

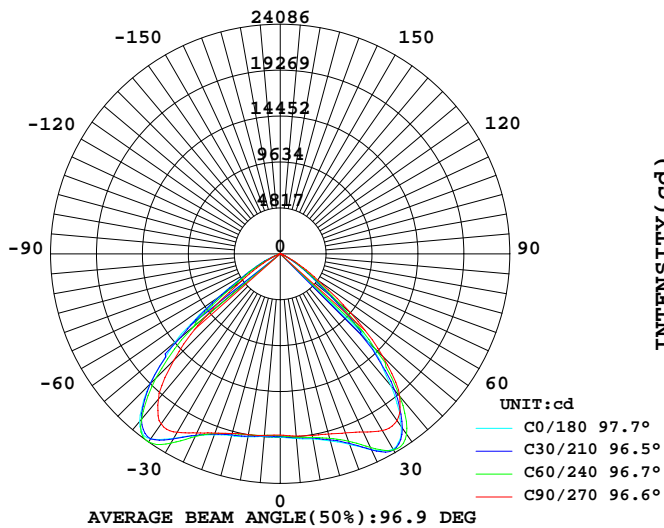
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

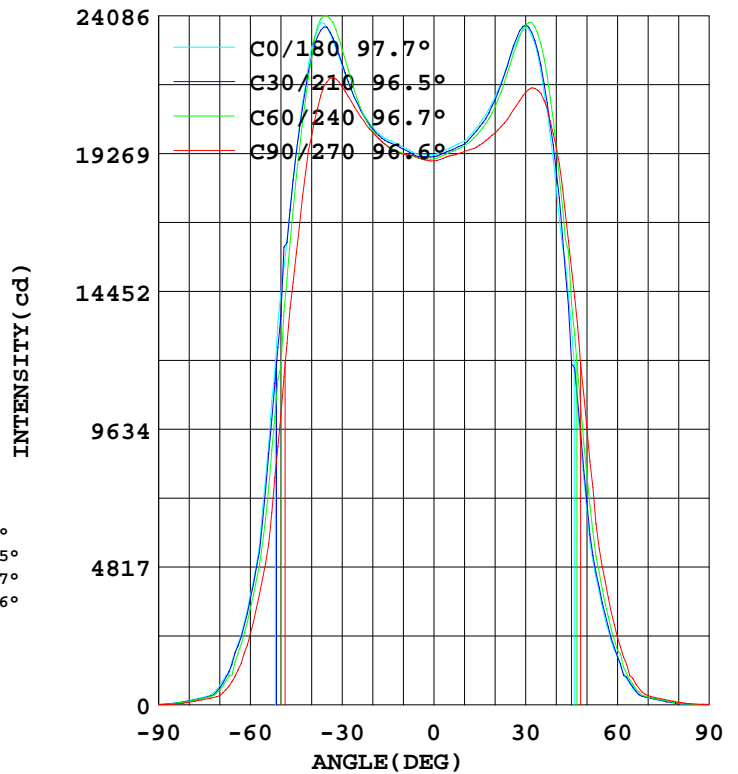
MANUFACTURER:	Address:		
NAME:	TYPE:	WEIGHT:	
SPECIFICATION:	DIMENSION:	SERIAL No.:	

DATA OF LAMP		I _{max} (cd)	24086	S/MH(C0/180)	1.58
MODEL		EFFICIENCY(%)	100.0	S/MH(C90/270)	1.49
NOMINAL POWER(W)	400	TOTAL FLUX(lm)	50133	Voltage(V)	218.0
RATED VOLTAGE(V)	220	EFFICIENCY(lm/W)	124.7	Current(A)	1.873
NOMINAL FLUX(lm)	50133.3	η up(%)	0.0	Power(W)	402.0
LAMPS QUANTITY	1	η down(%)	100.0	Power Factor(PF)	0.984
TEST VOLTAGE(V)	218.0	Effective Flux(lm)	48794.9	EEL	0.112

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



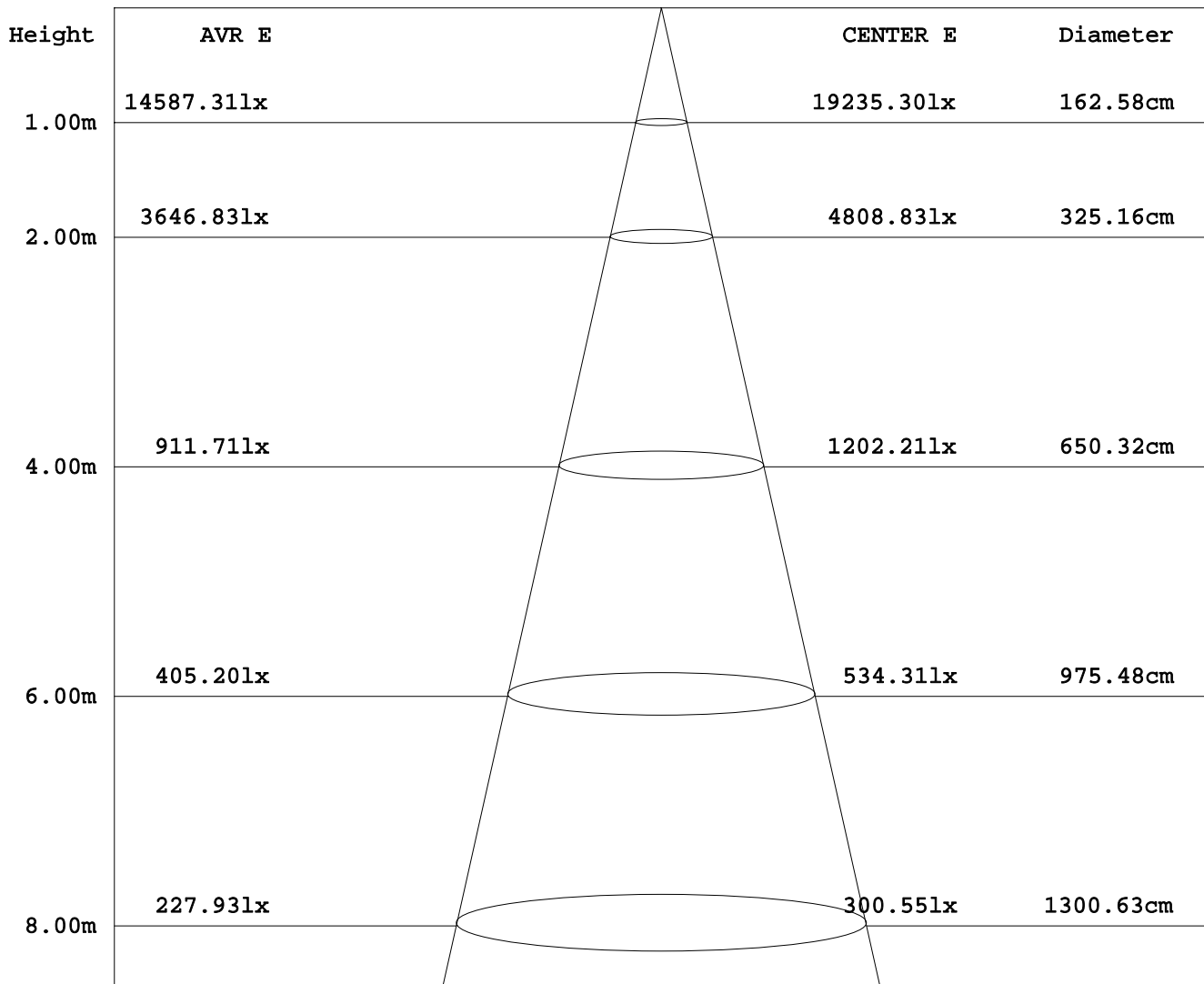
Test System:HOPPO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2017年06月10日

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:78.2deg

Test System:HOPPO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2017年06月10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	1926	1914	1912	1910	1944	1933	1918	1898	0- 5	457.2	457.2
10.0	1949	1935	1925	1935	1971	1958	1935	1918	5- 10	1380	1838
15.0	1974	1959	1951	1990	2032	2012	1957	1946	10- 15	2323	4161
20.0	2020	2011	2002	2085	2126	2102	1999	2000	15- 20	3312	7473
25.0	2103	2109	2073	2226	2266	2254	2062	2098	20- 25	4402	11875
30.0	2234	2267	2161	2349	2366	2376	2141	2252	25- 30	5629	17504
35.0	2369	2389	2177	2250	2213	2272	2137	2364	30- 35	6775	24279
40.0	2295	2262	1986	1897	1807	1907	1950	2220	35- 40	7301	31580
45.0	1932	1890	1578	1340	1306	1296	1520	1820	40- 45	6793	38373
50.0	1443	1270	1014	737.9	683.3	757.1	969.0	1248	45- 50	5280	43653
55.0	794.4	700.2	493.8	361.5	341.9	381.6	483.4	663.9	50- 55	3282	46935
60.0	383.9	354.6	248.9	184.4	175.5	179.4	236.2	320.4	55- 60	1737	48671
65.0	180.4	165.6	99.17	66.06	58.47	67.51	93.05	141.1	60- 65	850.6	49522
70.0	68.72	56.02	32.13	26.45	24.40	26.65	32.66	51.08	65- 70	340.8	49863
75.0	27.87	24.82	19.40	15.31	13.19	15.53	19.82	24.73	70- 75	145.2	50008
80.0	16.13	13.82	9.313	6.096	4.698	5.862	9.360	13.92	75- 80	78.96	50087
85.0	6.483	5.009	2.779	1.931	1.494	1.834	3.009	5.074	80- 85	33.93	50121
90.0	1.972	1.668	1.278	1.708	1.893	1.765	1.566	1.652	85- 90	12.47	50133
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: $\times 10\text{cd}$									UNIT:lm	

Test System:HOPPO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2017年06月10日

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

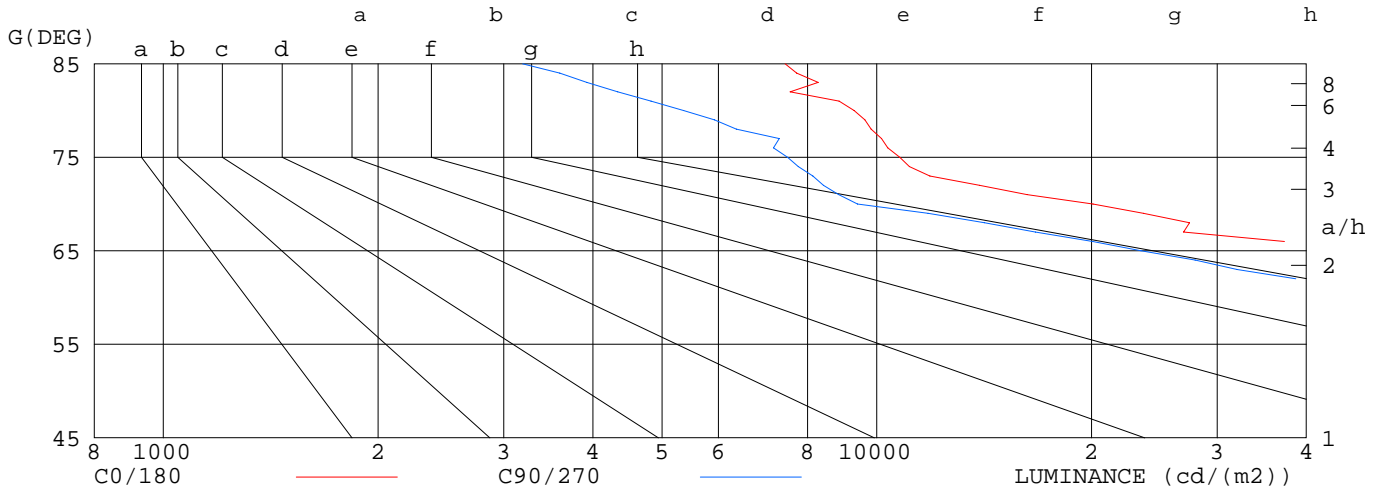
LUMINANCE LIMITATION CURVES

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



G (DEG)	LUMINANCE cd/(m2)	
	C0/180	C90/270
85	7439	3189
80	9294	5363
75	10770	7499
70	20095	9396
65	42702	23466
60	76781	49786
55	138502	86105
50	224488	157765
45	273275	223108

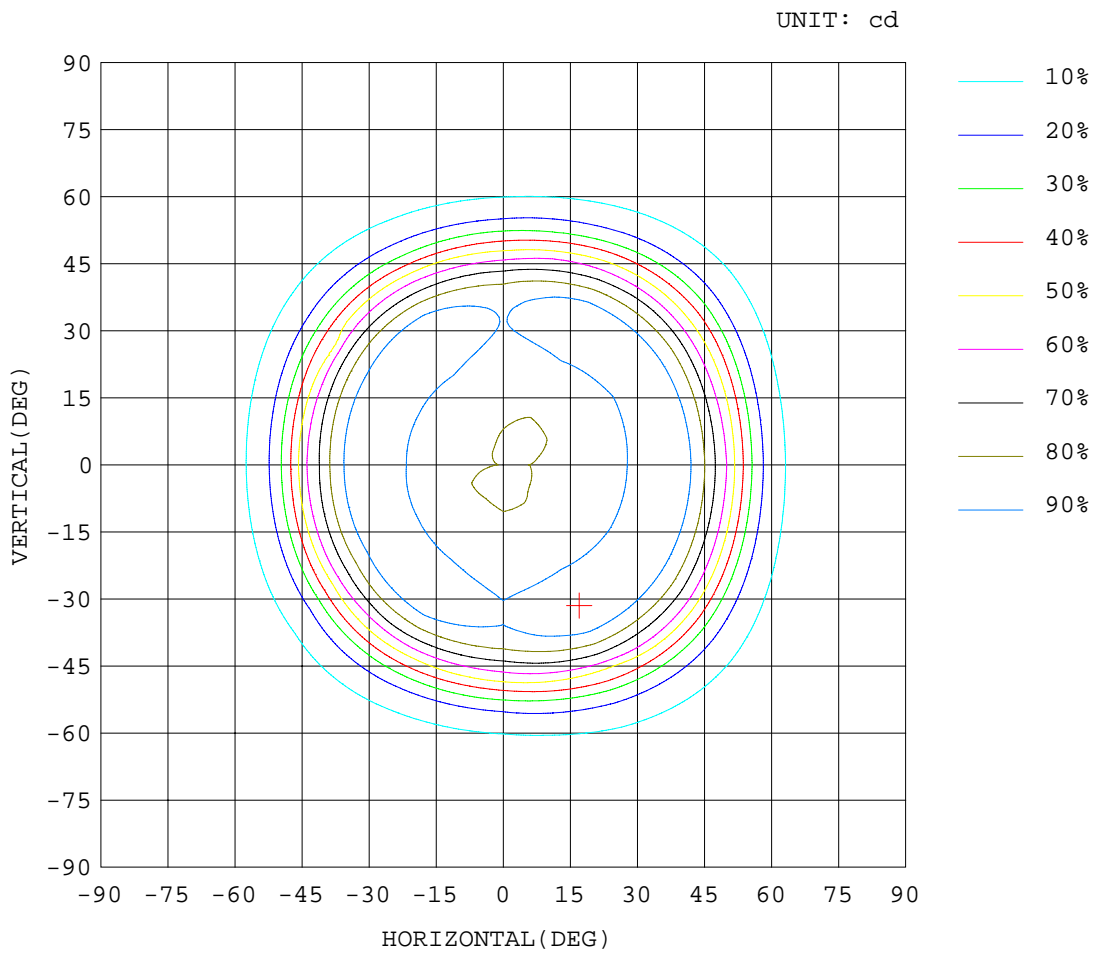
Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2017年06月10日

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.:



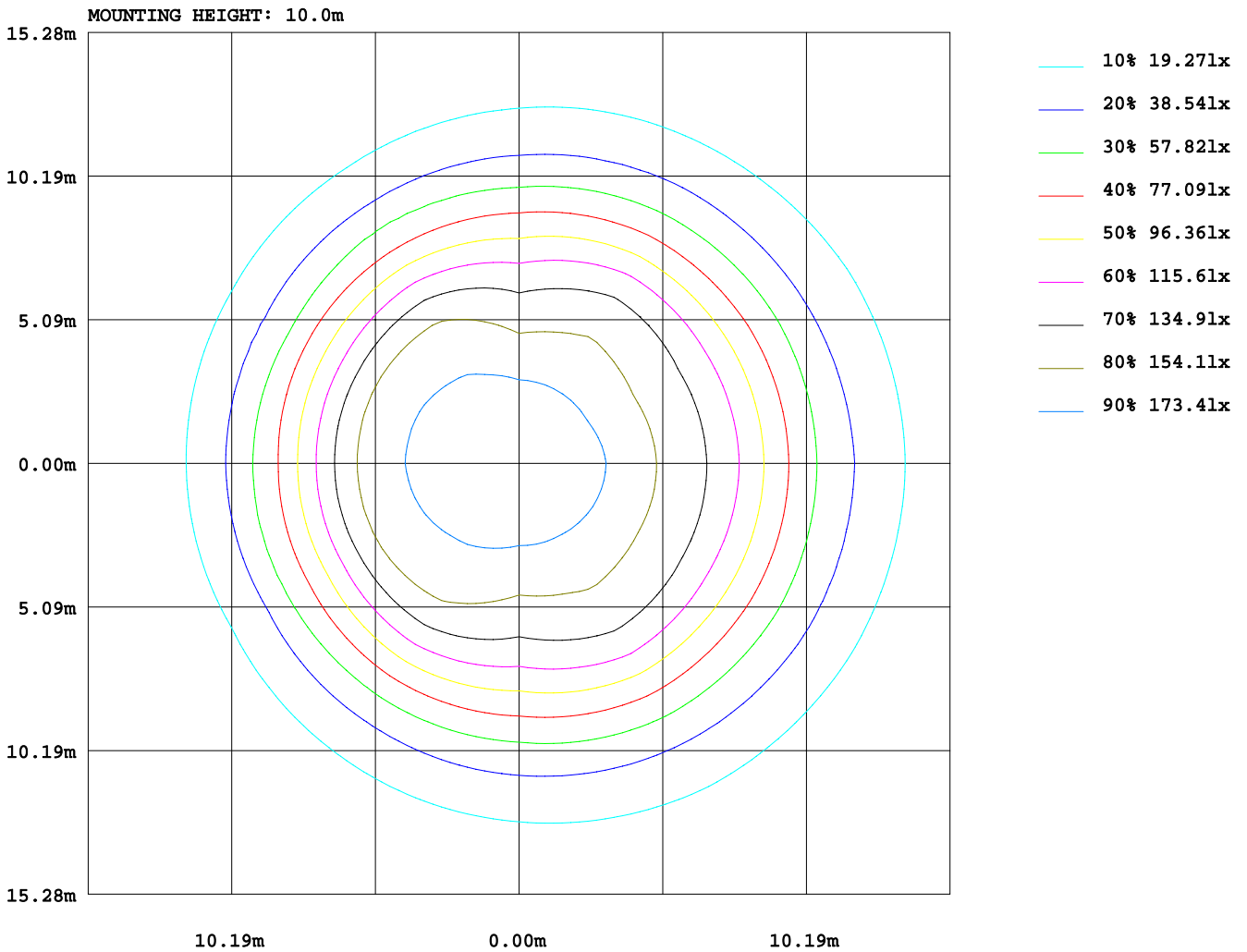
Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2017年06月10日

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.:



Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2017年06月10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
90		0.05	0.13	0.22	0.30	0.39	0.50	0.67	0.90	1.10	1.21	1.21	1.11	1.00	0.86	0.66	0.43	0.22	0.06	11.0	0.00	
80		0.04	0.13	0.32	0.76	1.53	2.61	3.82	4.99	5.84	6.20	5.98	5.29	4.36	3.25	2.11	1.08	0.40	0.08	48.8	0.00	
70		0.04	0.19	0.78	2.18	4.41	7.75	14.0	22.6	30.0	32.9	30.0	22.5	14.2	7.86	4.33	2.12	0.69	0.10	197	0.00	
60		0.04	0.32	1.58	4.30	12.3	34.6	70.0	113	150	163	144	103	60.4	27.9	9.72	3.30	1.05	0.13	899	735	
50		0.05	0.52	2.53	9.62	39.3	106	222	356	439	464	429	323	183	77.2	24.9	5.51	1.40	0.17	2684	2606	
40		0.05	0.74	3.67	22.1	86.1	247	465	613	648	656	656	560	378	173	50.1	9.88	1.73	0.20	4571	4517	
30		0.06	0.94	5.68	38.8	157	403	615	683	650	637	658	640	519	286	83.8	15.8	2.06	0.22	5396	5353	
		0.06	1.08	7.85	54.3	229	501	643	631	607	595	596	603	571	366	120	21.5	2.39	0.24	5550	5514	
		0.07	1.15	9.36	63.7	271	538	627	601	590	581	579	583	580	405	144	25.2	2.63	0.25	5600	5565	
		0.07	1.15	9.30	63.0	270	536	625	598	585	584	582	585	581	407	145	25.3	2.62	0.25	5601	5565	
		0.06	1.07	7.69	52.6	227	497	638	624	602	596	599	610	575	372	121	21.9	2.37	0.24	5548	5510	
-30		0.06	0.93	5.47	36.9	150	400	610	673	648	639	659	647	527	295	85.3	16.3	2.03	0.22	5396	5353	
-40		0.05	0.73	3.52	21.0	79.4	243	467	616	655	667	669	576	394	178	52.2	10.0	1.69	0.19	4634	4578	
-50		0.04	0.50	2.42	8.89	36.9	102	225	365	454	481	447	340	193	81.7	26.7	5.42	1.36	0.16	2772	2692	
-60		0.04	0.30	1.51	4.01	11.9	33.7	69.2	115	155	172	156	115	67.6	30.9	9.86	3.13	1.00	0.13	947	794	
-70		0.04	0.17	0.69	2.08	4.36	8.13	14.9	24.0	32.1	36.2	34.5	26.6	16.1	8.12	4.06	1.99	0.65	0.10	215	2.18	
-80		0.04	0.11	0.26	0.68	1.57	2.82	4.10	5.14	5.84	6.28	6.31	5.71	4.59	3.24	1.96	0.96	0.36	0.08	50.1	0.00	
-90		0.05	0.12	0.19	0.27	0.40	0.59	0.79	0.96	1.08	1.21	1.32	1.33	1.15	0.86	0.57	0.36	0.19	0.06	11.5	0.00	
		-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL(DEG)				20	30	40	50	60	70	80	90	
Φ t		0.90	10.2	63.0	386	1582	3663	5314	6047	6259	6320	6252	5750	4673	2725	888	171	24.9	2.88	50133		
Φ a		0.00	0.00	0.00	235	1479	3572	5229	5964	6178	6238	6170	5669	4587	2636	784	44.0	0.00	0.00		48795	

Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2017年06月10日

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

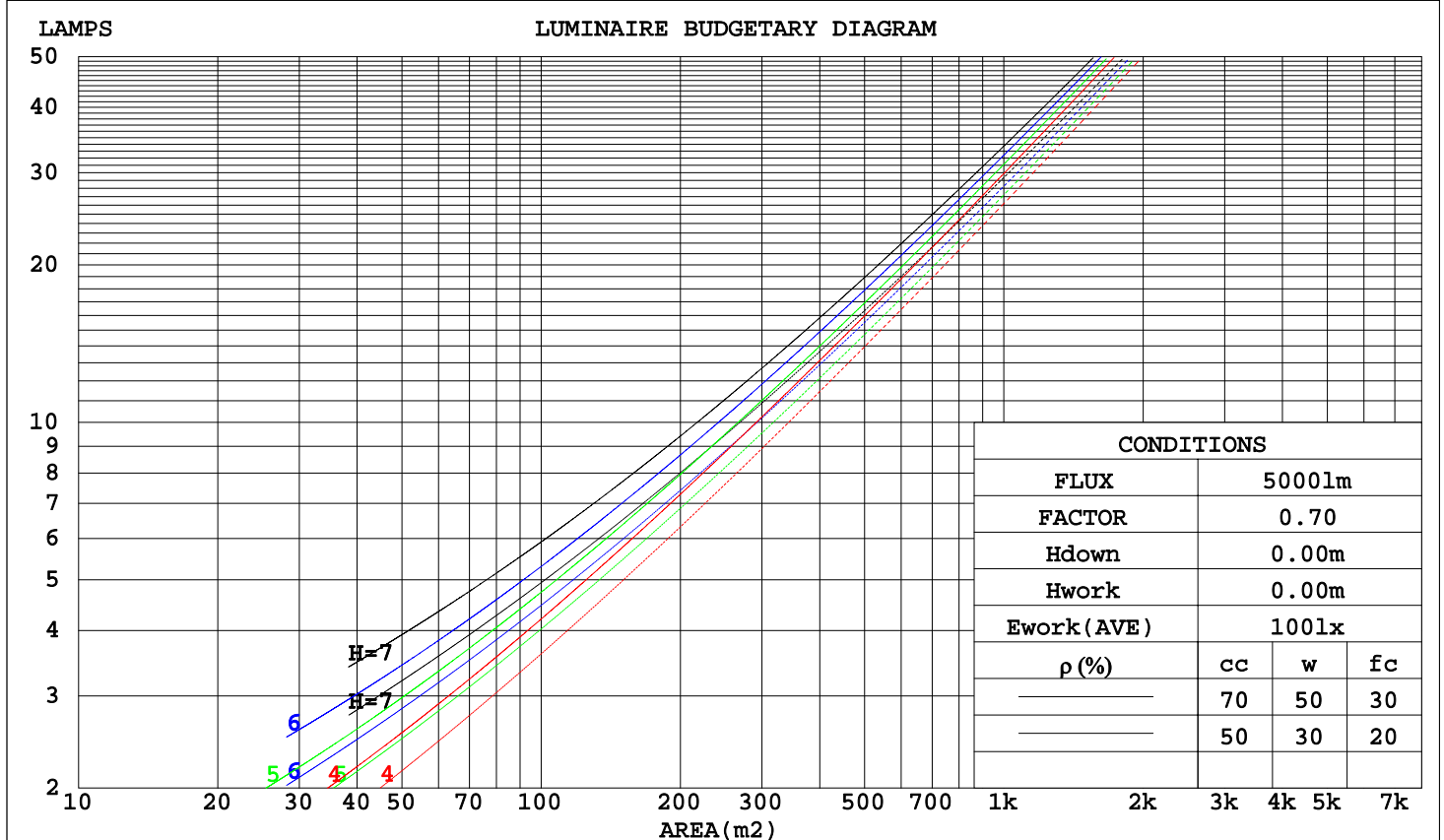
HONGPU GONIOPHOTOMETERS SYSTEM TEST REPORT

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	1.08	1.05	1.02	1.06	1.03	1.01	1.02	.90	.97	.98	.96	.94	.95	.93	.92	.90
2.0	.98	.92	.88	.96	.91	.87	.92	.88	.85	.89	.86	.83	.86	.84	.81	.79
3.0	.88	.81	.76	.86	.80	.75	.84	.78	.74	.81	.77	.73	.79	.75	.72	.70
4.0	.79	.72	.66	.78	.71	.66	.76	.70	.65	.73	.68	.64	.71	.67	.63	.62
5.0	.72	.64	.58	.71	.63	.58	.69	.62	.58	.67	.61	.57	.65	.60	.56	.55
6.0	.65	.57	.52	.64	.57	.51	.63	.56	.51	.61	.55	.51	.59	.54	.50	.48
7.0	.59	.52	.46	.59	.51	.46	.57	.50	.46	.56	.50	.45	.54	.49	.45	.43
8.0	.54	.47	.41	.54	.46	.41	.52	.46	.41	.51	.45	.41	.50	.45	.41	.39
9.0	.50	.42	.37	.49	.42	.37	.48	.42	.37	.47	.41	.37	.46	.41	.37	.35
10.0	.46	.39	.34	.45	.38	.34	.44	.38	.34	.44	.38	.33	.43	.37	.33	.32



Test System:HOPPO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2017年06月10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	.227	.129	.041	.221	.126	.040	.208	.119	.038	.196	.113	.036	.185	.107	.035	
2.0	.224	.123	.038	.218	.120	.037	.207	.115	.036	.197	.110	.035	.187	.106	.033	
3.0	.216	.115	.034	.210	.113	.034	.201	.109	.033	.192	.105	.032	.183	.102	.031	
4.0	.206	.107	.031	.201	.105	.031	.193	.102	.031	.185	.099	.030	.177	.096	.029	
5.0	.196	.100	.029	.192	.098	.029	.184	.096	.028	.177	.093	.028	.170	.091	.027	
6.0	.186	.093	.027	.182	.092	.026	.175	.090	.026	.169	.088	.026	.163	.086	.026	
7.0	.176	.087	.025	.173	.086	.025	.167	.084	.024	.161	.083	.024	.156	.081	.024	
8.0	.167	.082	.023	.164	.081	.023	.159	.079	.023	.154	.078	.022	.149	.077	.022	
9.0	.159	.077	.021	.156	.076	.021	.151	.075	.021	.147	.074	.021	.142	.072	.021	
10.0	.151	.072	.020	.149	.072	.020	.144	.071	.020	.140	.070	.020	.136	.069	.020	

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	.175	.157	.141	.149	.135	.121	.102	.093	.084	.059	.054	.049	.019	.017	.016	
2.0	.163	.132	.106	.140	.114	.092	.096	.079	.064	.055	.046	.038	.018	.015	.012	
3.0	.154	.114	.082	.132	.098	.071	.091	.068	.050	.052	.040	.029	.017	.013	.010	
4.0	.146	.100	.065	.125	.086	.056	.086	.060	.040	.050	.035	.023	.016	.011	.008	
5.0	.139	.089	.052	.120	.077	.046	.082	.054	.032	.048	.032	.019	.015	.010	.006	
6.0	.133	.081	.043	.114	.070	.038	.079	.049	.027	.046	.029	.016	.015	.009	.005	
7.0	.127	.074	.036	.109	.064	.032	.075	.045	.022	.044	.026	.013	.014	.009	.004	
8.0	.121	.068	.031	.104	.059	.027	.072	.041	.019	.042	.024	.011	.014	.008	.004	
9.0	.116	.063	.027	.100	.055	.024	.069	.038	.017	.040	.023	.010	.013	.007	.003	
10.0	.111	.059	.024	.096	.051	.021	.067	.036	.015	.039	.021	.009	.013	.007	.003	

Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2017年06月10日

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	30.4	31.7	30.7	31.9	32.1	29.5	30.8	29.8	31.0	31.2
3H	30.3	31.5	30.6	31.7	31.9	29.4	30.6	29.7	30.8	31.0
4H	30.2	31.3	30.5	31.6	31.8	29.3	30.4	29.6	30.6	30.9
6H	30.1	31.2	30.4	31.4	31.7	29.2	30.2	29.5	30.5	30.8
8H	30.1	31.1	30.4	31.3	31.6	29.2	30.1	29.5	30.4	30.7
12H	30.0	31.0	30.4	31.3	31.6	29.1	30.1	29.4	30.3	30.6
4H 2H	30.3	31.4	30.6	31.6	31.9	29.5	30.6	29.8	30.8	31.1
3H	30.2	31.1	30.5	31.4	31.7	29.3	30.3	29.7	30.6	30.8
4H	30.1	31.0	30.5	31.3	31.6	29.2	30.1	29.6	30.4	30.7
6H	30.0	30.8	30.4	31.1	31.5	29.2	29.9	29.5	30.2	30.6
8H	30.0	30.7	30.4	31.0	31.4	29.1	29.8	29.5	30.2	30.5
12H	29.9	30.6	30.4	31.0	31.4	29.1	29.7	29.5	30.1	30.5
8H 4H	30.0	30.7	30.4	31.0	31.4	29.1	29.8	29.5	30.2	30.5
6H	29.9	30.5	30.3	30.9	31.3	29.0	29.6	29.5	30.0	30.4
8H	29.9	30.4	30.3	30.8	31.2	29.0	29.5	29.5	29.9	30.4
12H	29.8	30.2	30.3	30.7	31.2	29.0	29.4	29.4	29.8	30.3
12H 4H	29.9	30.6	30.4	30.9	31.3	29.1	29.7	29.5	30.1	30.5
6H	29.9	30.4	30.3	30.8	31.2	29.0	29.5	29.4	29.9	30.4
8H	29.8	30.2	30.3	30.7	31.2	29.0	29.4	29.4	29.8	30.3
Variations with the observer position at spacings:										
S = 1.0H	+ 1.9 / - 3.0					+ 2.3 / - 4.2				
1.5H	+ 1.0 / - 2.2					+ 0.9 / - 2.3				
2.0H	+ 3.5 / - 5.9					+ 3.8 / - 5.9				

CIE Pub.117 Corrected 50133 lm Total Lamp Luminous Flux. (8log(F/F0) = 13.6)

Test System:HOPPO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2017年06月10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	68	58	52	67	58	52	66	57	52	46
0.80	78	69	63	77	68	63	76	68	62	57
1.00	87	78	72	86	78	72	84	78	72	66
1.25	93	85	80	92	85	80	90	83	79	73
1.50	97	90	85	96	89	85	93	88	84	78
2.00	103	97	92	101	96	91	98	93	90	83
2.50	105	100	95	103	98	94	100	96	93	86
3.00	108	103	99	106	101	98	102	99	96	88
4.00	110	106	103	108	105	102	104	101	99	91
5.00	112	108	105	110	106	104	105	103	101	92
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

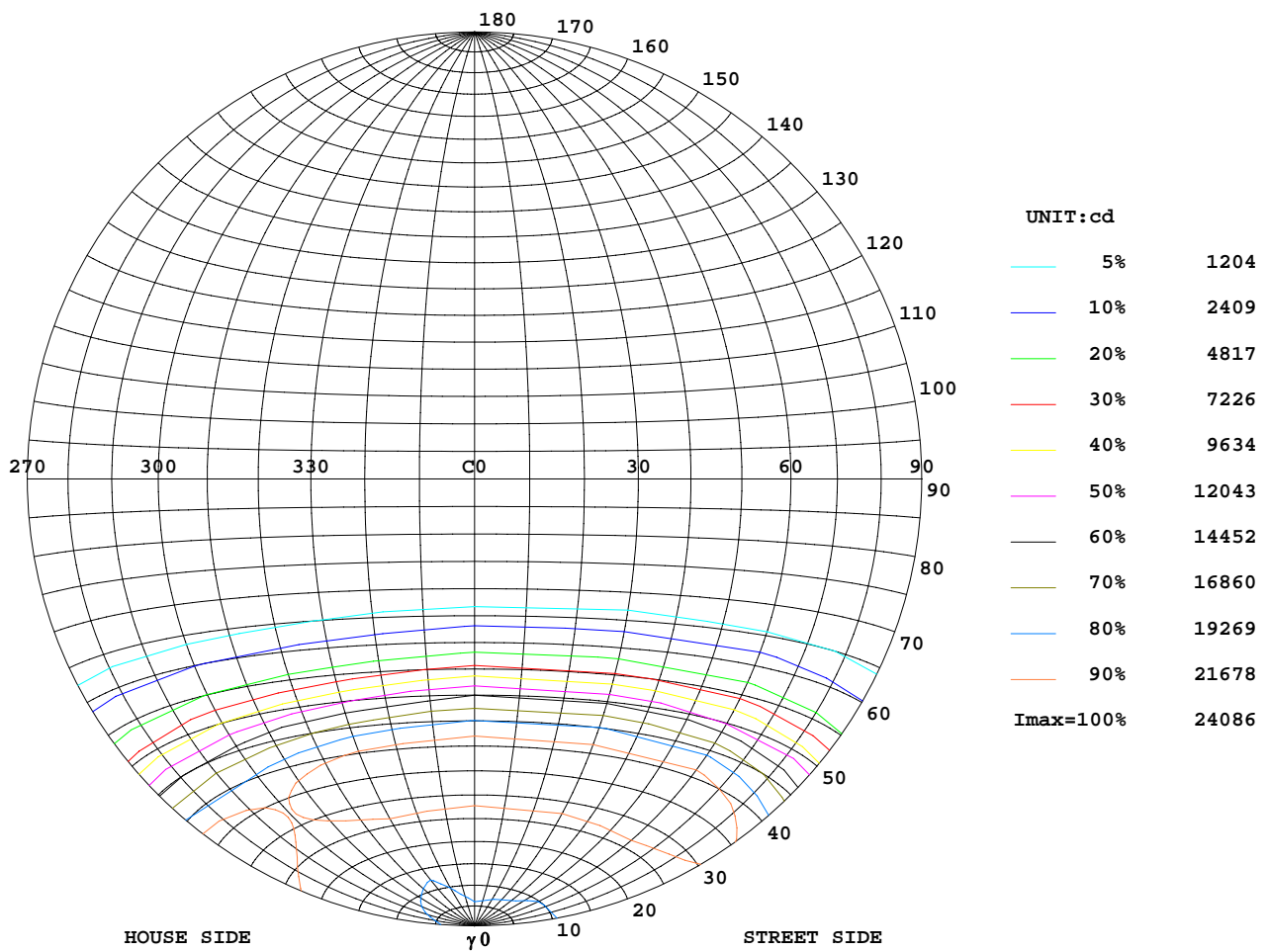
Test System:HOPPO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2017年06月10日

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

ISOCANDELA DIAGRAM

Report number:

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



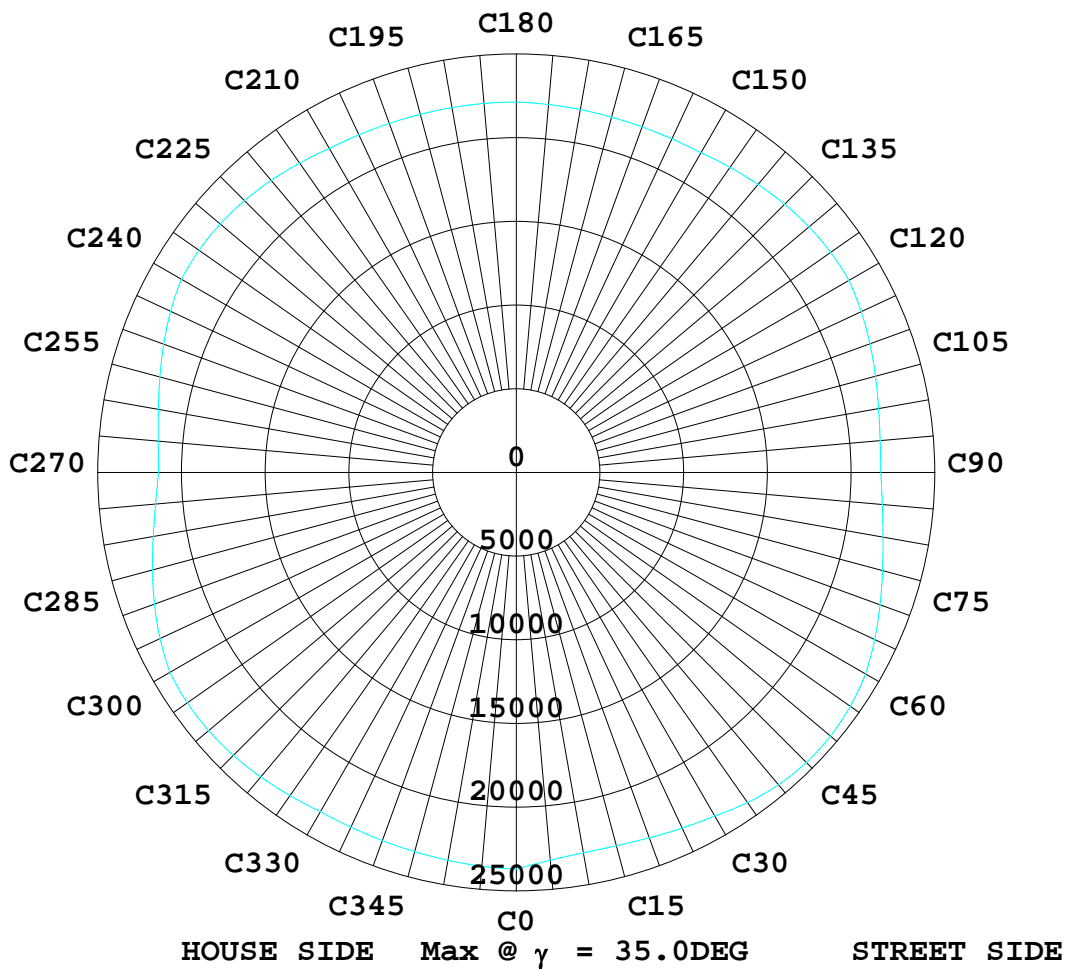
Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2017年06月10日

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:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2017年06月10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	1924	1916	1908	1901	1895	1889	1924	1916	1908	1901	1895	1889
5.0	1926	1917	1911	1912	1911	1909	1944	1936	1930	1918	1906	1891
10.0	1949	1942	1928	1925	1934	1936	1971	1961	1955	1935	1917	1918
15.0	1974	1967	1952	1951	1981	1999	2032	2021	2004	1957	1947	1945
20.0	2020	2014	2007	2002	2068	2102	2126	2115	2090	1999	2005	1994
25.0	2103	2102	2117	2073	2201	2251	2266	2269	2240	2062	2120	2077
30.0	2234	2242	2292	2161	2335	2363	2366	2376	2376	2141	2296	2207
35.0	2369	2369	2409	2177	2294	2206	2213	2235	2310	2137	2389	2340
40.0	2295	2265	2259	1986	1968	1826	1807	1865	1950	1950	2201	2239
45.0	1932	1932	1848	1578	1434	1245	1306	1191	1401	1520	1757	1884
50.0	1443	1360	1181	1014	820	656	683	710	805	969	1180	1315
55.0	794	750	650	494	399	324	342	358	405	483	591	737
60.0	384	372	338	249	192	177	176	168	191	236	290	351
65.0	180	182	149	99.1	76.7	55.3	58.4	62.8	72.2	93.0	122	160
70.0	68.7	59.7	52.2	32.1	29.2	23.6	24.4	25.7	27.5	32.6	43.0	59.0
75.0	27.8	25.2	24.4	19.4	17.5	13.0	13.1	14.3	16.7	19.8	22.4	27.0
80.0	16.1	14.2	13.3	9.31	7.67	4.52	4.69	5.45	6.27	9.36	12.0	15.8
85.0	6.48	5.05	4.96	2.77	2.44	1.41	1.49	1.86	1.80	3.00	3.93	6.21
90.0	1.97	1.66	1.67	1.27	1.70	1.71	1.89	1.93	1.59	1.56	1.35	1.95

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