: