

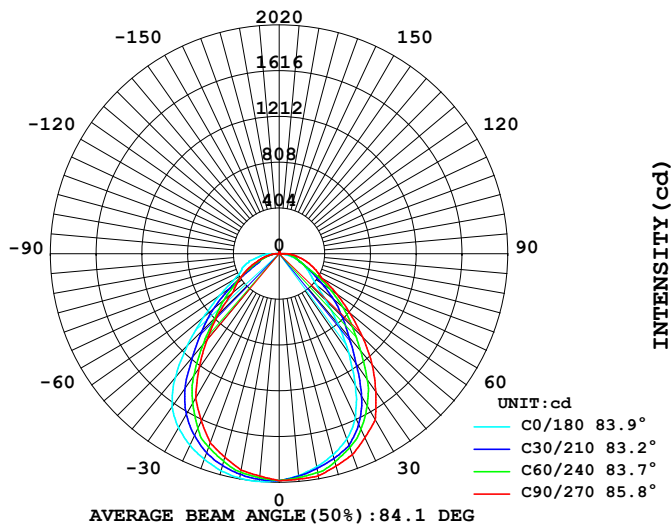
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

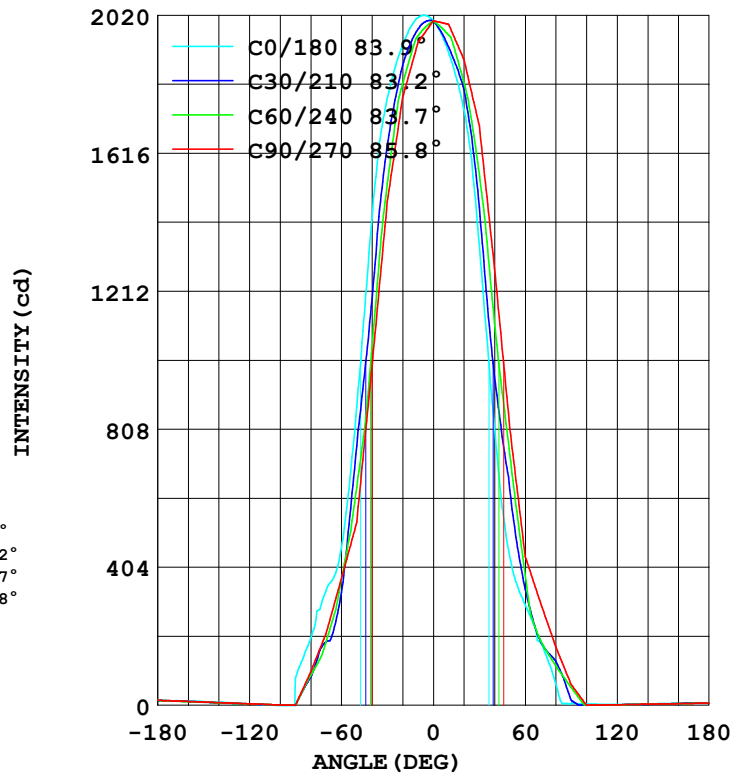
MANUFACTURER:	Address:		
NAME:	TYPE:	WEIGHT:	
SPECIFICATION:	DIMENSION:	SERIAL No.:	

DATA OF LAMP		Imax (cd)	2020	S/MH (C0/180)	1.31
MODEL		EFFICIENCY (%)	100.0	S/MH (C90/270)	1.12
NOMINAL POWER (W)	36	TOTAL FLUX (lm)	4087.6	Voltage (V)	229.0
RATED VOLTAGE (V)	230	EFFICIENCY (lm/W)	111.5	Current (A)	0.191
NOMINAL FLUX (lm)	4087.6	η up (%)	0.8	Power (W)	36.66
LAMPS QUANTITY	1	η down (%)	99.2	Power Factor (PF)	0.964
TEST VOLTAGE (V)	229.0	Effective Flux (lm)	0.0	EET	0.000

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



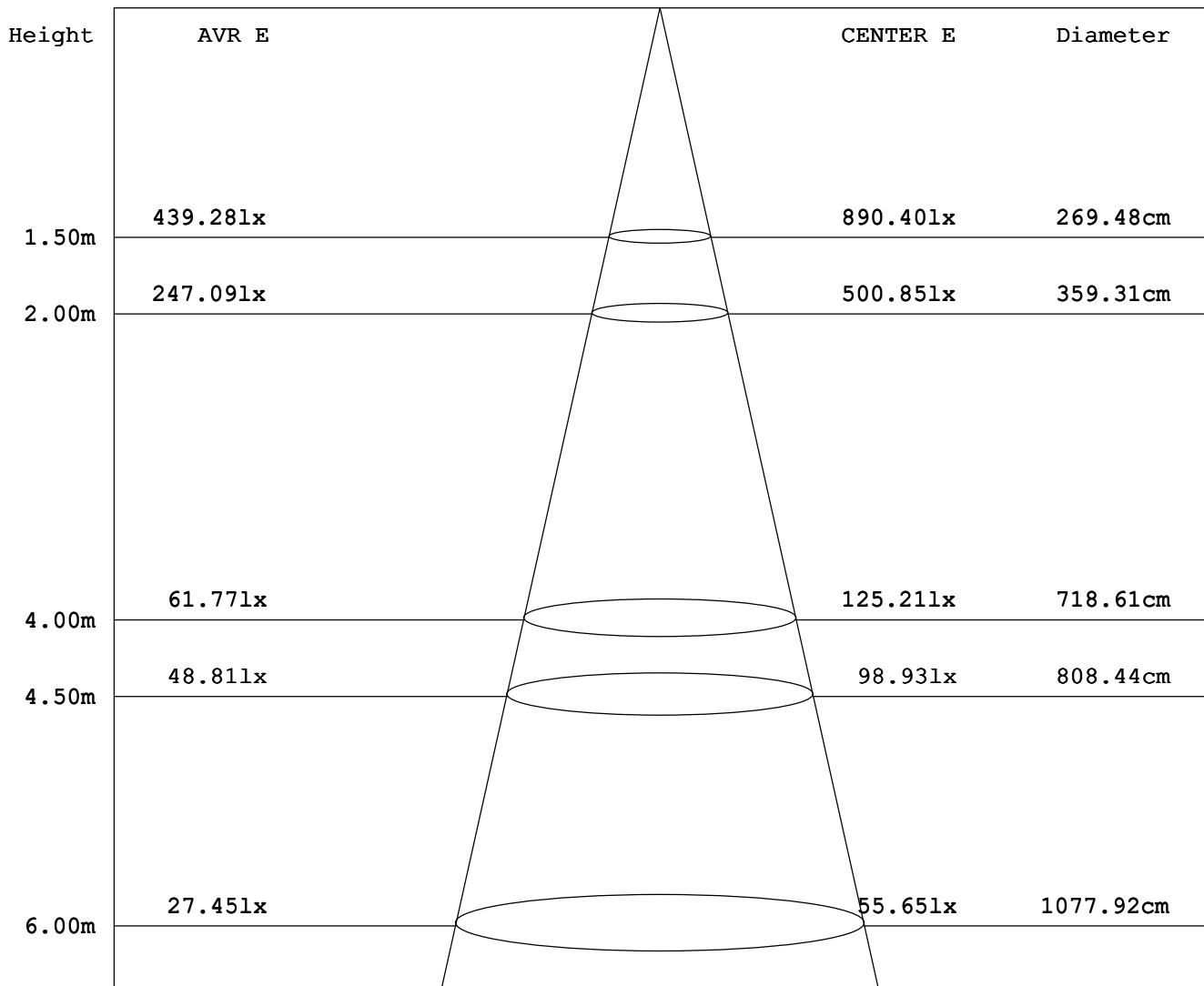
Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2019-10-18

Test Set: 10.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:10.000 m
 Remarks:

AVERAGE AND CENTER E Figure

Report number:

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



Angle:83.9deg

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

Test Set: 10.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:10.000 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	2019	1993	1972	1958	1968	1977	1998	2012	0- 5	47.64	47.64
10.0	2013	1968	1940	1906	1909	1944	1993	2007	5- 10	141.0	188.7
15.0	1984	1922	1860	1836	1837	1894	1941	1983	10- 15	229.1	417.9
20.0	1934	1839	1779	1713	1743	1799	1890	1929	15- 20	307.4	725.3
25.0	1865	1742	1627	1559	1596	1680	1793	1866	20- 25	372.0	1097
30.0	1777	1580	1475	1354	1347	1498	1697	1762	25- 30	415.3	1513
35.0	1651	1327	1234	1143	1074	1268	1488	1597	30- 35	429.9	1943
40.0	1425	1048	992.7	966.1	813.6	1060	1278	1375	35- 40	412.4	2355
45.0	1149	876.6	763.9	772.8	580.5	857.6	1044	1135	40- 45	373.9	2729
50.0	875.7	710.7	535.0	576.5	433.1	654.7	808.7	940.7	45- 50	323.8	3053
55.0	634.7	492.7	452.7	379.6	348.5	452.6	622.1	748.1	50- 55	268.1	3321
60.0	460.6	283.6	370.3	221.8	293.3	284.9	435.6	538.7	55- 60	212.6	3534
65.0	374.5	205.2	290.3	182.9	242.8	206.7	367.7	357.1	60- 65	163.6	3697
70.0	336.2	161.6	210.4	154.3	184.5	174.0	299.7	234.4	65- 70	129.1	3826
75.0	278.2	145.5	154.0	131.5	128.6	166.5	235.1	197.3	70- 75	103.0	3930
80.0	198.0	92.06	97.70	86.18	62.40	126.7	170.5	164.4	75- 80	80.31	4010
85.0	137.8	36.39	48.95	43.69	5.200	80.52	115.4	119.5	80- 85	54.93	4065
90.0	79.59	0	0.200	0.200	4.400	30.10	60.39	57.59	85- 90	27.20	4092
95.0	0	0.494	0.600	0.286	3.999	8.882	30.19	17.01	90- 95	8.275	4100
100.0	0	1.060	1.000	0.912	3.200	0.195	0	0.080	95-100	2.045	4102
105.0	0.500	1.766	1.850	1.797	3.200	0.439	0.400	0.215	100-105	0.613	4103
110.0	1.300	2.397	2.700	2.813	2.400	0.862	0.800	0.407	105-110	0.863	4104
115.0	2.900	3.140	3.550	3.676	2.400	1.170	1.200	0.702	110-115	1.088	4105
120.0	4.500	3.792	4.400	4.516	2.400	1.461	1.600	0.877	115-120	1.311	4106
125.0	5.400	4.828	5.250	5.570	3.200	1.735	2.000	1.251	120-125	1.500	4108
130.0	6.200	5.286	6.099	6.421	3.200	2.392	2.400	1.595	125-130	1.677	4109
135.0	7.900	6.268	6.949	7.310	3.200	2.684	2.800	2.236	130-135	1.818	4111
140.0	8.800	7.311	7.799	8.080	3.999	2.959	3.200	2.942	135-140	1.914	4113
145.0	10.40	7.975	8.650	8.787	3.999	3.258	3.600	3.219	140-145	1.942	4115
150.0	10.50	9.090	9.499	9.805	4.799	4.045	4.000	4.045	145-150	1.915	4117
155.0	11.39	10.02	10.34	10.68	4.799	4.322	4.400	4.322	150-155	1.815	4119
160.0	12.20	10.83	11.19	11.39	5.599	5.245	4.800	5.242	155-160	1.642	4120
165.0	12.99	11.49	12.04	12.29	6.400	5.541	5.200	5.541	160-165	1.395	4122
170.0	13.10	12.72	12.89	12.66	6.400	5.831	5.599	5.831	165-170	1.078	4123
175.0	14.59	13.33	13.74	13.59	6.400	6.116	6.000	6.116	170-175	0.686	4124
180.0	14.59	14.59	14.59	14.59	6.400	6.400	6.400	6.400	175-180	0.241	4124
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

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

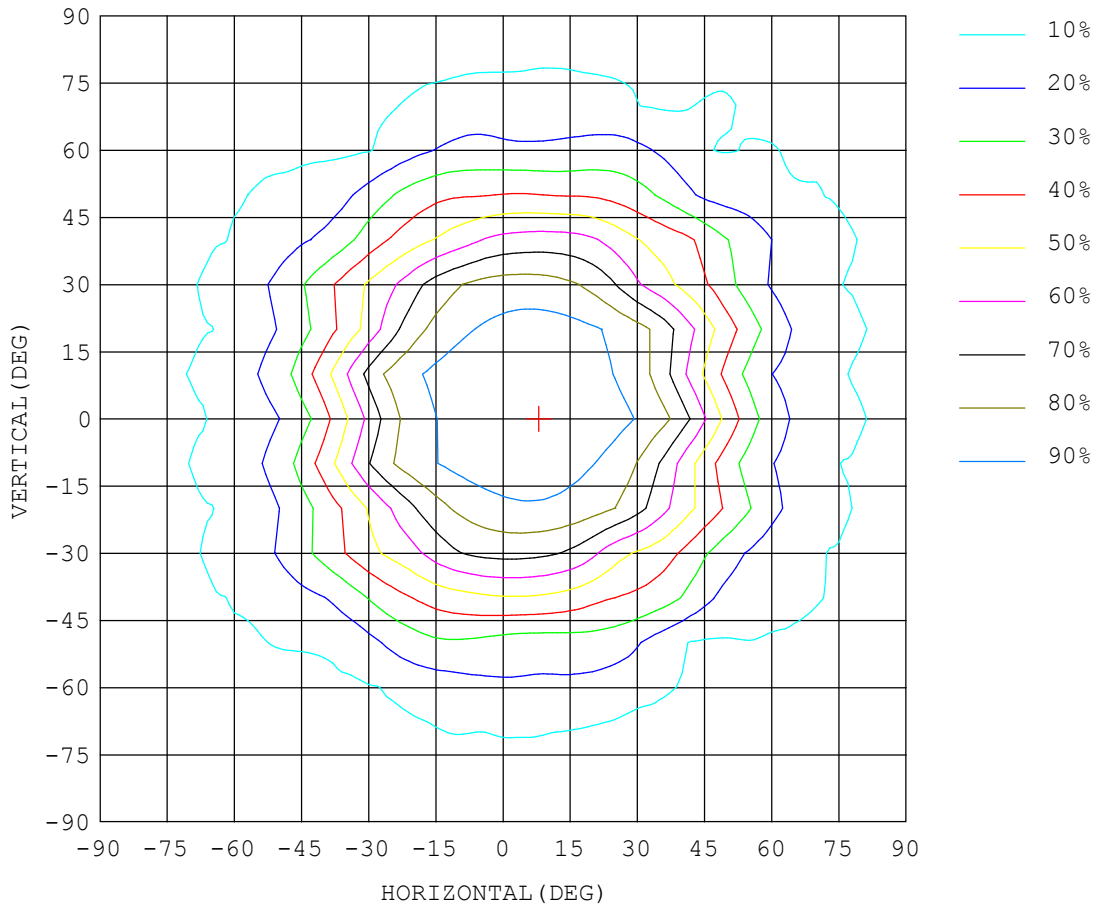
Test Set: 10.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:10.000 m
 Remarks:

ISOCANDELA DIAGRAM

Report number:

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

UNIT: cd



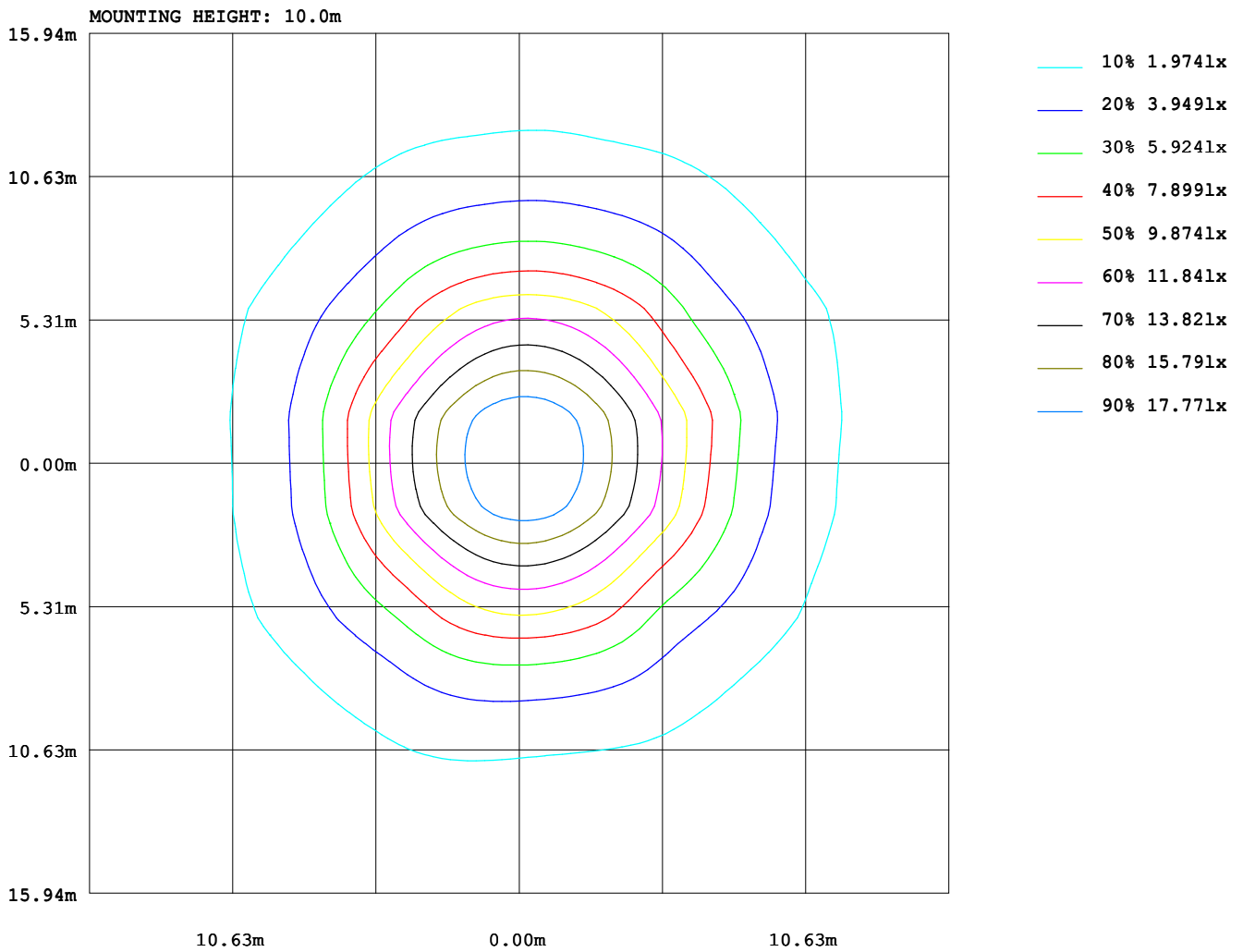
Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2019-10-18

Test Set: 10.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:10.000 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: 10.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:10.000 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		0.00	0.01	0.20	0.63	0.99	1.64	2.45	3.26	3.12	2.83	3.60	3.18	2.69	1.85	1.32	0.95	0.52	0.11	29.4	0.00						
80		0.00	0.17	1.11	2.12	2.82	4.01	3.94	5.43	6.32	7.02	6.43	5.70	3.99	3.75	3.18	1.42	0.88	0.21	58.5	22.8						
70		0.03	0.70	1.85	2.41	4.20	4.98	6.34	9.20	11.3	10.8	11.0	8.26	5.40	5.32	3.30	2.04	1.06	0.18	88.5	71.6						
60		0.00	0.39	1.77	3.01	3.62	4.39	8.54	14.0	15.8	15.0	14.9	15.9	11.7	5.22	3.98	2.58	1.48	0.35	123	105						
50		0.08	1.10	2.44	4.33	6.66	11.8	20.8	27.2	29.4	30.5	28.5	24.1	17.0	9.79	6.25	3.28	1.46	0.24	225	221						
40		0.01	0.58	2.42	4.83	9.41	16.3	25.7	33.8	42.4	46.3	44.8	36.5	27.8	19.9	10.6	4.82	2.22	0.48	329	327						
30		0.13	1.39	3.56	7.25	15.1	26.3	37.6	50.6	57.5	58.0	53.3	42.9	29.5	18.7	9.22	4.35	1.75	0.30	418	416						
		0.01	0.74	2.55	5.88	11.4	22.3	38.5	51.6	57.9	60.5	58.8	53.8	43.6	27.0	14.1	5.82	2.67	0.53	458	456						
		0.18	1.48	3.84	7.75	17.1	33.9	50.2	57.5	61.8	62.1	57.9	50.2	37.6	20.3	8.55	4.35	1.73	0.30	477	475						
		0.01	0.74	2.61	5.18	9.94	22.3	39.8	52.3	58.7	61.2	59.2	53.0	44.0	29.2	13.9	5.51	2.55	0.52	461	459						
		0.19	1.40	3.67	7.29	16.3	30.5	44.8	53.0	57.6	57.9	53.7	45.7	31.5	16.4	7.99	4.29	1.46	0.29	434	432						
-30		0.01	0.78	2.36	5.28	9.95	17.5	28.4	41.1	49.0	51.7	49.5	42.6	30.9	20.5	11.5	4.89	2.17	0.45	369	366						
-40		0.20	1.29	3.18	5.97	11.9	19.9	26.8	34.4	40.0	39.7	34.6	23.3	17.5	10.3	4.85	2.90	1.21	0.22	279	274						
-50		0.02	0.77	2.10	3.41	5.26	8.43	15.3	19.8	21.8	22.6	20.5	18.3	14.8	8.16	4.32	2.86	1.42	0.34	171	162						
-60		0.13	0.95	1.97	2.84	3.29	4.09	8.26	11.9	10.6	8.11	9.02	8.94	3.47	1.44	2.43	1.84	1.01	0.18	80.6	57.2						
-70		0.01	0.44	1.44	2.17	2.30	3.00	3.45	4.66	7.29	8.96	8.20	6.02	4.86	3.55	2.78	1.41	0.94	0.24	61.7	32.4						
-80		0.09	0.64	1.11	1.51	2.61	3.14	2.12	3.99	4.10	4.20	3.29	2.24	1.32	2.85	1.00	0.95	0.33	0.02	35.5	0.81						
-90		0.01	0.09	0.45	0.71	0.74	0.93	1.80	1.38	1.61	1.14	1.30	1.45	1.50	0.41	0.34	0.19	0.06	0.00	14.1	0.00						
		-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)										20	30	40	50	60	70	80	90
Φ t		1.09	13.6	38.7	72.6	134	236	365	476	537	549	519	443	330	205	110	54.5	24.9	4.95	4124							
Φ a		0.00	1.45	18.9	55.1	115	214	350	461	524	539	508	431	315	191	96.8	43.2	13.8	0.75		3865						

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

Test Set: 10.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:10.000 m
 Remarks:

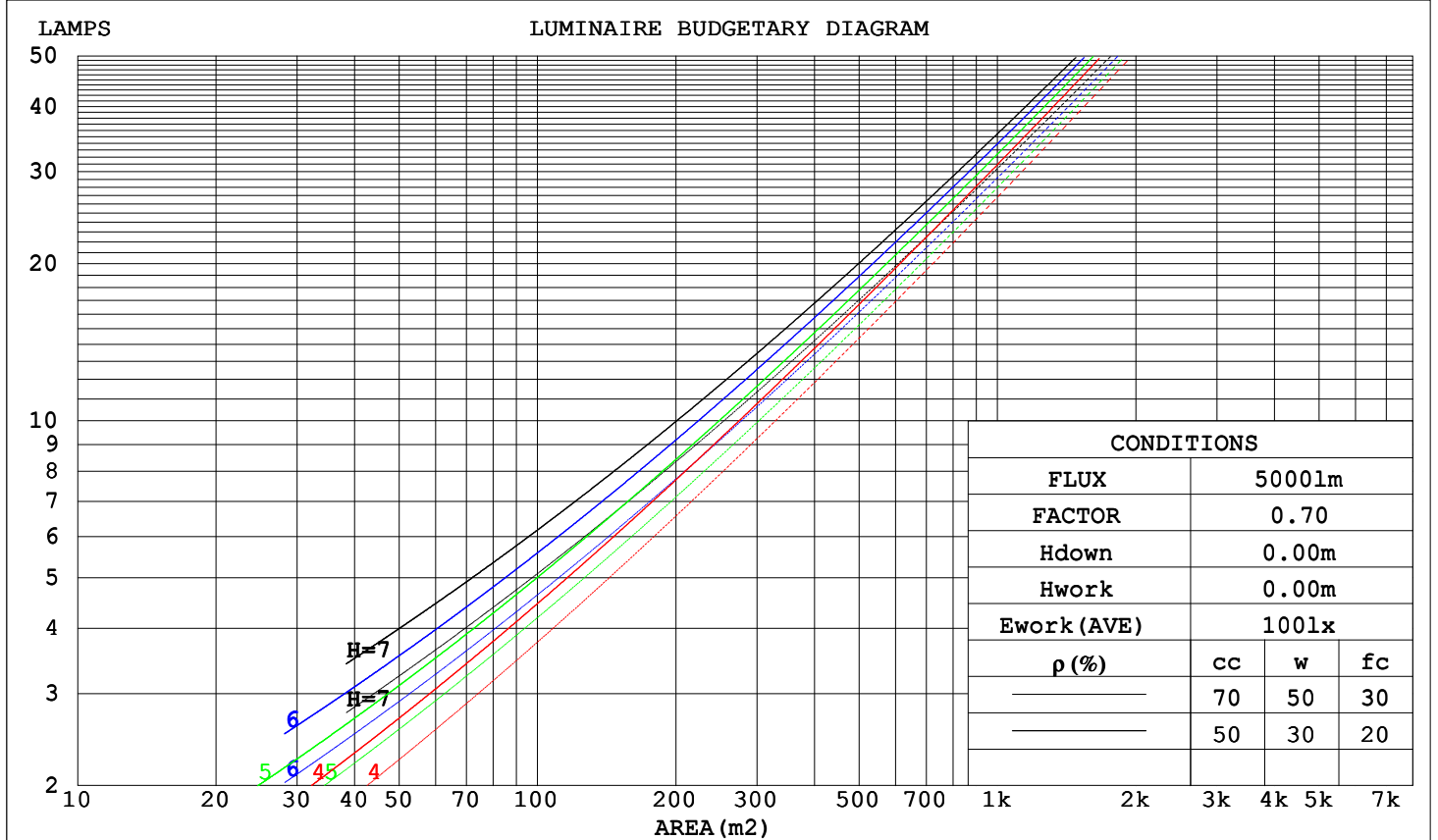
HONGPU GONIOPHOTOMETERS SYSTEM TEST REPORT

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	1.12	1.12	1.12	1.07	1.07	1.07	1.02	1.02	1.02	1.00
1.0	1.06	1.03	.99	1.04	1.01	.97	.90	.97	.94	.96	.93	.91	.92	.90	.88	.86
2.0	.95	.88	.83	.93	.87	.82	.89	.84	.80	.86	.82	.78	.83	.79	.77	.74
3.0	.85	.77	.71	.83	.76	.71	.80	.74	.69	.77	.72	.68	.75	.70	.67	.65
4.0	.76	.68	.62	.75	.67	.62	.72	.66	.61	.70	.64	.60	.68	.63	.59	.57
5.0	.69	.61	.55	.68	.60	.54	.66	.59	.54	.64	.58	.53	.62	.57	.52	.50
6.0	.63	.55	.49	.62	.54	.48	.60	.53	.48	.58	.52	.47	.57	.51	.47	.45
7.0	.57	.49	.44	.57	.49	.43	.55	.48	.43	.54	.47	.43	.52	.47	.42	.41
8.0	.53	.45	.39	.52	.45	.39	.51	.44	.39	.50	.43	.39	.48	.43	.38	.37
9.0	.49	.41	.36	.48	.41	.36	.47	.40	.36	.46	.40	.35	.45	.39	.35	.33
10.0	.45	.38	.33	.45	.38	.33	.44	.37	.33	.43	.37	.32	.42	.36	.32	.31



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

Test Set: 10.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:10.000 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	.278	.158	.050	.270	.154	.049	.257	.147	.047	.244	.141	.045	.233	.135	.043	
2.0	.260	.143	.044	.254	.140	.043	.242	.134	.042	.231	.129	.041	.221	.125	.039	
3.0	.242	.129	.039	.236	.127	.038	.226	.122	.037	.216	.119	.036	.207	.115	.036	
4.0	.225	.117	.034	.220	.115	.034	.211	.112	.033	.202	.109	.033	.194	.106	.032	
5.0	.210	.107	.031	.206	.106	.031	.197	.103	.030	.190	.100	.030	.183	.098	.029	
6.0	.196	.098	.028	.192	.097	.028	.185	.095	.028	.178	.093	.027	.172	.090	.027	
7.0	.184	.091	.026	.181	.090	.026	.174	.088	.025	.168	.086	.025	.162	.084	.025	
8.0	.173	.085	.024	.170	.084	.024	.164	.082	.023	.159	.080	.023	.153	.079	.023	
9.0	.163	.079	.022	.160	.078	.022	.155	.077	.022	.150	.075	.022	.145	.074	.021	
10.0	.154	.074	.021	.152	.073	.020	.147	.072	.020	.142	.071	.020	.138	.069	.020	

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	.198	.198	.198	.169	.169	.169	.116	.116	.116	.066	.066	.066	.021	.021	.021	
1.0	.185	.164	.144	.159	.141	.124	.109	.097	.086	.062	.056	.050	.020	.018	.016	
2.0	.175	.139	.109	.150	.120	.094	.103	.083	.066	.059	.048	.039	.019	.016	.013	
3.0	.166	.121	.085	.142	.105	.074	.098	.073	.052	.056	.042	.031	.018	.014	.010	
4.0	.158	.107	.069	.135	.093	.060	.093	.065	.042	.054	.038	.025	.017	.012	.008	
5.0	.150	.097	.057	.129	.084	.050	.089	.058	.035	.051	.034	.021	.017	.011	.007	
6.0	.143	.088	.048	.123	.076	.042	.085	.053	.030	.049	.031	.018	.016	.010	.006	
7.0	.136	.081	.042	.117	.070	.037	.081	.049	.026	.047	.029	.015	.015	.009	.005	
8.0	.130	.075	.037	.112	.065	.032	.078	.046	.023	.045	.027	.014	.015	.009	.005	
9.0	.125	.070	.033	.107	.061	.029	.074	.043	.020	.043	.025	.012	.014	.008	.004	
10.0	.119	.066	.030	.103	.057	.026	.071	.040	.019	.042	.024	.011	.013	.008	.004	

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

Test Set: 10.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:10.000 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	16.0	17.3	16.2	17.5	17.7	14.7	16.0	14.9	16.2	16.4
	3H	17.1	18.4	17.4	18.6	18.8	15.7	16.9	16.0	17.2	17.4
	4H	17.8	19.0	18.1	19.2	19.5	16.1	17.3	16.5	17.6	17.8
	6H	18.4	19.6	18.8	19.8	20.1	16.5	17.6	16.8	17.9	18.2
	8H	18.8	19.9	19.2	20.2	20.5	16.6	17.7	17.0	18.0	18.3
	12H	19.2	20.2	19.5	20.5	20.8	16.7	17.8	17.1	18.1	18.4
4H	2H	16.0	17.2	16.3	17.4	17.7	14.9	16.1	15.2	16.3	16.6
	3H	17.3	18.3	17.6	18.6	18.9	16.1	17.1	16.4	17.4	17.7
	4H	18.0	19.0	18.4	19.3	19.7	16.7	17.6	17.0	17.9	18.3
	6H	18.9	19.7	19.3	20.1	20.5	17.2	18.0	17.6	18.4	18.8
	8H	19.4	20.2	19.8	20.5	20.9	17.4	18.2	17.8	18.6	18.9
	12H	19.9	20.6	20.3	21.0	21.4	17.6	18.3	18.0	18.7	19.1
8H	4H	18.1	18.9	18.5	19.3	19.7	16.8	17.6	17.2	18.0	18.4
	6H	19.1	19.7	19.5	20.1	20.6	17.5	18.1	17.9	18.5	19.0
	8H	19.6	20.2	20.1	20.6	21.1	17.8	18.4	18.3	18.8	19.3
	12H	20.2	20.7	20.7	21.2	21.7	18.1	18.5	18.5	19.0	19.5
12H	4H	18.1	18.8	18.5	19.2	19.6	16.8	17.5	17.2	17.9	18.3
	6H	19.1	19.6	19.5	20.1	20.6	17.5	18.1	18.0	18.5	19.0
	8H	19.7	20.1	20.1	20.6	21.1	17.9	18.4	18.4	18.8	19.3

Variations with the observer position at spacings:

S = 1.0H	+ 0.3 / - 0.3	+ 0.4 / - 0.5
1.5H	+ 0.5 / - 0.5	+ 0.3 / - 0.6
2.0H	+ 1.2 / - 1.1	+ 0.5 / - 0.4

CIE Pub.117 Corrected 4088 lm Total Lamp Luminous Flux. (8log(F/F0) = 4.9)

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

Test Set: 10.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:10.000 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	65	55	49	65	55	49	64	54	49	43
0.80	75	65	59	74	65	58	73	64	58	52
1.00	83	73	67	82	73	67	80	74	66	60
1.25	89	80	74	88	80	74	85	78	73	66
1.50	94	85	79	92	84	79	89	83	78	71
2.00	100	92	87	98	91	86	94	89	84	77
2.50	103	96	91	101	95	90	97	92	88	80
3.00	106	100	95	103	98	94	99	95	91	83
4.00	109	104	100	107	102	98	102	99	96	87
5.00	111	107	103	108	105	101	104	101	98	89
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

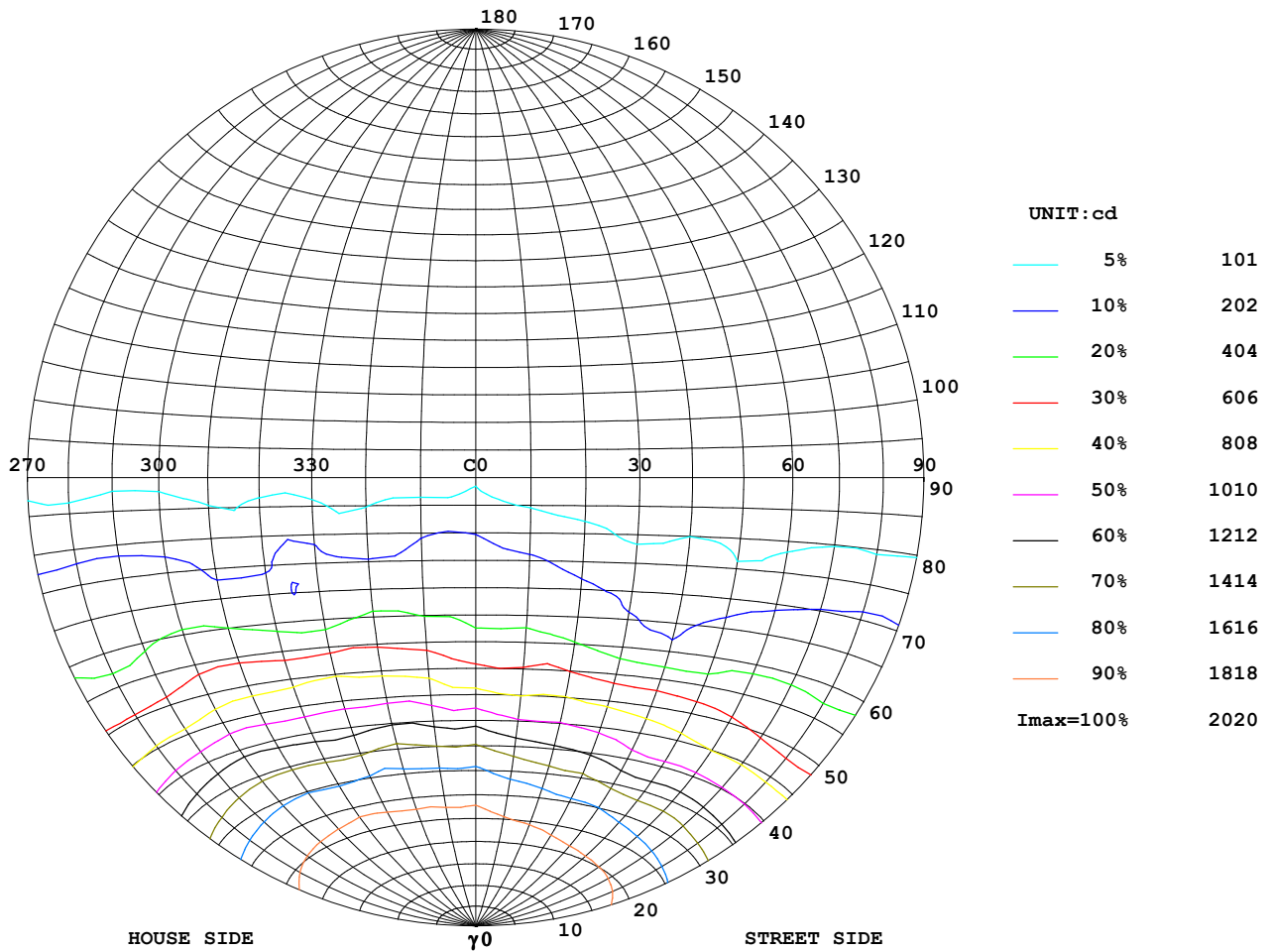
Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2019-10-18

Test Set: 10.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:10.000 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

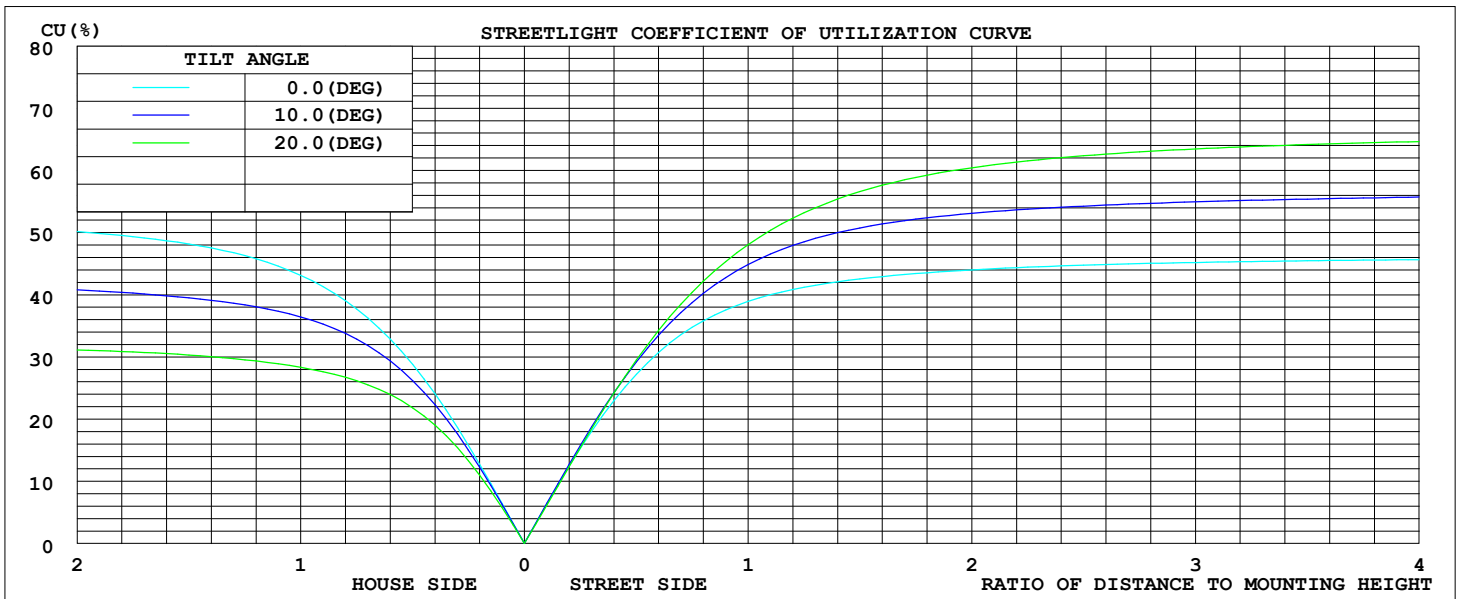
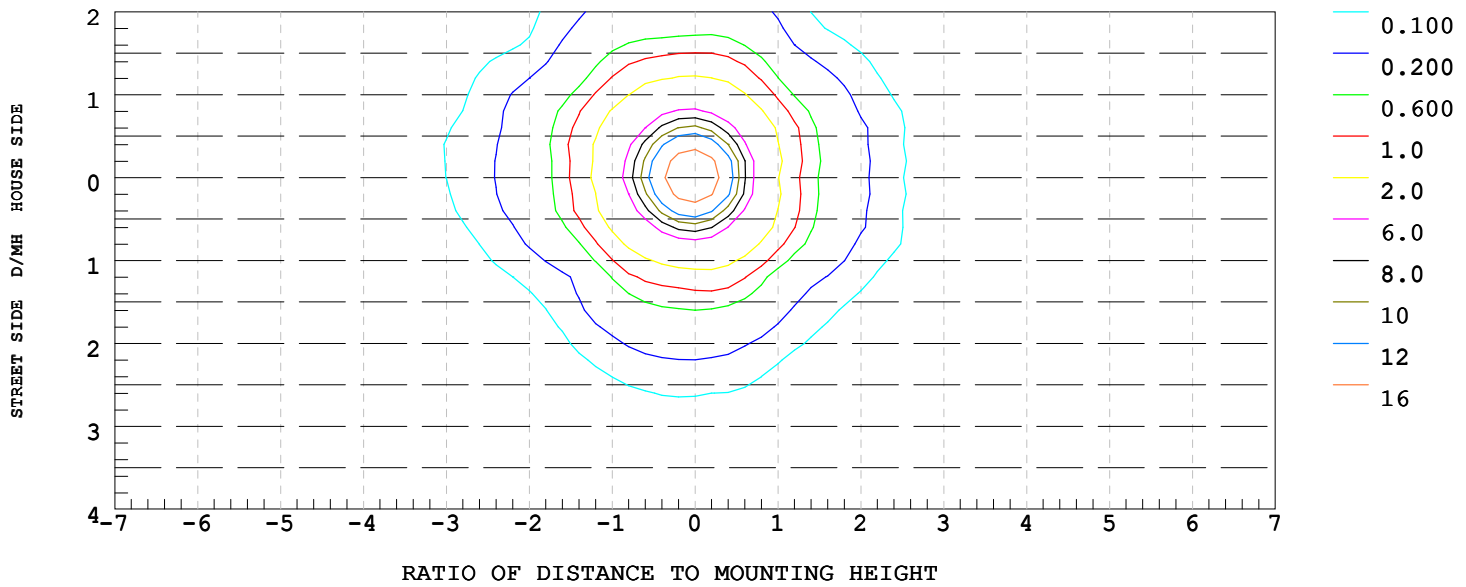
Test Set: 10.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:10.000 m
 Remarks:

ISOLUX DIAGRAM

Report number:

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

ILLUMINANCE AT MH=10 m, Enadir = 20.03 lx



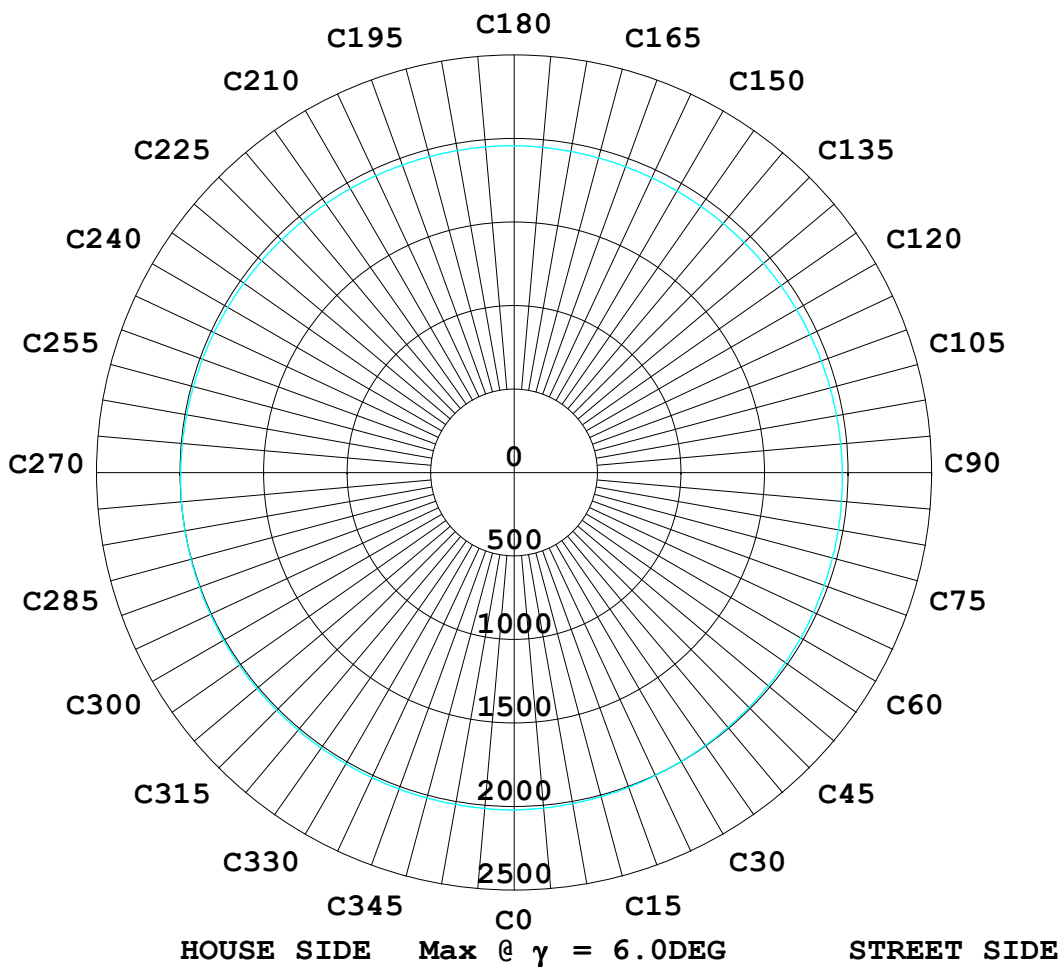
Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2019-10-18

Test Set: 10.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:10.000 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: 10.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:10.000 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	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003
5.0	2019	2016	2013	2010	2007	2004	2001	1998	1995	1993	1990	1988	1985	1983	1981
10.0	2013	2006	2000	1994	1988	1983	1979	1975	1971	1968	1965	1962	1960	1956	1953
15.0	1984	1973	1963	1955	1947	1941	1936	1932	1929	1922	1913	1905	1898	1891	1885
20.0	1934	1918	1905	1894	1886	1879	1872	1858	1848	1839	1831	1825	1819	1814	1808
25.0	1865	1844	1827	1813	1804	1790	1771	1758	1749	1742	1739	1720	1700	1683	1669
30.0	1777	1745	1720	1702	1680	1654	1639	1631	1619	1580	1557	1538	1527	1514	1505
35.0	1651	1593	1551	1525	1485	1461	1452	1409	1361	1327	1321	1329	1316	1298	1279
40.0	1425	1355	1304	1273	1243	1221	1191	1145	1093	1048	1054	1057	1048	1035	1022
45.0	1149	1077	1023	1015	1016	989	967	930	900	877	853	828	805	797	788
50.0	876	820	802	818	813	780	759	737	722	711	686	662	638	612	580
55.0	635	606	616	652	600	562	531	514	506	493	491	493	486	476	460
60.0	461	451	463	457	415	374	330	307	280	284	331	363	367	372	374
65.0	375	375	362	323	297	260	221	180	182	205	231	255	260	276	289
70.0	336	316	290	252	231	199	186	177	168	162	158	170	186	196	206
75.0	278	233	219	193	168	140	147	146	158	146	106	108	127	139	148
80.0	198	173	156	147	128	104	83.2	85.1	99.9	92.0	81.0	87.3	87.8	94.1	98.5
85.0	138	110	91.0	69.9	55.1	48.3	44.2	36.8	37.0	36.3	42.8	49.0	45.0	47.3	49.2
90.0	79.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.10	0.10	0.20
95.0	0.00	0.00	0.33	0.50	0.54	0.55	0.50	0.52	0.49	0.49	0.53	0.54	0.56	0.60	0.63
100.0	0.00	0.00	0.50	0.73	0.85	0.98	0.97	1.02	1.07	1.06	1.09	1.10	1.08	1.13	1.08
105.0	0.50	0.50	0.95	0.89	1.29	1.37	1.57	1.60	1.64	1.76	1.72	1.79	1.77	1.84	1.82
110.0	1.30	1.16	1.58	1.75	1.60	2.03	2.16	2.16	2.26	2.39	2.47	2.43	2.56	2.54	2.56
115.0	2.90	2.58	2.76	2.49	2.68	2.78	2.91	2.94	3.04	3.14	3.22	3.19	3.27	3.23	3.29
120.0	4.50	4.07	3.66	3.74	3.56	3.66	3.55	3.80	3.79	3.79	3.87	3.92	4.01	4.04	4.18
125.0	5.40	4.97	4.56	4.59	4.37	4.54	4.61	4.76	4.54	4.82	4.54	4.86	4.76	4.87	5.00
130.0	6.20	5.81	5.49	5.80	5.34	5.51	5.44	5.36	5.50	5.28	5.41	5.53	5.43	5.59	5.76
135.0	7.90	7.45	7.01	7.19	6.62	6.50	6.27	6.62	6.09	6.26	6.43	6.28	6.47	6.52	6.51
140.0	8.80	8.38	7.97	7.57	7.73	7.67	7.19	6.99	7.09	7.31	7.14	7.08	7.15	7.41	7.67
145.0	10.4	9.87	9.18	8.57	8.21	8.31	8.18	8.44	8.14	7.97	7.92	8.02	8.31	8.14	8.21
150.0	10.5	10.1	9.81	9.56	9.83	9.51	9.24	9.01	8.75	9.09	8.85	9.20	9.01	9.38	8.82
155.0	11.3	11.0	10.7	10.5	10.2	9.95	10.0	10.1	9.86	10.0	10.0	9.86	10.2	9.66	9.55
160.0	12.2	11.9	11.6	11.4	11.2	10.9	11.2	11.2	11.0	10.8	11.3	10.7	10.4	10.3	10.8
165.0	12.9	12.7	12.6	12.4	12.2	12.3	12.5	12.4	11.8	11.4	11.3	11.2	11.5	11.7	12.1
170.0	13.1	12.9	12.8	12.7	12.5	12.4	12.3	12.2	12.3	12.7	12.6	12.7	13.1	12.5	12.3
175.0	14.5	14.5	14.3	14.2	14.1	13.9	13.7	13.5	13.3	13.3	13.2	13.3	13.5	13.7	13.6
180.0	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5

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

Test Set: 10.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:10.000 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	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003
5.0	1978	1976	1974	1972	1969	1968	1966	1965	1963	1962	1960	1959	1958	1958	1958
10.0	1950	1947	1944	1940	1936	1933	1929	1925	1920	1917	1913	1910	1906	1903	1901
15.0	1878	1872	1866	1860	1854	1848	1843	1838	1835	1833	1832	1833	1836	1839	1835
20.0	1802	1795	1788	1779	1770	1760	1750	1740	1730	1721	1716	1714	1713	1716	1726
25.0	1656	1645	1636	1627	1619	1610	1602	1592	1582	1576	1569	1567	1559	1555	1562
30.0	1496	1489	1482	1475	1468	1458	1444	1425	1402	1380	1365	1353	1354	1349	1350
35.0	1262	1250	1241	1234	1230	1226	1219	1209	1196	1170	1145	1144	1143	1134	1124
40.0	1011	1003	997	993	990	989	988	992	988	973	964	963	966	955	931
45.0	774	762	758	764	776	787	795	801	799	796	792	783	773	768	763
50.0	547	524	519	535	566	596	614	617	607	597	587	580	577	568	567
55.0	447	438	441	453	463	469	470	463	444	413	375	367	380	386	403
60.0	373	366	367	370	359	345	333	329	322	300	261	244	222	253	291
65.0	293	292	292	290	280	275	257	243	227	209	190	182	183	191	206
70.0	210	217	217	210	203	210	194	174	148	142	156	166	154	141	153
75.0	153	154	156	154	155	157	145	129	110	104	131	156	132	110	123
80.0	99.3	92.6	94.7	97.7	107	104	99.4	93.8	94.6	84.7	87.1	99.3	86.1	83.1	97.7
85.0	49.7	46.1	47.4	48.9	53.4	51.9	49.8	47.9	50.7	45.0	42.6	48.2	43.6	53.0	56.4
90.0	0.20	0.20	0.20	0.20	0.20	0.30	0.20	0.20	0.20	0.20	0.20	0.10	0.20	0.20	0.30
95.0	0.61	0.66	0.60	0.60	0.60	0.60	0.56	0.52	0.48	0.43	0.38	0.30	0.29	0.28	0.21
100.0	1.05	1.12	1.01	1.00	1.00	0.94	0.95	0.90	0.86	0.83	0.82	0.81	0.91	0.99	1.12
105.0	1.82	1.88	1.86	1.85	1.80	1.80	1.75	1.72	1.67	1.68	1.71	1.69	1.79	1.94	2.15
110.0	2.59	2.64	2.71	2.70	2.61	2.64	2.59	2.58	2.55	2.49	2.57	2.64	2.81	3.02	3.25
115.0	3.43	3.40	3.54	3.55	3.41	3.45	3.42	3.42	3.42	3.44	3.48	3.56	3.67	3.77	4.08
120.0	4.33	4.15	4.34	4.40	4.21	4.26	4.23	4.25	4.24	4.33	4.37	4.55	4.51	4.87	5.22
125.0	5.15	4.91	5.13	5.25	5.01	5.06	5.05	4.94	4.99	5.09	4.97	5.21	5.57	5.64	6.03
130.0	5.83	5.77	5.91	6.09	5.86	5.86	5.85	5.66	6.04	6.03	6.05	6.24	6.42	6.48	6.79
135.0	6.49	6.75	6.71	6.94	6.78	6.67	6.82	6.78	6.85	6.87	6.83	7.06	7.31	7.51	7.82
140.0	7.24	7.56	7.51	7.79	7.73	7.46	7.73	7.57	7.31	7.83	7.75	7.98	8.08	8.34	8.32
145.0	7.98	8.46	8.36	8.65	8.66	8.26	8.34	8.36	8.50	8.47	8.72	8.72	8.78	9.06	8.84
150.0	9.01	9.55	9.31	9.49	9.51	9.06	9.13	9.59	9.28	9.19	9.40	9.78	9.80	10.0	10.0
155.0	10.0	10.0	10.3	10.3	10.3	9.85	9.92	10.0	10.4	10.1	10.3	9.95	10.6	10.9	10.6
160.0	11.2	10.7	11.0	11.1	11.2	11.0	10.7	10.7	10.8	11.4	11.0	11.2	11.3	10.9	11.2
165.0	11.5	11.7	11.6	12.0	12.0	12.0	11.5	11.5	11.6	11.7	11.8	12.2	12.2	12.1	12.3
170.0	12.6	12.7	12.3	12.8	12.9	12.9	12.9	12.7	12.3	12.4	12.4	12.5	12.6	12.7	12.8
175.0	13.3	13.1	13.4	13.7	13.7	13.7	13.7	13.8	13.8	13.8	13.9	13.7	13.5	13.4	13.3
180.0	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5

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

Test Set: 10.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:10.000 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	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003
5.0	1958	1959	1960	1961	1963	1965	1968	1967	1968	1968	1969	1970	1971	1973	1975
10.0	1900	1900	1900	1901	1902	1905	1909	1910	1912	1914	1918	1922	1927	1931	1937
15.0	1831	1828	1826	1825	1827	1831	1837	1838	1842	1847	1854	1863	1872	1881	1890
20.0	1742	1740	1732	1730	1731	1735	1743	1746	1753	1762	1774	1791	1801	1795	1794
25.0	1576	1597	1606	1596	1590	1590	1596	1606	1622	1643	1667	1672	1664	1662	1666
30.0	1355	1370	1394	1389	1361	1347	1347	1366	1399	1448	1468	1455	1458	1470	1486
35.0	1108	1114	1121	1129	1096	1078	1074	1095	1132	1184	1181	1181	1187	1219	1243
40.0	902	886	876	871	856	827	814	841	884	907	917	933	961	1004	1037
45.0	731	710	687	668	654	606	581	618	677	689	708	746	785	833	844
50.0	578	557	530	503	477	452	433	465	497	518	549	594	629	625	636
55.0	423	429	405	383	368	357	349	373	386	397	428	464	462	449	442
60.0	314	314	310	308	310	302	293	314	326	324	332	337	340	328	301
65.0	224	232	245	264	242	254	243	254	248	271	256	251	251	242	225
70.0	170	173	202	203	190	192	185	197	193	206	204	189	188	174	169
75.0	143	148	157	159	157	140	129	139	154	154	161	159	154	133	142
80.0	107	111	118	117	107	89.5	62.4	72.7	84.9	107	115	125	129	113	107
85.0	57.0	66.5	70.7	71.9	49.4	30.4	5.20	5.64	22.9	52.4	66.2	75.7	79.7	85.6	75.3
90.0	0.40	0.70	3.20	6.30	8.40	7.79	4.40	0.00	0.00	0.00	2.10	7.90	14.2	22.6	28.5
95.0	0.10	0.34	0.70	1.47	3.18	1.07	3.99	1.75	0.67	0.35	0.13	0.05	0.11	3.09	6.45
100.0	1.42	1.87	2.64	4.12	6.34	10.2	3.20	2.14	1.41	0.74	0.52	0.38	0.28	0.23	0.21
105.0	2.56	3.23	4.03	5.73	7.99	10.5	3.20	2.47	1.42	1.07	0.84	0.67	0.55	0.60	0.51
110.0	3.58	4.27	5.24	6.34	8.12	10.6	2.40	1.99	1.63	1.33	1.10	0.92	0.90	0.82	0.78
115.0	4.58	5.11	6.01	7.23	8.44	9.81	2.40	2.08	1.78	1.52	1.31	1.42	1.22	1.16	1.28
120.0	5.38	6.02	6.61	7.46	8.70	10.0	2.40	2.14	1.89	1.67	1.71	1.62	1.56	1.40	1.59
125.0	6.52	6.65	7.46	7.96	8.78	9.67	3.20	2.69	2.13	2.38	1.97	1.95	1.77	1.97	1.87
130.0	7.28	7.32	8.37	8.47	9.18	9.92	3.20	2.96	2.73	2.51	2.31	2.64	2.46	2.28	2.12
135.0	7.90	8.39	8.95	8.91	9.60	10.6	3.20	3.16	3.41	2.67	3.05	2.85	2.67	2.50	2.83
140.0	9.08	9.18	9.44	9.88	10.4	11.0	3.99	3.79	3.58	3.38	3.19	3.02	2.96	3.25	3.09
145.0	9.70	9.92	10.2	10.9	11.4	11.9	3.99	3.82	3.65	3.73	3.99	3.81	3.64	3.48	3.34
150.0	10.5	10.6	10.3	11.2	11.7	12.1	4.79	4.62	4.45	4.29	4.12	3.97	3.83	3.70	4.17
155.0	11.1	11.4	11.7	11.7	12.4	13.0	4.79	4.66	4.52	4.38	4.68	4.81	4.68	4.55	4.43
160.0	11.9	12.2	12.4	12.5	12.4	12.5	5.59	5.47	5.34	5.22	5.10	4.98	4.87	4.77	5.22
165.0	12.4	12.6	12.8	12.7	12.6	12.7	6.40	6.29	6.18	6.08	5.98	5.88	5.78	5.70	5.61
170.0	12.9	13.1	13.5	13.8	14.0	14.3	6.40	6.32	6.25	6.19	6.12	6.05	5.99	5.93	5.88
175.0	13.3	13.4	13.5	13.5	13.6	13.7	6.40	6.36	6.33	6.29	6.26	6.23	6.19	6.17	6.14
180.0	14.5	14.5	14.5	14.5	14.5	14.5	6.40	6.40	6.40	6.40	6.40	6.40	6.40	6.40	6.40

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

Test Set: 10.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:10.000 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	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003
5.0	1977	1979	1982	1984	1987	1989	1991	1994	1996	1998	2000	2002	2004	2006	2007
10.0	1944	1950	1956	1962	1968	1974	1980	1985	1989	1993	1997	2000	2002	2004	2006
15.0	1894	1896	1898	1903	1909	1914	1921	1928	1934	1941	1948	1953	1959	1964	1968
20.0	1799	1804	1811	1823	1832	1844	1856	1867	1879	1890	1898	1906	1913	1918	1923
25.0	1680	1694	1701	1710	1723	1736	1752	1766	1781	1793	1804	1814	1824	1833	1842
30.0	1498	1507	1530	1554	1581	1610	1636	1661	1682	1697	1709	1718	1727	1732	1736
35.0	1268	1288	1319	1357	1383	1400	1423	1449	1471	1488	1504	1523	1542	1561	1579
40.0	1060	1075	1094	1119	1143	1164	1188	1224	1256	1278	1297	1319	1340	1359	1375
45.0	858	879	896	916	940	963	987	1009	1028	1044	1061	1081	1102	1127	1150
50.0	655	680	705	733	765	791	808	807	801	809	824	837	852	880	914
55.0	453	477	509	550	592	620	636	636	626	622	629	637	652	681	716
60.0	285	308	339	381	420	450	467	467	454	436	433	443	469	512	553
65.0	207	194	190	247	294	333	358	375	382	368	362	370	389	406	422
70.0	174	177	178	190	213	244	265	287	312	300	293	308	327	319	311
75.0	167	182	162	150	162	189	208	221	238	235	236	245	253	243	232
80.0	127	144	132	116	126	146	156	159	165	171	179	180	176	175	173
85.0	80.5	92.8	89.6	83.4	90.9	105	114	117	119	115	119	125	128	128	126
90.0	30.1	31.9	39.4	52.0	56.7	64.4	72.9	76.3	73.6	60.3	58.7	69.2	82.5	82.9	81.4
95.0	8.88	11.2	15.4	22.1	25.5	30.2	35.1	37.5	36.6	30.1	29.2	34.0	39.7	38.8	36.5
100.0	0.19	0.15	0.11	0.09	0.06	0.04	0.03	0.01	0.00	0.00	0.00	0.01	0.02	0.04	0.06
105.0	0.44	0.46	0.43	0.43	0.39	0.41	0.44	0.42	0.40	0.40	0.40	0.42	0.41	0.41	0.39
110.0	0.86	0.77	0.84	0.77	0.78	0.78	0.85	0.82	0.81	0.80	0.81	0.82	0.84	0.78	0.71
115.0	1.17	1.06	1.17	1.09	1.20	1.14	1.26	1.22	1.20	1.20	1.20	1.22	1.19	1.14	1.03
120.0	1.46	1.39	1.51	1.42	1.57	1.50	1.66	1.63	1.60	1.60	1.60	1.63	1.46	1.50	1.46
125.0	1.73	1.94	1.83	1.73	1.93	1.86	2.07	2.03	2.00	2.00	2.00	2.03	1.81	1.86	1.93
130.0	2.39	2.25	2.14	2.38	2.29	2.48	2.47	2.43	2.40	2.40	2.40	2.43	2.34	2.22	2.29
135.0	2.68	2.55	2.47	2.73	2.64	2.94	2.87	2.83	2.80	2.80	2.80	2.83	2.87	2.94	2.64
140.0	2.95	2.83	3.18	3.07	3.09	3.33	3.27	3.23	3.20	3.20	3.20	3.23	3.27	2.92	2.99
145.0	3.25	3.62	3.51	3.41	3.80	3.73	3.67	3.63	3.60	3.60	3.60	3.63	3.67	3.58	3.79
150.0	4.04	3.92	3.82	4.27	4.19	4.12	4.06	4.03	4.00	4.00	4.00	4.03	4.06	4.12	3.66
155.0	4.32	4.36	4.72	4.64	4.56	4.50	4.46	4.42	4.40	4.40	4.40	4.42	4.46	4.50	4.56
160.0	5.24	5.15	5.07	5.00	4.93	4.88	4.85	4.82	4.80	4.80	4.80	4.82	4.85	4.88	4.93
165.0	5.54	5.47	5.40	5.35	5.30	5.26	5.23	5.21	5.20	5.20	5.20	5.21	5.23	5.26	5.30
170.0	5.83	5.78	5.74	5.70	5.67	5.64	5.62	5.61	5.60	5.59	5.60	5.61	5.62	5.64	5.67
175.0	6.11	6.09	6.07	6.05	6.03	6.02	6.01	6.00	6.00	6.00	6.00	6.00	6.01	6.02	6.03
180.0	6.40	6.40	6.40	6.40	6.40	6.40	6.40	6.40	6.40	6.40	6.40	6.40	6.40	6.40	6.40

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

Test Set: 10.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:10.000 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)											
	300	305	310	315	320	325	330	335	340	345	350	355
0.0	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003
5.0	2008	2009	2011	2012	2013	2014	2014	2015	2016	2017	2017	2018
10.0	2006	2007	2007	2007	2007	2007	2007	2007	2008	2008	2010	2011
15.0	1973	1976	1979	1983	1985	1982	1980	1978	1977	1978	1979	1981
20.0	1924	1927	1928	1929	1931	1931	1933	1931	1929	1927	1927	1929
25.0	1852	1863	1871	1866	1865	1862	1861	1864	1864	1859	1858	1859
30.0	1740	1743	1751	1762	1782	1778	1774	1770	1771	1770	1767	1769
35.0	1593	1607	1601	1597	1609	1632	1662	1647	1638	1639	1630	1633
40.0	1382	1383	1382	1375	1370	1388	1432	1463	1434	1414	1399	1403
45.0	1156	1147	1139	1135	1128	1131	1172	1196	1203	1151	1119	1123
50.0	931	931	929	941	953	959	952	962	965	926	874	854
55.0	734	740	742	748	774	795	775	772	755	747	671	626
60.0	574	572	559	539	531	551	586	587	566	552	510	453
65.0	426	405	378	357	334	337	391	432	425	398	396	374
70.0	304	273	256	234	200	230	279	309	314	312	337	343
75.0	216	182	178	197	213	209	211	211	215	247	284	283
80.0	163	139	133	164	196	181	143	139	158	191	209	197
85.0	116	104	98.1	120	141	118	87.2	98.4	118	125	123	134
90.0	70.5	73.8	69.4	57.5	55.6	50.0	49.9	49.5	48.0	45.6	39.6	28.6
95.0	29.8	28.7	24.3	17.0	12.5	6.72	0.37	0.00	0.00	0.00	0.00	0.00
100.0	0.08	0.09	0.09	0.08	0.05	0.02	0.00	0.00	0.00	0.00	0.00	0.00
105.0	0.36	0.32	0.28	0.22	0.13	0.15	0.00	0.00	0.00	0.00	0.00	0.00
110.0	0.64	0.56	0.46	0.41	0.38	0.22	0.00	0.00	0.00	0.00	0.00	0.00
115.0	1.09	0.92	0.72	0.70	0.52	0.29	0.33	0.00	0.00	0.00	0.00	0.00
120.0	1.42	1.25	1.08	0.88	0.78	0.70	0.39	0.44	0.00	0.00	0.00	0.00
125.0	1.73	1.52	1.37	1.25	1.12	0.81	0.89	0.49	0.54	0.60	0.15	0.00
130.0	2.04	2.14	1.88	1.59	1.30	1.36	1.20	1.06	1.13	0.63	0.68	0.74
135.0	2.73	2.44	2.53	2.23	1.89	1.80	1.60	1.71	1.44	1.30	1.40	1.50
140.0	3.07	2.89	2.83	2.94	2.58	2.29	2.28	2.03	1.91	2.03	2.15	2.27
145.0	3.41	3.51	3.29	3.21	3.34	2.90	3.03	2.97	2.66	2.78	2.92	3.06
150.0	4.01	3.82	3.92	4.04	3.57	3.70	3.83	3.97	3.44	3.57	3.71	3.85
155.0	4.06	4.71	4.22	4.32	4.43	4.55	4.36	4.13	4.25	4.38	4.52	4.66
160.0	5.00	4.87	4.50	5.24	4.67	4.77	4.87	4.98	5.10	5.22	5.34	5.47
165.0	5.35	5.40	5.47	5.54	5.31	4.98	5.06	5.56	5.92	5.71	5.59	5.55
170.0	5.70	5.74	5.78	5.83	5.88	5.93	5.99	6.05	6.12	6.19	6.25	6.32
175.0	6.05	6.07	6.09	6.11	6.14	6.17	6.19	6.23	6.26	6.29	6.33	6.36
180.0	6.40	6.40	6.40	6.40	6.40	6.40	6.40	6.40	6.40	6.40	6.40	6.40

Test System:HOPOO HPG1900
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