

STREETLIGHT PHOTOMETRIC TEST REPORT

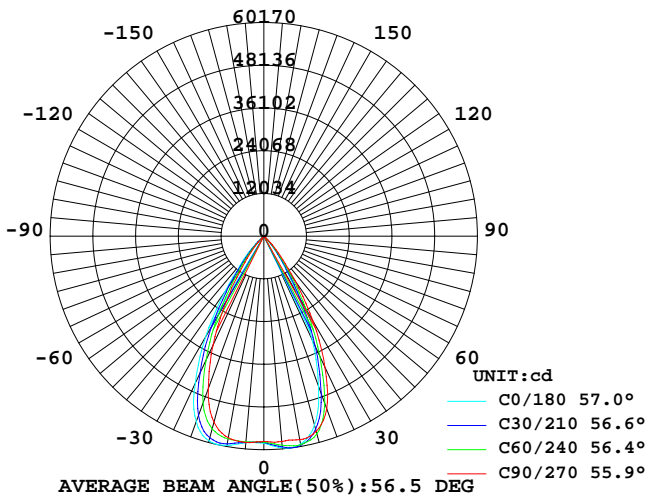
Report number:

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

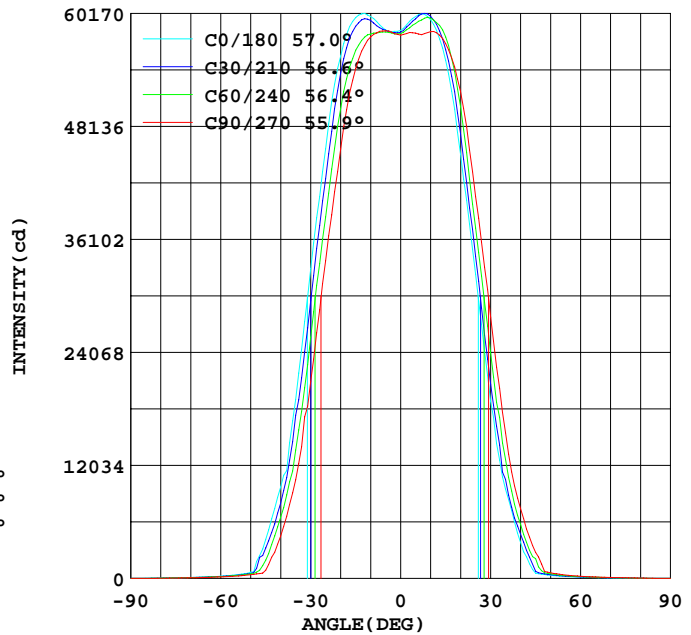
MODEL:		Imax(cd):	60170	Effective Flux(lm):	47425.5
NOMINAL POWER(W):	400	MAXIMUM(C, γ):	0, 12.0	EEI	0.117
RATED VOLTAGE(V):	220	EFFICIENCY(%):	100.0	Voltage(V)	217.3
NOMINAL FLUX(lm):	49633.0	η street_up(%):	0.0	Current(A)	1.900
TEST FLUX(lm):	49633	η street_down(%):	48.4	Power(W)	406.8
LAMPS QUANTITY:	1	η house_up(%)	0.0	Power Factor	0.985
TOTAL FLUX(lm):	49633	η house_down(%)	51.6	EFFICIENCY(lm/W)	122.0

INTENSITY DISTRIBUTION DIAGRAM
IN C PLANS

INTENSITY DISTRIBUTION DIAGRAM
IN C PLANS



LUMINOUS INTENSITY DISTRIBUTION



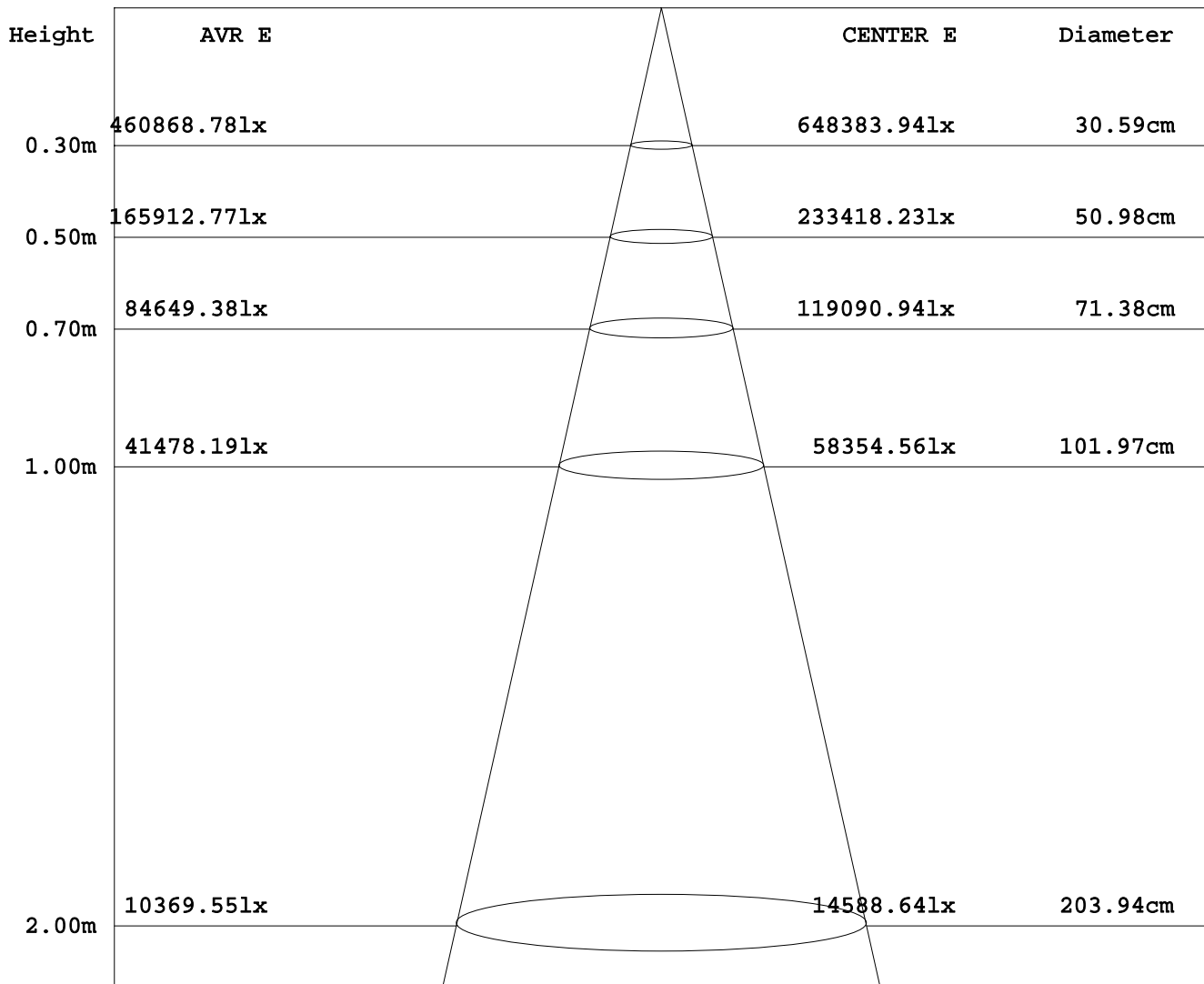
Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2018年03月23日

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

AVERAGE AND CENTER E Figure

Report number:

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



Angle:54.0deg

Test System:HOPPO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2018年03月23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	5839	5828	5830	5877	5982	5933	5806	5742	0- 5	1394	1394
10.0	5982	5869	5766	5798	5950	5974	5821	5798	5- 10	4197	5591
15.0	5972	5751	5431	5327	5515	5698	5693	5823	10- 15	6860	12451
20.0	5561	5192	4574	4242	4515	4877	5182	5490	15- 20	8791	21242
25.0	4573	4050	3382	2970	3238	3581	4066	4555	20- 25	9201	30443
30.0	3299	2764	2099	1754	1882	2232	2782	3287	25- 30	7945	38389
35.0	1905	1551	1050	823.4	950.2	1160	1551	1971	30- 35	5587	43976
40.0	972.1	725.1	450.0	325.0	382.7	522.4	741.6	977.0	35- 40	3203	47178
45.0	416.8	259.7	88.18	55.43	55.46	143.8	276.4	430.2	40- 45	1494	48673
50.0	67.05	50.94	39.41	31.50	33.64	45.05	60.54	80.51	45- 50	478.7	49151
55.0	38.27	32.18	24.64	19.74	20.85	27.86	36.71	40.08	50- 55	169.5	49321
60.0	24.04	20.61	15.90	12.77	13.34	17.81	23.29	24.65	55- 60	111.1	49432
65.0	15.61	13.66	10.73	8.611	8.874	12.24	15.73	15.98	60- 65	75.71	49508
70.0	10.76	9.338	7.228	5.662	5.706	8.179	10.96	10.79	65- 70	52.90	49561
75.0	7.056	6.026	4.464	3.366	3.261	5.016	7.207	7.099	70- 75	36.15	49597
80.0	4.161	3.355	2.174	1.508	1.411	2.543	4.219	4.253	75- 80	22.11	49619
85.0	2.019	1.303	0.446	0.461	0.140	0.536	1.692	1.976	80- 85	10.56	49630
90.0	0.529	0.484	0.497	0.650	0.212	0.185	0.292	0.265	85- 90	3.475	49633
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:HOPPO HPG1900
 Temperature:25.3DEG
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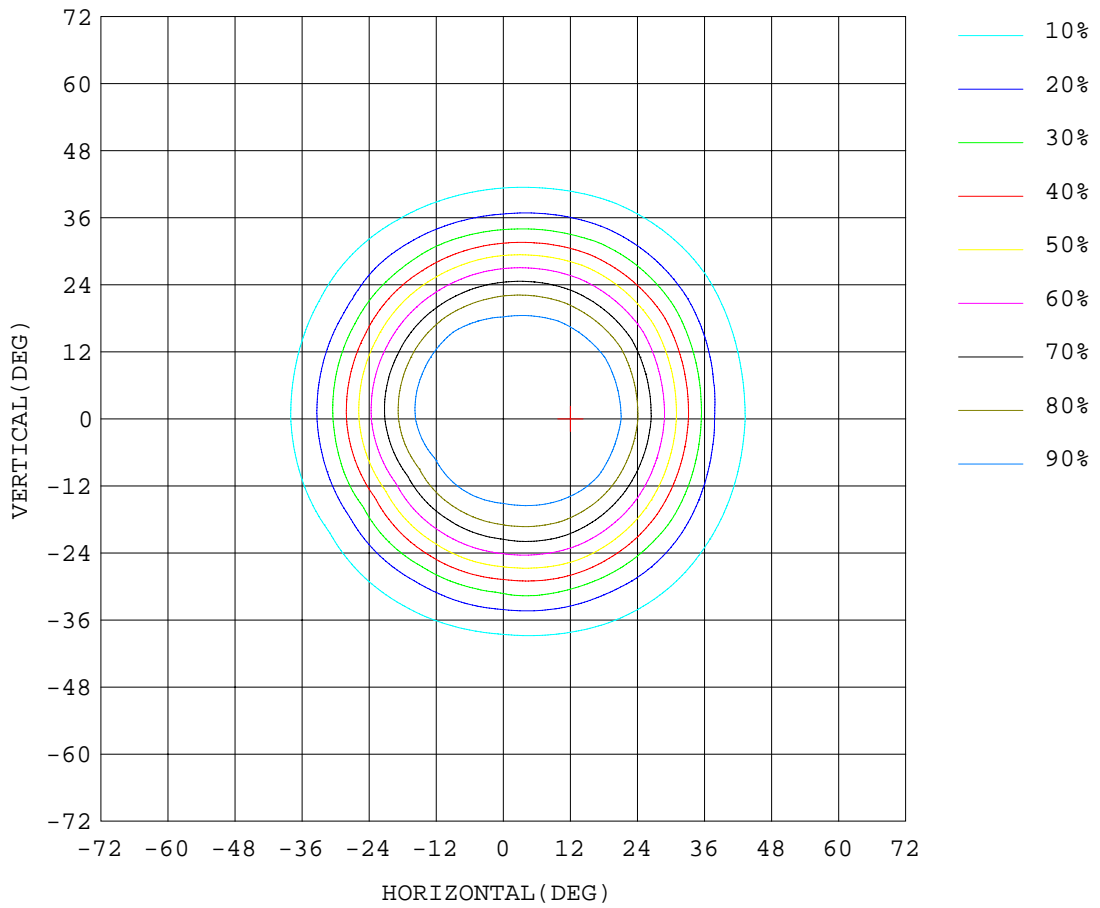
Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:6.000 m
 Remarks:

ISOCANDELA DIAGRAM

Report number:

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

UNIT: cd



Test System:HOPOO HPG1900
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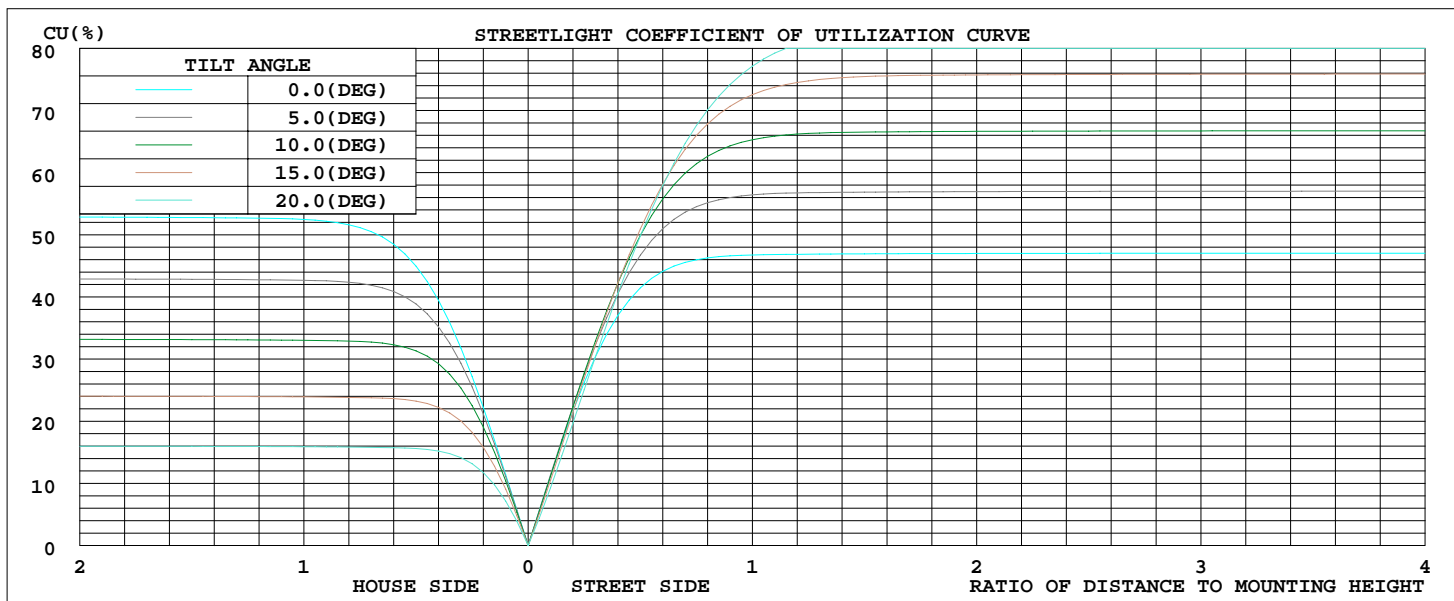
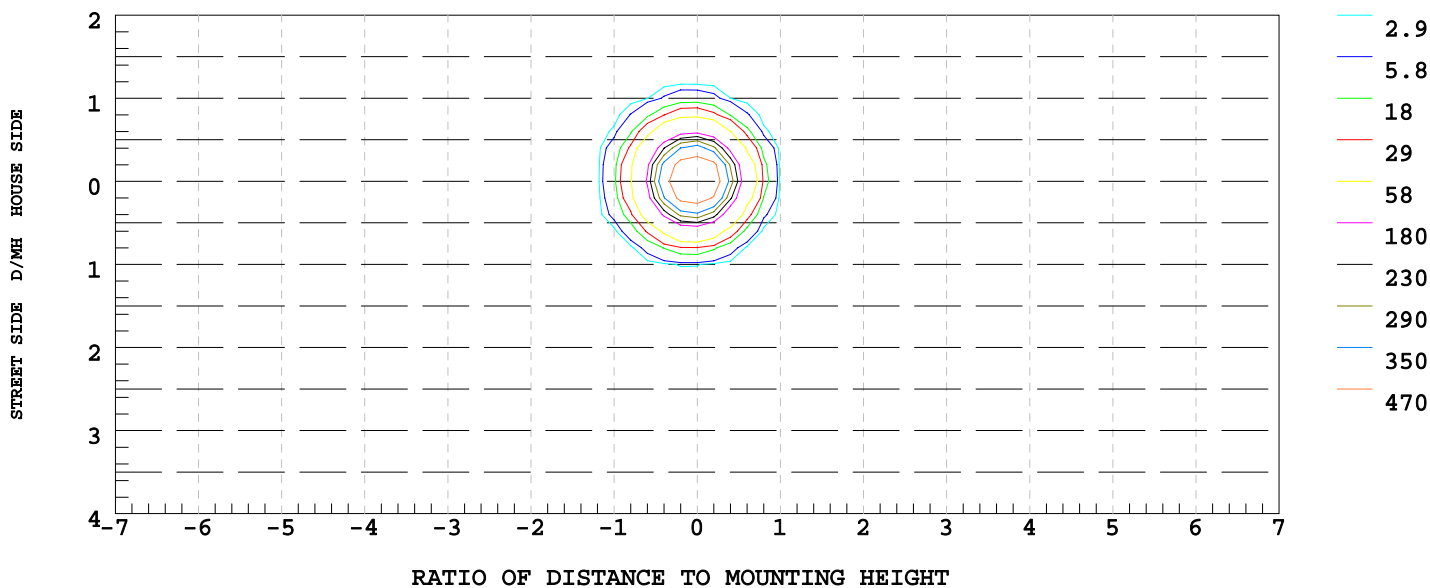
Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:6.000 m
 Remarks:

ISOLUX DIAGRAM

Report number:

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

ILLUMINANCE AT MH=10 m, Enadir = 583.55 lx



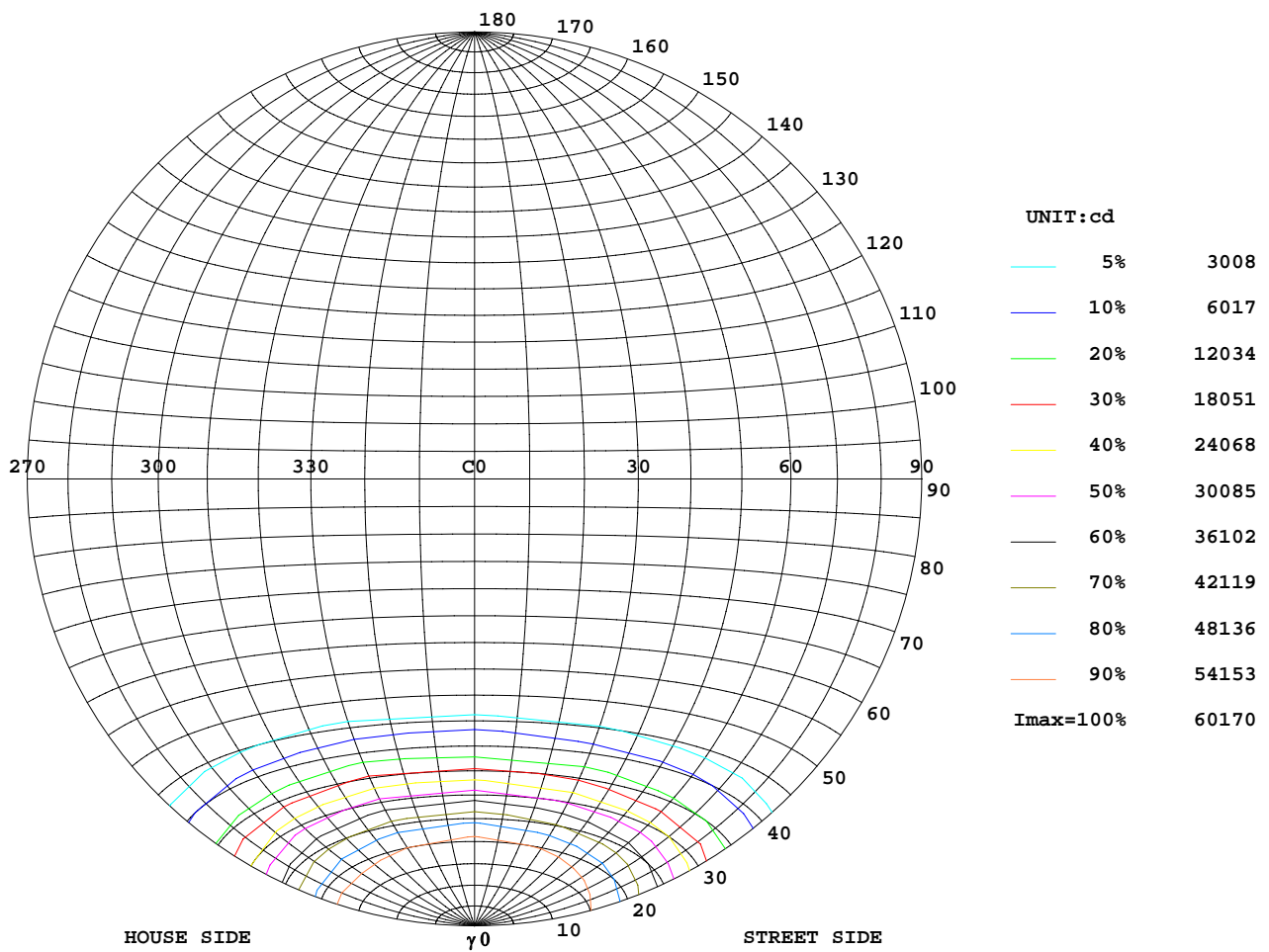
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 Remarks:

ISOCANDELA DIAGRAM

Report number:

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



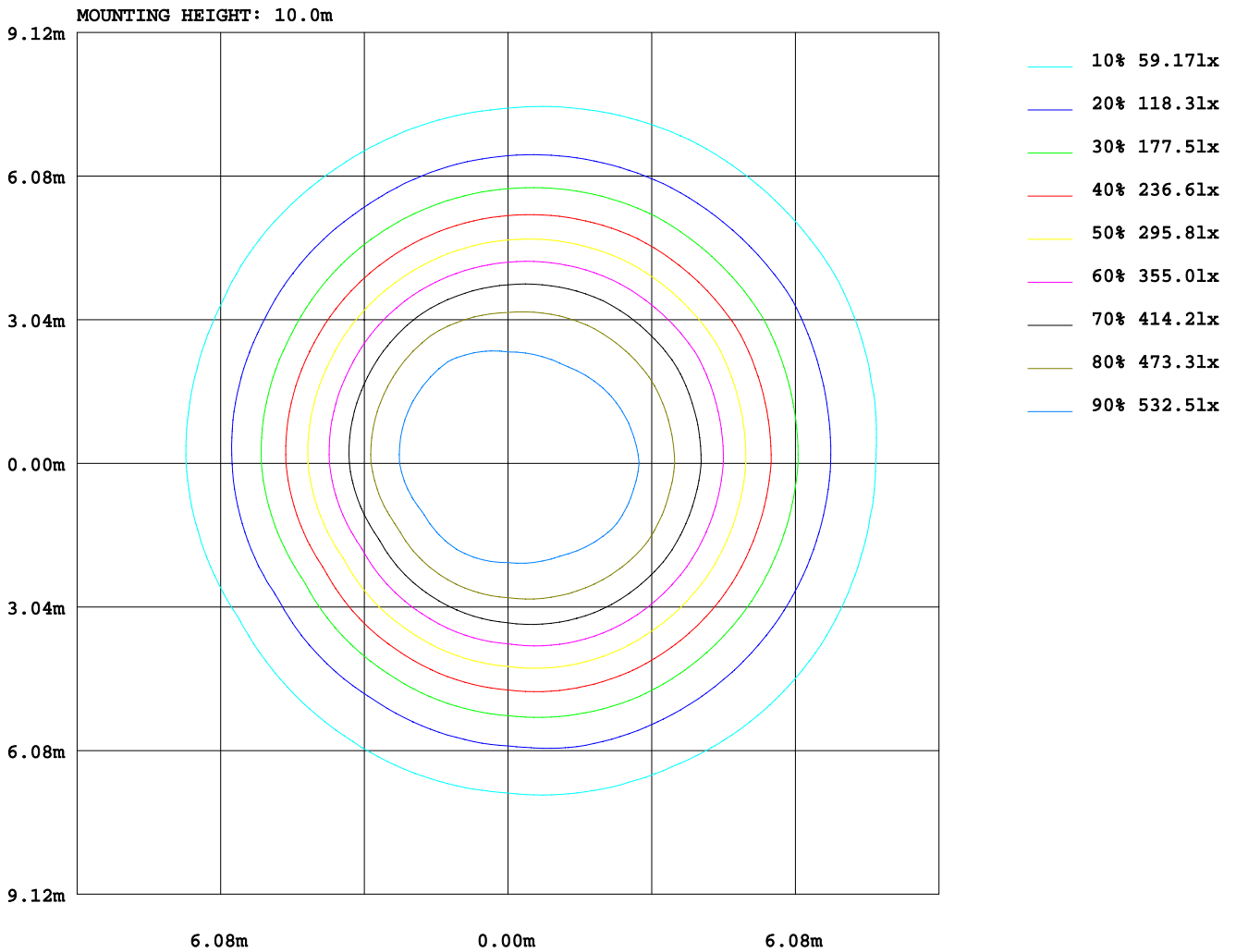
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NAME:	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



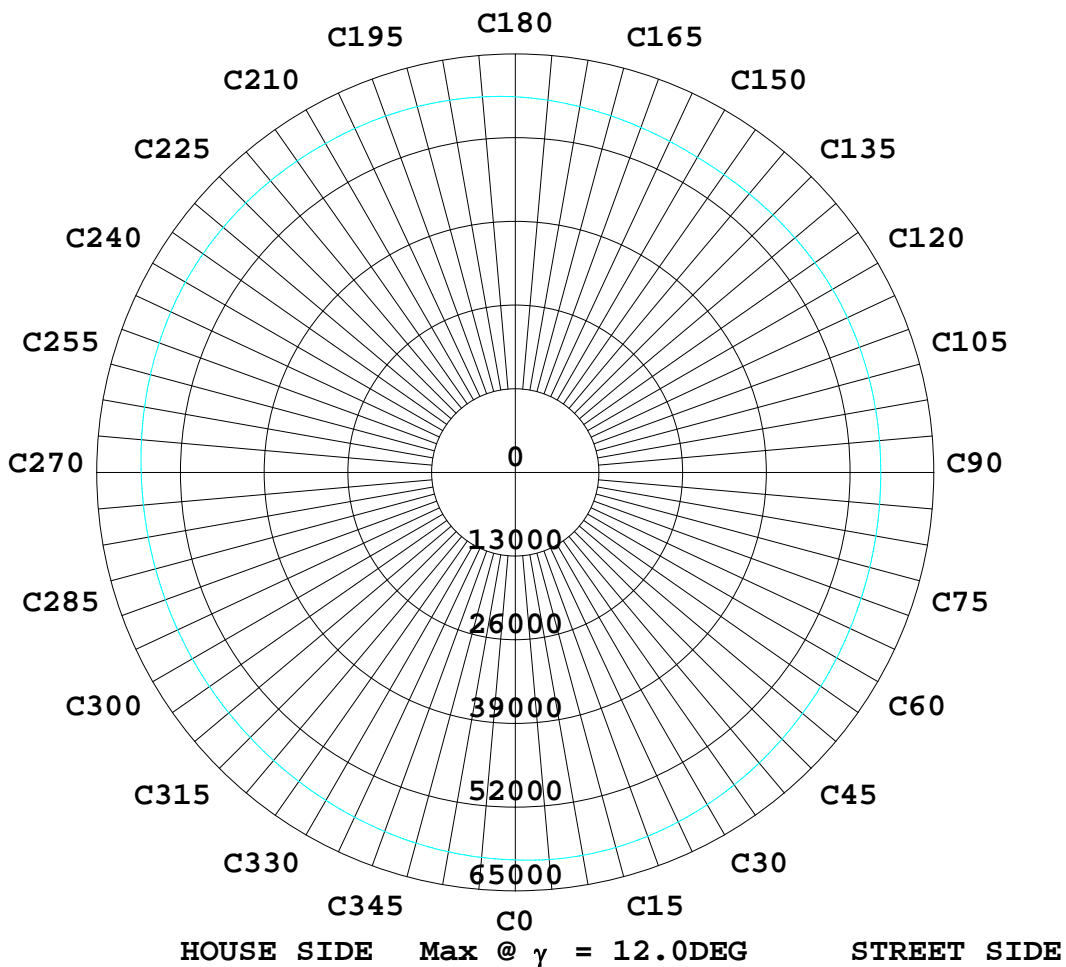
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Test Set: 5.0deg/s C-Gamma (TYPE C)
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ISOCANDELA DIAGRAM

Report number:

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



Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2018年03月23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.:

		AREA FLUX DIAGRAM																	UNIT:lm	Φ t	Φ a	
72		0.09	0.24	0.47	0.76	1.09	1.46	1.83	2.16	2.40	2.46	2.32	2.07	1.74	1.40	1.06	0.74	0.47	0.25	23.0	0.00	
64		0.17	0.41	0.77	1.24	1.82	2.50	3.25	3.96	4.51	4.65	4.34	3.76	3.03	2.31	1.65	1.12	0.68	0.35	40.5	0.00	
56		0.24	0.58	1.10	1.82	2.87	4.31	6.11	7.98	9.45	10.3	9.52	7.51	5.61	3.90	2.54	1.57	0.92	0.46	76.8	0.00	
48		0.32	0.76	1.46	2.66	4.69	8.11	19.9	43.1	66.1	74.9	65.2	42.2	17.8	7.00	4.01	2.20	1.16	0.56	362	38.5	
40		0.39	0.93	1.91	3.86	8.23	35.1	97.5	180	251	275	240	163	84.3	27.1	6.42	3.05	1.44	0.67	1379	1157	
32		0.44	1.08	2.43	5.37	26.4	111	264	459	605	646	574	404	210	82.6	16.2	4.08	1.76	0.76	3416	3274	
24		0.49	1.23	2.94	8.22	66.8	221	503	791	962	995	914	694	400	154	37.7	5.16	2.06	0.84	5761	5651	
		0.52	1.33	3.32	15.2	108	342	711	1023	1129	1121	1086	911	563	226	60.6	6.27	2.30	0.90	7310	7213	
		0.52	1.36	3.47	20.0	133	415	815	1098	1153	1122	1126	997	646	268	74.7	7.25	2.41	0.93	7883	7795	
		0.51	1.32	3.35	18.3	126	394	780	1067	1140	1135	1131	982	628	258	71.8	6.83	2.38	0.93	7747	7660	
		0.48	1.22	2.99	11.5	90.8	291	617	932	1082	1099	1056	852	510	202	52.9	5.58	2.21	0.88	6810	6712	
-24		0.44	1.07	2.47	5.94	45.7	168	402	667	844	893	815	603	330	126	28.1	4.57	1.94	0.81	4940	4823	
-32		0.38	0.90	1.92	4.00	13.4	75.1	190	345	475	518	457	311	161	59.0	10.1	3.55	1.63	0.72	2628	2475	
-40		0.31	0.73	1.43	2.75	5.38	16.6	59.2	120	171	191	167	113	53.7	14.8	5.03	2.64	1.33	0.62	927	641	
-48		0.24	0.56	1.04	1.90	3.33	5.51	9.19	19.4	31.6	37.8	33.0	19.5	9.42	5.46	3.32	1.92	1.05	0.52	185	0.00	
-56		0.18	0.40	0.74	1.29	2.06	3.08	4.28	5.44	6.29	6.70	6.51	5.73	4.52	3.23	2.18	1.37	0.80	0.41	55.2	0.00	
-64		0.11	0.26	0.50	0.86	1.30	1.81	2.32	2.77	3.10	3.28	3.25	2.98	2.53	1.97	1.43	0.96	0.58	0.30	30.3	0.00	
-72		0.05	0.14	0.29	0.51	0.77	1.05	1.29	1.50	1.64	1.72	1.74	1.66	1.49	1.21	0.90	0.62	0.38	0.20	17.1	0.00	
		-72	-64	-56	-48	-40	-32	-24	-16	HORIZONTAL(DEG)				16	24	32	40	48	56	64	72	
Φ t		5.87	14.5	32.6	106	642	2098	4487	6768	7939	8135	7691	6116	3631	1445	381	59.5	25.5	11.1	49633		
Φ a		0.00	0.00	0.00	0.00	379	1924	4335	6628	7801	7998	7552	5971	3473	1255	123	0.00	0.00	0.00		47425	

Test System:HOPPO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2018年03月23日

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

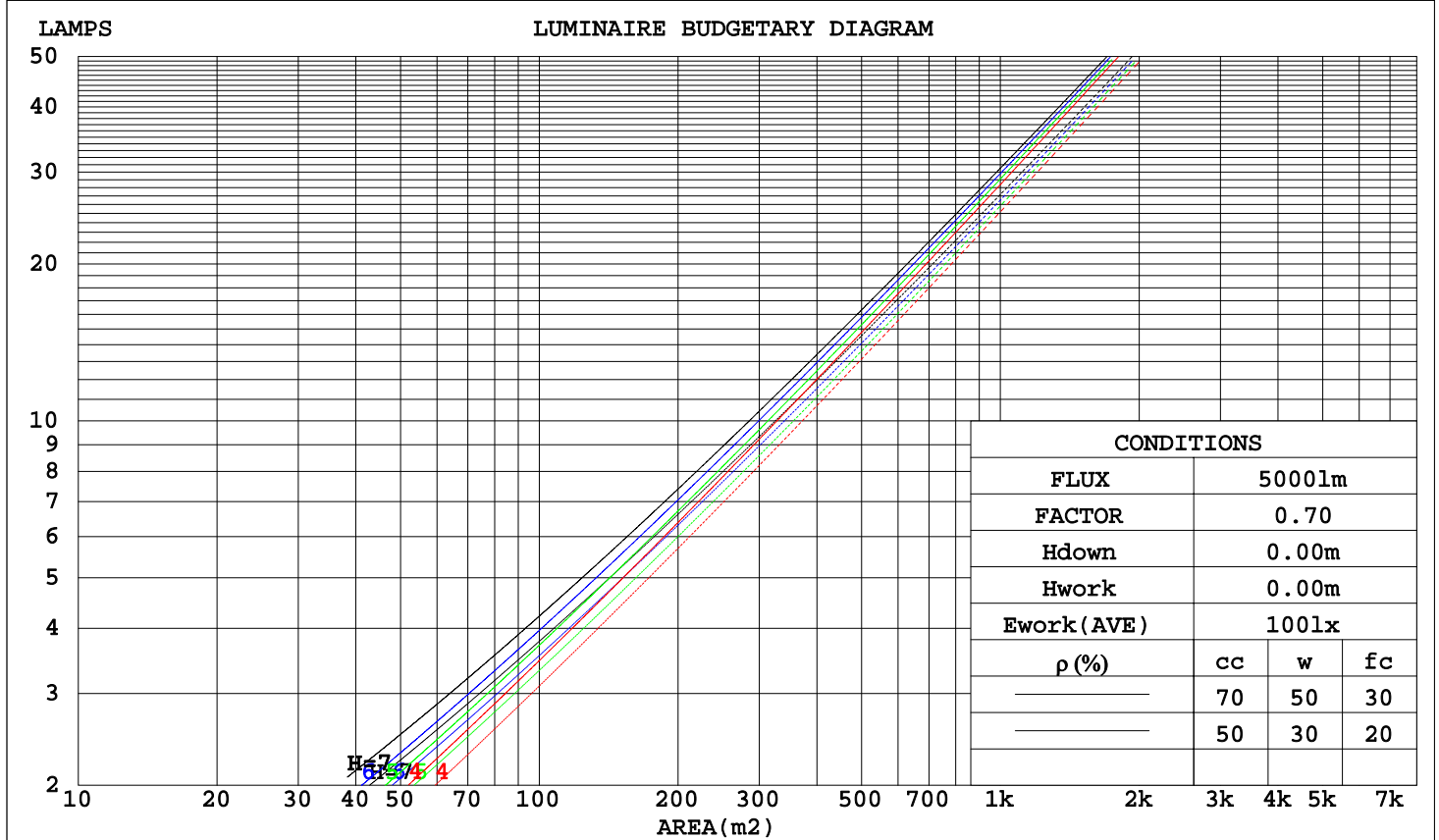
HONGPU GONIOPHOTOMETERS SYSTEM TEST REPORT

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	.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	.00	.97	1.02	.99	.96	.99	.96	.93	.96	.94	.91	.93	.91	.90	.88
3.0	.97	.92	.89	.96	.91	.88	.93	.89	.86	.91	.88	.85	.89	.86	.84	.82
4.0	.91	.86	.82	.90	.85	.81	.88	.84	.80	.86	.82	.79	.84	.81	.79	.77
5.0	.86	.80	.76	.85	.80	.76	.83	.78	.75	.81	.77	.74	.80	.76	.74	.72
6.0	.81	.75	.71	.80	.75	.71	.78	.74	.70	.77	.73	.70	.76	.72	.69	.68
7.0	.76	.70	.66	.75	.70	.66	.74	.69	.66	.73	.69	.65	.72	.68	.65	.64
8.0	.72	.66	.62	.71	.66	.62	.70	.65	.62	.69	.65	.62	.68	.64	.61	.60
9.0	.68	.63	.59	.68	.62	.59	.67	.62	.58	.66	.61	.58	.65	.61	.58	.57
10.0	.65	.59	.55	.64	.59	.55	.63	.59	.55	.63	.58	.55	.62	.58	.55	.54



Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2018年03月23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 Coefficients(WEC)									
0.0																
1.0	.172	.098	.031	.165	.094	.030	.153	.088	.028	.141	.081	.026	.131	.076	.024	
2.0	.164	.090	.028	.159	.087	.027	.148	.082	.026	.138	.078	.024	.129	.073	.023	
3.0	.156	.083	.025	.152	.081	.024	.143	.077	.023	.134	.074	.023	.127	.070	.022	
4.0	.149	.077	.023	.145	.076	.022	.137	.073	.022	.130	.070	.021	.123	.067	.020	
5.0	.142	.072	.021	.138	.071	.021	.132	.069	.020	.125	.066	.020	.120	.064	.019	
6.0	.136	.068	.019	.133	.067	.019	.127	.065	.019	.121	.063	.018	.116	.061	.018	
7.0	.130	.064	.018	.127	.063	.018	.122	.062	.018	.117	.060	.017	.112	.058	.017	
8.0	.124	.061	.017	.122	.060	.017	.117	.059	.017	.113	.057	.016	.109	.056	.016	
9.0	.119	.058	.016	.117	.057	.016	.113	.056	.016	.109	.055	.016	.105	.054	.015	
10.0	.115	.055	.015	.113	.054	.015	.109	.053	.015	.105	.052	.015	.102	.051	.015	

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						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	.086	.058	.054	.050	.018	.017	.016	
2.0	.155	.133	.113	.133	.114	.098	.091	.079	.068	.053	.046	.040	.017	.015	.013	
3.0	.143	.114	.090	.122	.098	.078	.084	.068	.055	.048	.040	.032	.016	.013	.011	
4.0	.132	.099	.073	.113	.085	.064	.078	.059	.045	.045	.035	.027	.015	.011	.009	
5.0	.123	.087	.060	.106	.075	.052	.073	.053	.037	.042	.031	.022	.014	.010	.007	
6.0	.116	.078	.050	.100	.067	.044	.069	.047	.031	.040	.028	.018	.013	.009	.006	
7.0	.109	.070	.043	.094	.061	.037	.065	.043	.026	.038	.025	.016	.012	.008	.005	
8.0	.104	.064	.037	.089	.055	.032	.062	.039	.023	.036	.023	.013	.012	.008	.004	
9.0	.099	.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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 Operators:
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Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
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 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	18.7	19.6	19.0	19.8	20.0	16.2	17.1	16.4	17.2	17.4
3H	18.6	19.4	18.8	19.6	19.8	16.0	16.8	16.3	17.0	17.2
4H	18.5	19.3	18.8	19.5	19.7	15.9	16.7	16.2	16.9	17.2
6H	18.4	19.1	18.7	19.4	19.6	15.8	16.6	16.1	16.8	17.1
8H	18.4	19.1	18.7	19.3	19.6	15.8	16.5	16.1	16.8	17.0
12H	18.3	19.0	18.6	19.3	19.5	15.8	16.4	16.1	16.7	17.0
4H 2H	18.5	19.3	18.8	19.5	19.7	15.9	16.7	16.2	16.9	17.2
3H	18.3	19.0	18.6	19.3	19.5	15.8	16.4	16.1	16.7	17.0
4H	18.2	18.9	18.6	19.1	19.5	15.7	16.3	16.0	16.6	16.9
6H	18.1	18.7	18.5	19.0	19.4	15.6	16.1	16.0	16.5	16.8
8H	18.1	18.6	18.5	19.0	19.3	15.5	16.0	15.9	16.4	16.8
12H	18.0	18.5	18.5	18.9	19.3	15.5	16.0	15.9	16.3	16.7
8H 4H	18.1	18.6	18.5	18.9	19.3	15.5	16.0	15.9	16.4	16.8
6H	18.0	18.4	18.4	18.8	19.2	15.5	15.9	15.9	16.3	16.7
8H	17.9	18.3	18.4	18.7	19.2	15.4	15.8	15.8	16.2	16.6
12H	17.9	18.2	18.4	18.6	19.1	15.3	15.7	15.8	16.1	16.6
12H 4H	18.0	18.5	18.4	18.9	19.3	15.5	16.0	15.9	16.3	16.7
6H	17.9	18.3	18.4	18.7	19.2	15.4	15.8	15.8	16.2	16.6
8H	17.9	18.2	18.4	18.6	19.1	15.3	15.7	15.8	16.1	16.6

Variations with the observer position at spacings:

S = 1.0H	+ 3.8 / -12.6	+ 2.6 / -11.3
1.5H	+ 6.2 / -11.9	+ 5.1 / -10.1
2.0H	+ 8.6 / - 6.4	+ 4.5 / - 2.4

CIE Pub.117 Corrected 49633 lm Total Lamp Luminous Flux.(8log(F/F0) = 13.6)

Test System:HOPPO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2018年03月23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	88	82	79	88	82	79	87	82	78	75
0.80	96	90	87	95	90	86	94	89	86	83
1.00	100	95	91	99	94	91	98	94	90	87
1.25	104	99	96	103	98	95	101	97	94	90
1.50	107	102	99	105	101	98	103	100	97	93
2.00	109	105	102	108	104	101	105	102	100	95
2.50	111	107	104	109	106	103	106	103	101	95
3.00	112	109	106	110	107	105	107	105	103	97
4.00	114	111	109	112	110	108	108	107	105	98
5.00	115	113	111	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:HOPPO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2018年03月23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: x10cd

C (DEG) \ γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330
0.0	5835	5818	5801	5785	5767	5748	5835	5818	5801	5785	5767	5748
5.0	5839	5838	5818	5830	5877	5877	5982	5958	5909	5806	5750	5733
10.0	5982	5942	5796	5766	5805	5792	5950	5983	5965	5821	5774	5822
15.0	5972	5879	5623	5431	5366	5289	5515	5630	5766	5693	5764	5882
20.0	5561	5380	5004	4574	4315	4170	4515	4733	5022	5182	5417	5563
25.0	4573	4254	3846	3382	3070	2871	3238	3428	3733	4066	4442	4668
30.0	3299	2960	2569	2099	1791	1718	1882	2068	2396	2782	3182	3392
35.0	1905	1737	1366	1050	882	765	950	1053	1268	1551	1872	2070
40.0	972	799	651	450	353	297	383	470	575	742	926	1028
45.0	417	325	195	88.1	63.7	47.1	55.4	76.3	211	276	401	459
50.0	67.0	53.1	48.7	39.4	34.3	28.6	33.6	40.3	49.7	60.5	84.8	76.1
55.0	38.2	33.2	31.0	24.6	21.8	17.6	20.8	25.2	30.4	36.7	38.7	41.4
60.0	24.0	21.3	19.8	15.9	14.0	11.5	13.3	16.2	19.3	23.2	23.9	25.3
65.0	15.6	14.1	13.1	10.7	9.65	7.57	8.87	11.1	13.3	15.7	15.6	16.2
70.0	10.7	9.45	9.22	7.22	6.48	4.84	5.70	7.44	8.91	10.9	10.6	10.9
75.0	7.05	6.09	5.96	4.46	3.94	2.78	3.26	4.49	5.53	7.20	6.93	7.26
80.0	4.16	3.38	3.33	2.17	1.90	1.11	1.41	2.19	2.89	4.21	4.10	4.40
85.0	2.01	1.29	1.30	0.45	0.56	0.36	0.14	0.42	0.66	1.69	1.78	2.16
90.0	0.53	0.37	0.59	0.50	0.70	0.60	0.21	0.27	0.10	0.29	0.10	0.42

Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2018年03月23日

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