

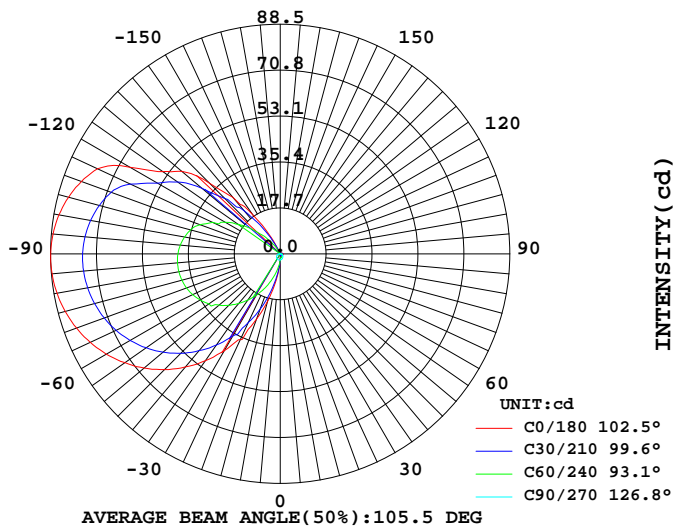
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

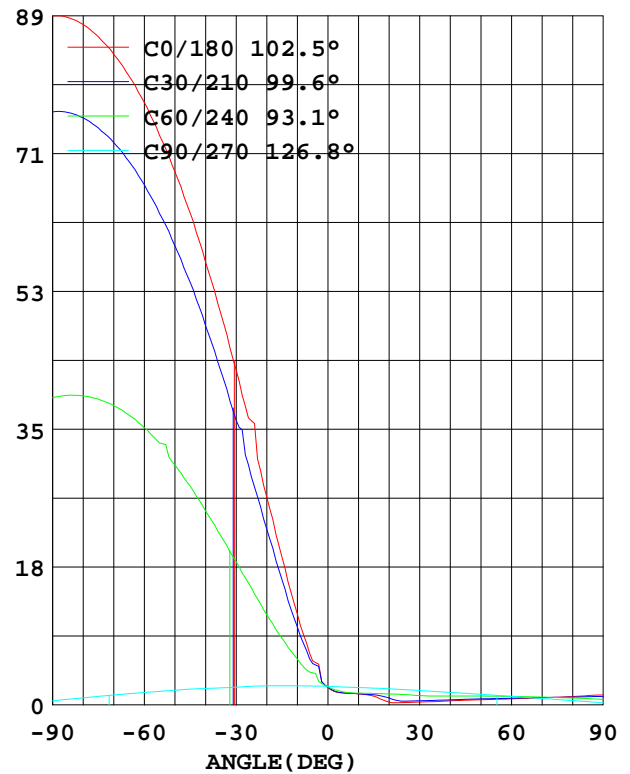
MANUFACTURER:			
Address:			
NAME:		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 0	DIMENSION:	SERIAL No.:

DATA OF LAMP		Imax(cd)	88.54	S/MH(C0/180)	7.56
MODEL		EFFICIENCY(%)	100.0	S/MH(C90/270)	1.41
NOMINAL POWER(W)	2	TOTAL FLUX(lm)	229.7	Voltage(V)	12.02
RATED VOLTAGE(V)	12	EFFICIENCY(lm/W)	105.8	Current(A)	0.220
NOMINAL FLUX(lm)	229.7	η up(%)	44.0	Power(W)	2.170
LAMPS QUANTITY	1	η down(%)	56.0	Power Factor(PF)	0.817
TEST VOLTAGE(V)	12.0	Effective Flux(lm)	23.0	EEI	0.406

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



Test System:HOP00 HP880D
Temperature:25.3DEG
Operators:
Test Date:06-30-2023

Test Set: 10.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:1.000 m
Remarks:

Color Temperature Data List

Report number:

MANUFACTURER:			
Address:			
NAME:		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 0	DIMENSION:	SERIAL No.:

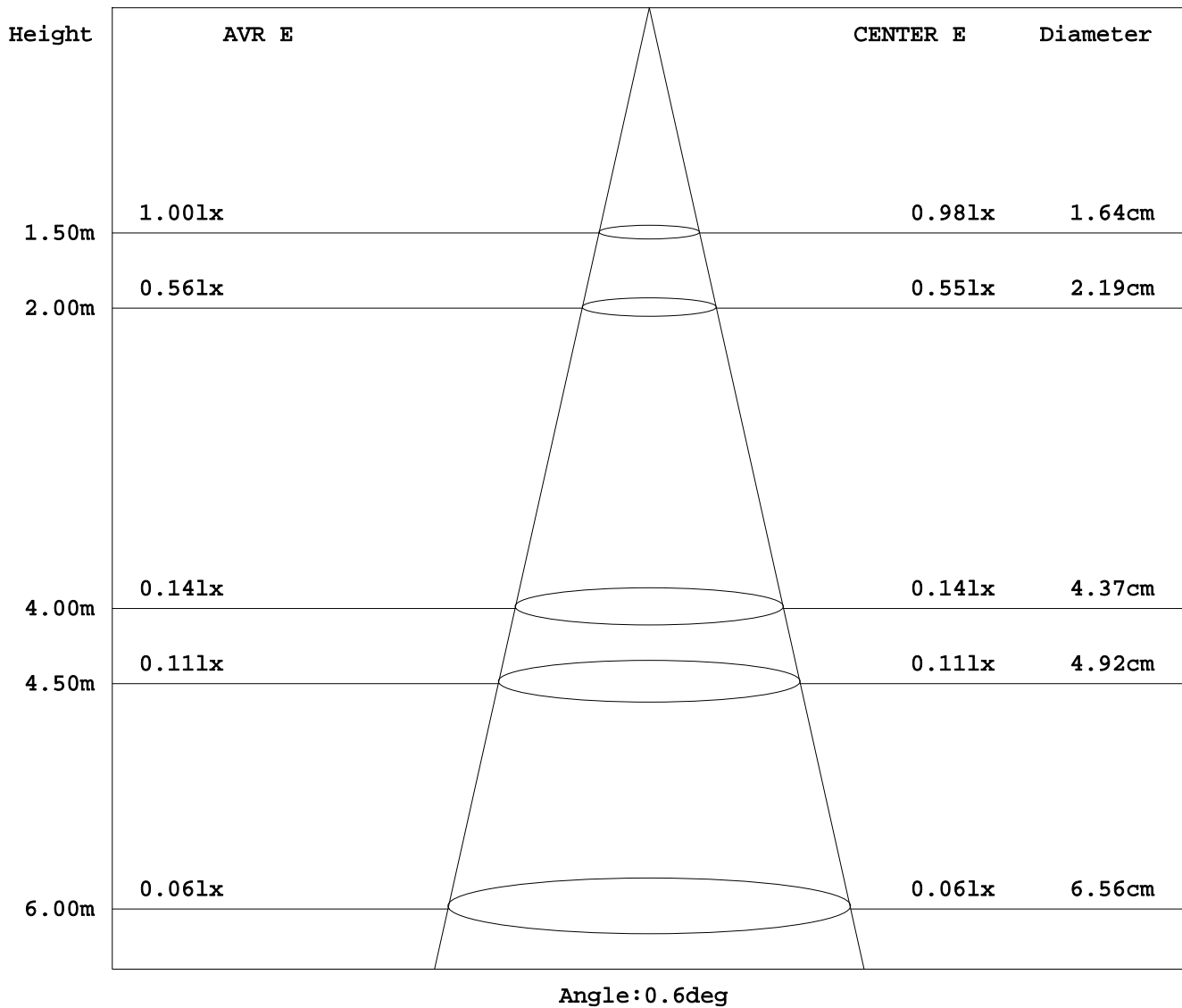
Test System:HOP00 HP880D
Temperature:25.3DEG
Operators:
Test Date:06-30-2023

Test Set: 10.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:1.000 m
Remarks:

AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER:			
Address:			
NAME:		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 0	DIMENSION:	SERIAL No.:



Test System: HOPPO HP880D
Temperature: 25.3DEG
Operators:
Test Date: 06-30-2023

Test Set: 10.0deg/s C-Gamma (TYPE C)
Humidity: 65.0%
Test Distance: 1.000 m
Remarks:

HONGPU GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME:		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 0	DIMENSION:	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	zOne	total
5.0	5.673	4.808	2.420	1.541	1.545	1.802	2.301	3.189	0- 5	0.064	0.064
10.0	11.73	8.615	2.450	1.483	1.405	1.561	2.228	6.460	5- 10	0.264	0.327
15.0	18.96	13.10	2.465	1.371	1.120	1.447	2.153	10.23	10- 15	0.637	0.964
20.0	26.73	18.16	2.453	1.238	0.364	1.343	2.063	14.54	15- 20	1.204	2.167
25.0	36.51	23.63	2.397	1.071	0.306	1.107	1.963	19.33	20- 25	1.973	4.140
30.0	43.04	29.01	2.272	1.055	0.364	0.828	1.852	23.98	25- 30	2.942	7.083
35.0	50.24	34.14	2.181	1.070	0.431	0.824	1.723	28.47	30- 35	4.066	11.15
40.0	56.87	38.97	2.112	1.088	0.527	0.859	1.601	34.25	35- 40	5.289	16.44
45.0	63.16	43.60	2.016	1.090	0.604	0.897	1.484	37.13	40- 45	6.578	23.01
50.0	68.47	47.50	1.891	1.090	0.661	0.927	1.356	40.60	45- 50	7.861	30.88
55.0	73.15	50.96	1.742	1.090	0.721	0.953	1.228	43.81	50- 55	9.115	39.99
60.0	77.39	54.06	1.596	1.079	0.787	0.968	1.096	46.47	55- 60	10.29	50.28
65.0	80.79	56.50	1.442	1.066	0.856	0.976	0.962	48.72	60- 65	11.36	61.64
70.0	83.58	58.43	1.280	1.066	0.919	0.969	0.818	50.61	65- 70	12.28	73.93
75.0	85.84	59.92	1.093	1.056	0.985	0.962	0.687	51.96	70- 75	13.03	86.96
80.0	87.40	60.84	0.906	1.053	1.068	0.949	0.545	52.91	75- 80	13.60	100.5
85.0	88.31	61.28	0.724	1.032	1.197	0.941	0.412	53.40	80- 85	13.97	114.5
90.0	88.52	61.21	0.522	0.904	1.277	0.919	0.271	53.45	85- 90	14.11	128.6
95.0	87.94	60.54	0.425	0.731	1.155	0.795	0.150	53.09	90- 95	14.00	142.6
100.0	86.66	59.26	0.373	0.711	0.889	0.663	0.150	52.18	95-100	13.66	156.3
105.0	84.48	57.28	0.332	0.685	0.862	0.644	0.146	50.86	100-105	13.12	169.4
110.0	81.60	54.33	0.298	0.647	0.833	0.622	0.147	49.00	105-110	12.37	181.8
115.0	77.70	48.37	0.278	0.604	0.792	0.600	0.148	46.50	110-115	11.33	193.1
120.0	66.84	41.90	0.263	0.550	0.749	0.569	0.145	41.02	115-120	9.864	203.0
125.0	55.36	36.93	0.252	0.490	0.696	0.531	0.140	35.44	120-125	8.068	211.0
130.0	49.56	28.03	0.237	0.428	0.632	0.483	0.139	30.62	125-130	6.455	217.5
135.0	38.48	20.96	0.224	0.356	0.557	0.434	0.132	23.59	130-135	4.887	222.4
140.0	28.62	15.00	0.204	0.283	0.476	0.371	0.121	17.92	135-140	3.395	225.8
145.0	18.40	8.373	0.172	0.213	0.387	0.317	0.112	13.08	140-145	2.157	227.9
150.0	8.766	2.810	0.135	0.143	0.286	0.250	0.091	7.028	145-150	1.161	229.1
155.0	0.292	0.078	0.088	0.083	0.193	0.183	0.078	3.167	150-155	0.426	229.5
160.0	0.160	0.017	0.033	0.042	0.105	0.123	0.035	0.338	155-160	0.069	229.6
165.0	0.075	0.008	0.025	0.024	0.038	0.070	0.028	0.096	160-165	0.010	229.6
170.0	0.055	0.014	0.020	0.011	0.007	0.043	0.018	0.063	165-170	0.004	229.6
175.0	0.047	0.014	0.016	0.011	0	0.025	0.014	0.054	170-175	0.002	229.6
180.0	0.022	0.015	0.013	0.011	0.003	0.017	0.007	0.031	175-180	0.001	229.6
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:HOPPO HP880D
Temperature:25.3DEG
Operators:
Test Date:06-30-2023

Test Set: 10.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:1.000 m
Remarks:

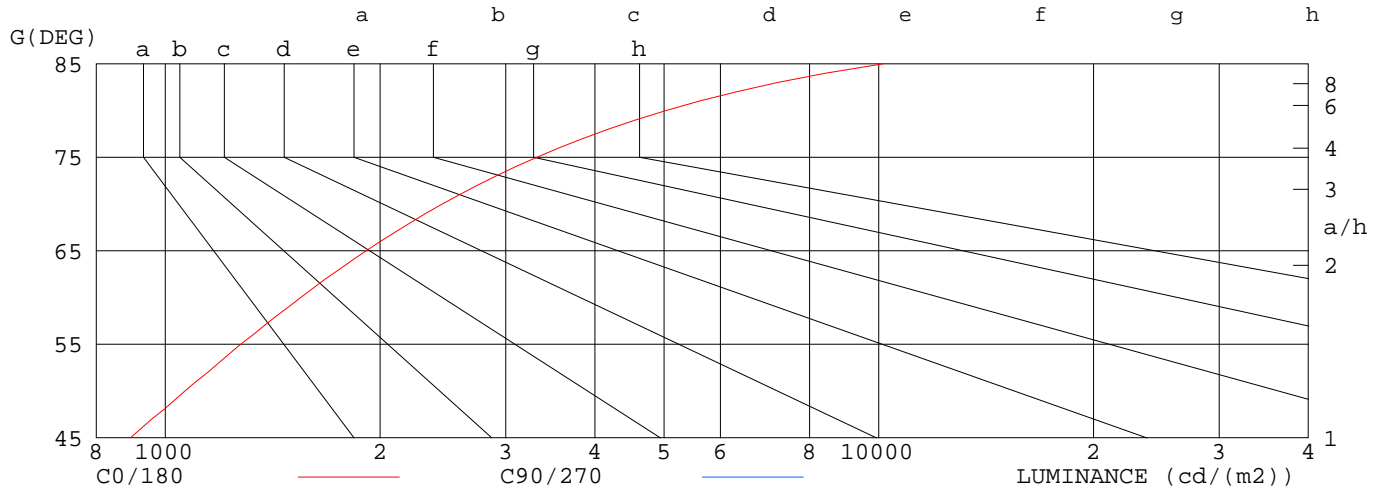
LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER:			
Address:			
NAME:		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 0	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	10133	83
80	5033	52
75	3317	42
70	2444	37
65	1912	34
60	1548	32
55	1275	30
50	1065	29
45	893	29

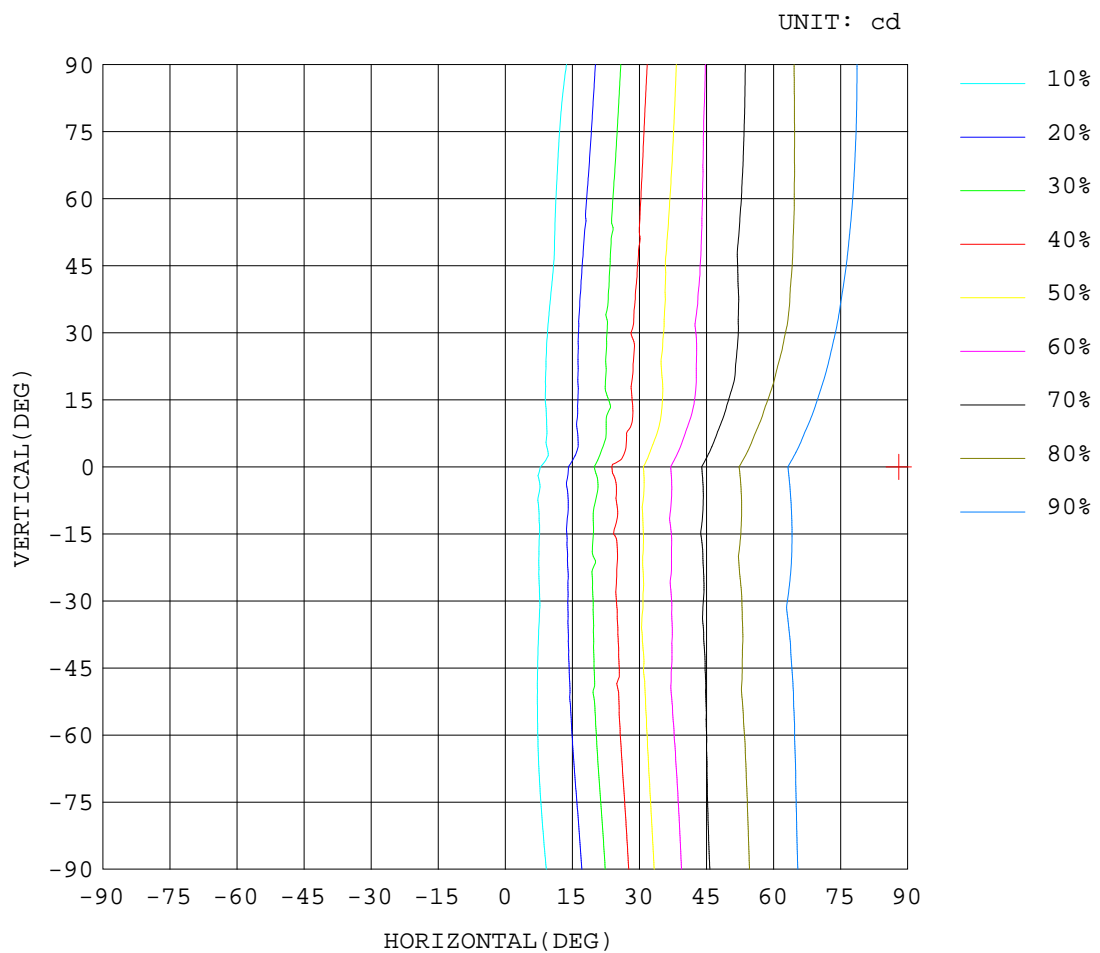
Test System:HOPPO HP880D
 Temperature:25.3DEG
 Operators:
 Test Date:06-30-2023

Test Set: 10.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:1.000 m
 Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME:		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 0	DIMENSION:	SERIAL No.:



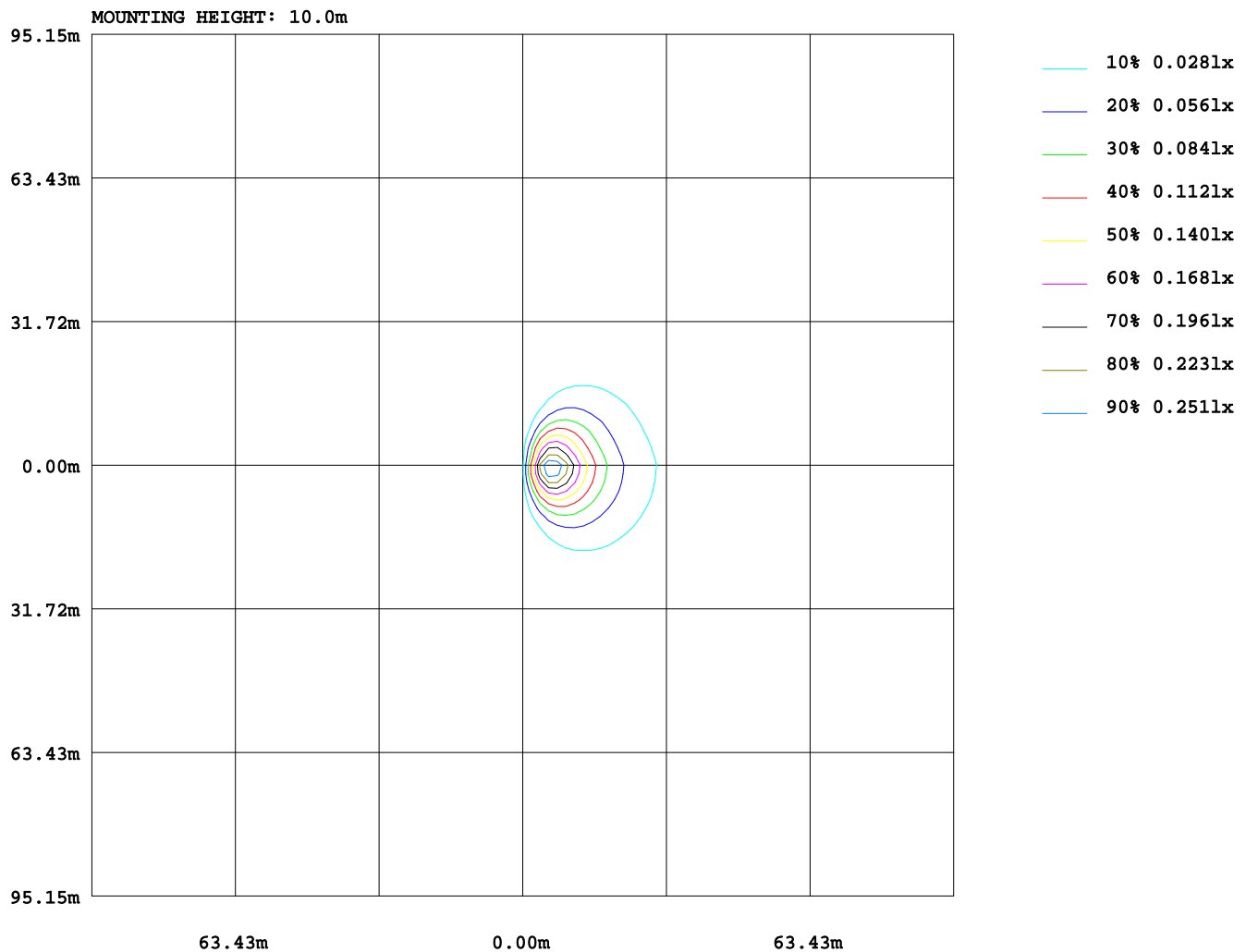
Test System:HOP00 HP880D
Temperature:25.3DEG
Operators:
Test Date:06-30-2023

Test Set: 10.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:1.000 m
Remarks:

ISOLUX DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME:		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 0	DIMENSION:	SERIAL No.:



Test System:HOP00 HP880D
Temperature:25.3DEG
Operators:
Test Date:06-30-2023

Test Set: 10.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:1.000 m
Remarks:

HONGPU GONIOPHOTOMETERS SYSTEM TEST REPORT

AREA LUMINOUS FLUX

Report number:

MANUFACTURER:																			
Address:																			
NAME:										TYPE:					WEIGHT:				
SPECIFICATION:					CCT(K): 0					DIMENSION:					SERIAL No.:				

VERTICAL (DEG)	AREA FLUX DIAGRAM																		UNIT:lm				Φ t	Φ a
	90	80	70	60	50	40	30	20	10	0	10	20	30	40	50	60	70	80	90					
	0.00	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.11	0.33	0.70	1.00	1.13	1.10	0.91	0.60	0.22	6.26	2.79				
	0.00	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.02	0.12	0.35	0.73	1.01	1.14	1.10	0.91	0.60	0.22	6.36	2.89				
	0.00	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.03	0.13	0.38	0.75	1.02	1.15	1.11	0.91	0.61	0.22	6.47	2.99				
	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.04	0.14	0.40	0.77	1.04	1.16	1.11	0.91	0.61	0.22	6.57	3.07				
	0.00	0.01	0.01	0.02	0.02	0.02	0.03	0.04	0.04	0.15	0.43	0.79	1.06	1.17	1.11	0.92	0.62	0.22	6.67	3.15				
	0.00	0.01	0.01	0.01	0.02	0.02	0.03	0.04	0.05	0.15	0.46	0.82	1.07	1.18	1.11	0.92	0.63	0.23	6.77	3.23				
	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.05	0.16	0.47	0.83	1.09	1.18	1.12	0.94	0.64	0.23	6.85	3.27				
	0.00	0.01	0.01	0.01	0.01	0.01	0.02	0.03	0.05	0.16	0.47	0.83	1.09	1.20	1.16	0.98	0.65	0.23	6.96	3.28				
	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.03	0.05	0.16	0.49	0.88	1.17	1.29	1.23	1.01	0.67	0.23	7.29	3.45				
	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.03	0.05	0.20	0.56	0.97	1.24	1.34	1.26	1.03	0.67	0.23	7.67	3.75				
	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.04	0.05	0.20	0.57	0.97	1.24	1.35	1.26	1.02	0.67	0.23	7.71	3.79				
-30	0.00	0.01	0.01	0.01	0.02	0.02	0.03	0.04	0.05	0.20	0.57	0.97	1.24	1.34	1.27	1.03	0.67	0.23	7.73	3.80				
-40	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.05	0.20	0.56	0.97	1.24	1.34	1.26	1.03	0.67	0.23	7.72	3.81				
-50	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.05	0.20	0.55	0.96	1.24	1.33	1.26	1.02	0.67	0.23	7.70	3.78				
-60	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.05	0.20	0.54	0.95	1.22	1.33	1.25	1.02	0.67	0.23	7.64	3.74				
-70	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.04	0.19	0.52	0.92	1.20	1.32	1.25	1.02	0.67	0.23	7.54	3.65				
-80	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.03	0.18	0.49	0.90	1.18	1.31	1.24	1.02	0.67	0.23	7.41	3.53				
-90	0.00	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.16	0.46	0.87	1.16	1.30	1.24	1.01	0.67	0.23	7.27	3.40				
-90 -80 -70 -60 -50 -40 -30 -20 HORIZONTAL(DEG) 20 30 40 50 60 70 80 90																								
Φ t	0.06	0.15	0.22	0.28	0.34	0.39	0.45	0.59	0.75	3.01	8.59	15.5	20.6	22.6	21.5	17.6	11.6	4.11	230					
Φ a	0.00	0.00	0.00	0.00	0.18	0.39	0.45	0.59	0.75	3.01	8.59	15.5	20.6	11.2	0.00	0.00	0.00	0.00		23				

Test System:HOP00 HP880D
 Temperature:25.3DEG
 Operators:
 Test Date:06-30-2023

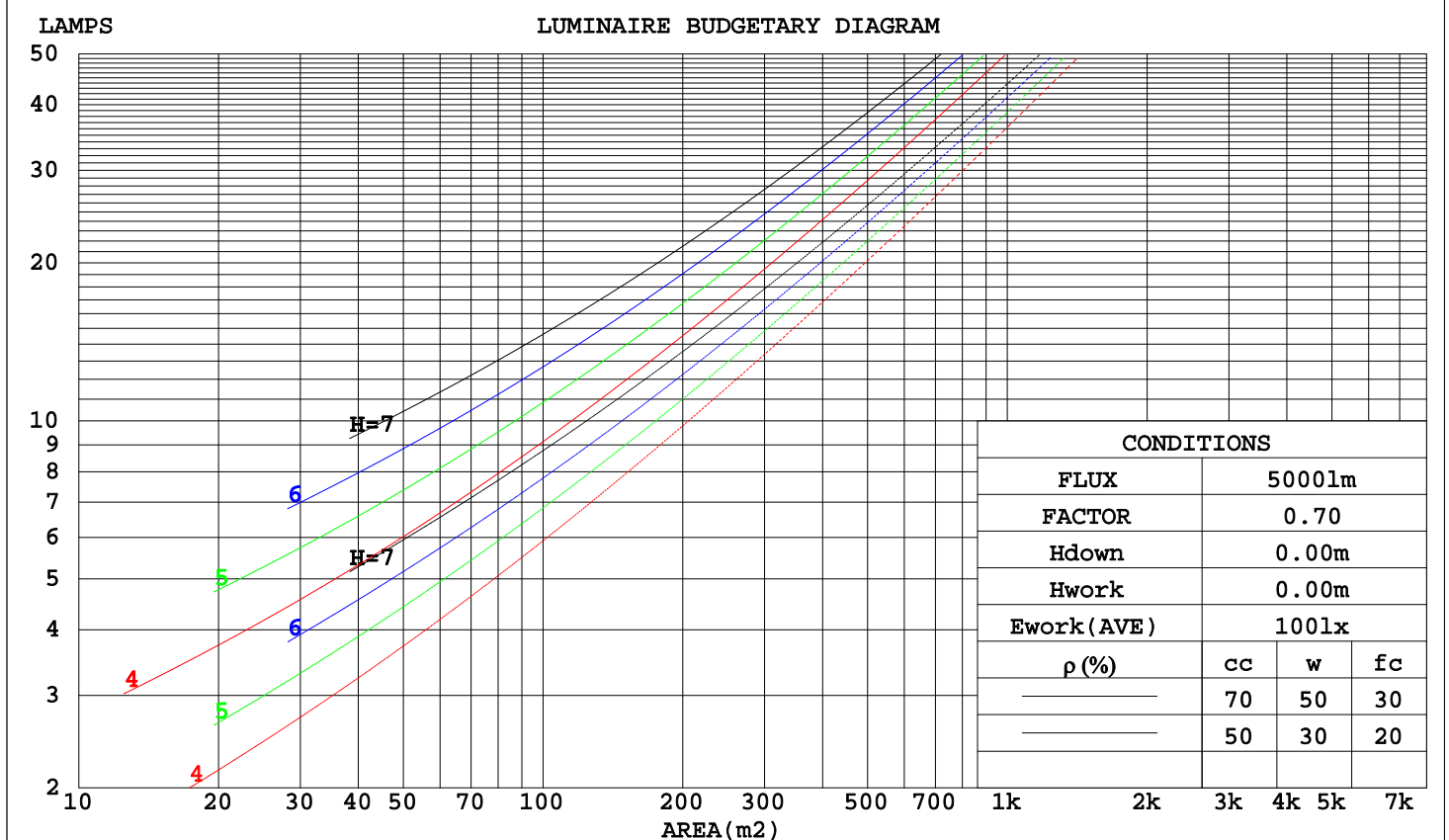
Test Set: 10.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:1.000 m
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER:															
Address:															
NAME:								TYPE:				WEIGHT:			
SPECIFICATION:				CCT(K): 0				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															



Test System:HOPPO HP880D
 Temperature:25.3DEG
 Operators:
 Test Date:06-30-2023

Test Set: 10.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:1.000 m
 Remarks:

HONGPU GONIOPHOTOMETERS SYSTEM TEST REPORT

WEC AND CCEC

Report number:

MANUFACTURER:															
Address:															
NAME:								TYPE:				WEIGHT:			
SPECIFICATION:				CCT(K): 0				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	.455	.259	.082	.434	.248	.079	.395	.227	.072	.360	.207	.067	.327	.189	.061		
2.0	.373	.204	.063	.354	.195	.060	.318	.177	.055	.285	.160	.050	.255	.144	.045		
3.0	.321	.171	.051	.304	.163	.049	.271	.147	.045	.241	.132	.041	.213	.118	.037		
4.0	.283	.147	.043	.268	.140	.041	.238	.126	.038	.210	.113	.034	.184	.100	.031		
5.0	.254	.129	.037	.239	.123	.036	.212	.110	.033	.187	.098	.029	.163	.087	.026		
6.0	.230	.115	.033	.217	.110	.032	.192	.098	.029	.168	.087	.026	.146	.077	.023		
7.0	.210	.104	.029	.198	.099	.028	.175	.088	.025	.153	.079	.023	.133	.069	.020		
8.0	.194	.095	.027	.183	.090	.025	.161	.080	.023	.141	.071	.021	.122	.062	.018		
9.0	.180	.087	.024	.169	.082	.023	.149	.074	.021	.130	.065	.019	.112	.057	.016		
10.0	.167	.080	.022	.157	.076	.021	.139	.068	.019	.121	.060	.017	.104	.053	.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	.526	.526	.526	.449	.449	.449	.307	.307	.307	.176	.176	.176	.056	.056	.056	
1.0	.528	.493	.461	.452	.423	.397	.309	.291	.274	.178	.168	.159	.057	.054	.052	
2.0	.523	.472	.428	.448	.406	.370	.307	.281	.258	.177	.163	.151	.057	.053	.049	
3.0	.516	.457	.409	.443	.394	.355	.304	.274	.249	.176	.160	.147	.056	.052	.048	
4.0	.509	.445	.397	.437	.385	.345	.300	.268	.243	.174	.157	.144	.056	.051	.047	
5.0	.501	.436	.388	.430	.377	.338	.296	.264	.239	.172	.155	.142	.055	.051	.047	
6.0	.494	.429	.382	.424	.371	.333	.293	.260	.236	.170	.153	.140	.055	.050	.046	
7.0	.486	.423	.378	.418	.366	.330	.289	.257	.234	.168	.151	.139	.054	.050	.046	
8.0	.480	.417	.375	.413	.362	.327	.286	.254	.232	.166	.150	.138	.054	.049	.046	
9.0	.473	.413	.372	.408	.358	.325	.282	.252	.231	.165	.149	.138	.053	.049	.046	
10.0	.467	.409	.370	.403	.355	.323	.279	.250	.230	.163	.148	.137	.053	.049	.045	

Test System:HOPPO HP880D
 Temperature:25.3DEG
 Operators:
 Test Date:06-30-2023

Test Set: 10.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:1.000 m
 Remarks:

HONGPU GONIOPHOTOMETERS SYSTEM TEST REPORT

UGR Table

Report number:

MANUFACTURER:										
Address:										
NAME:					TYPE:			WEIGHT:		
SPECIFICATION:			CCT(K): 0		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				
x = 2H y = 2H						Viewed endwise				
3H						7.3 8.5 8.1 9.3 10.4				
4H						8.6 9.7 9.5 10.6 11.7				
6H						9.2 10.2 10.0 11.1 12.2				
8H						9.6 10.6 10.5 11.5 12.7				
12H						9.8 10.8 10.7 11.7 12.8				
4H 2H						10.0 10.9 10.8 11.8 12.9				
3H						11.5 12.6 12.4 13.4 14.6				
4H						13.5 14.4 14.4 15.3 16.5				
6H						14.4 15.2 15.3 16.1 17.3				
8H						15.0 15.8 15.9 16.7 17.9				
12H						15.2 15.9 16.2 16.9 18.1				
4H 2H						15.4 16.1 16.3 17.0 18.2				
3H						17.4 18.2 18.4 19.1 20.3				
4H						18.8 19.4 19.8 20.4 21.6				
6H						19.4 19.9 20.3 20.9 22.2				
8H						19.8 20.2 20.7 21.2 22.5				
12H						18.4 19.0 19.3 20.0 21.2				
4H 2H						20.2 20.7 21.1 21.7 23.0				
3H						21.0 21.5 22.0 22.5 23.8				
4H										
6H										
8H										

Variations with the observer position at spacings:

S = 1.0H	+ 0.1 / - 0.1	+ 0.1 / - 0.1
1.5H	+ 0.2 / - 0.3	+ 0.1 / - 0.1
2.0H	+ 0.3 / - 0.4	+ 0.3 / - 0.3

CIE Pub.117 Corrected 229.6 lm Total Lamp Luminous Flux.(8log(F/F0) = -5.1)

Test System:HOPPO HP880D
Temperature:25.3DEG
Operators:
Test Date:06-30-2023

Test Set: 10.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:1.000 m
Remarks:

UTILIZATION FACTORS TABLE

Report number:

MANUFACTURER:										
Address:										
NAME:					TYPE:			WEIGHT:		
SPECIFICATION:			CCT(K): 0		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) $k(RI) \times RCR = 5$									
$k = 0.60$	34	21	13	33	20	13	30	19	12	5
0.80	43	28	19	40	27	18	36	24	17	8
1.00	50	35	25	47	33	24	41	32	22	11
1.25	57	41	31	53	39	30	46	35	27	14
1.50	62	47	37	58	44	35	50	39	31	17
2.00	70	56	46	65	53	43	56	46	38	21
2.50	75	62	52	70	58	49	60	51	43	25
3.00	80	68	58	74	63	54	63	55	48	28
4.00	85	75	66	79	70	62	68	60	54	32
5.00	89	80	72	82	74	67	71	64	58	35
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004					Suspended			SHRNOM = 1.25		

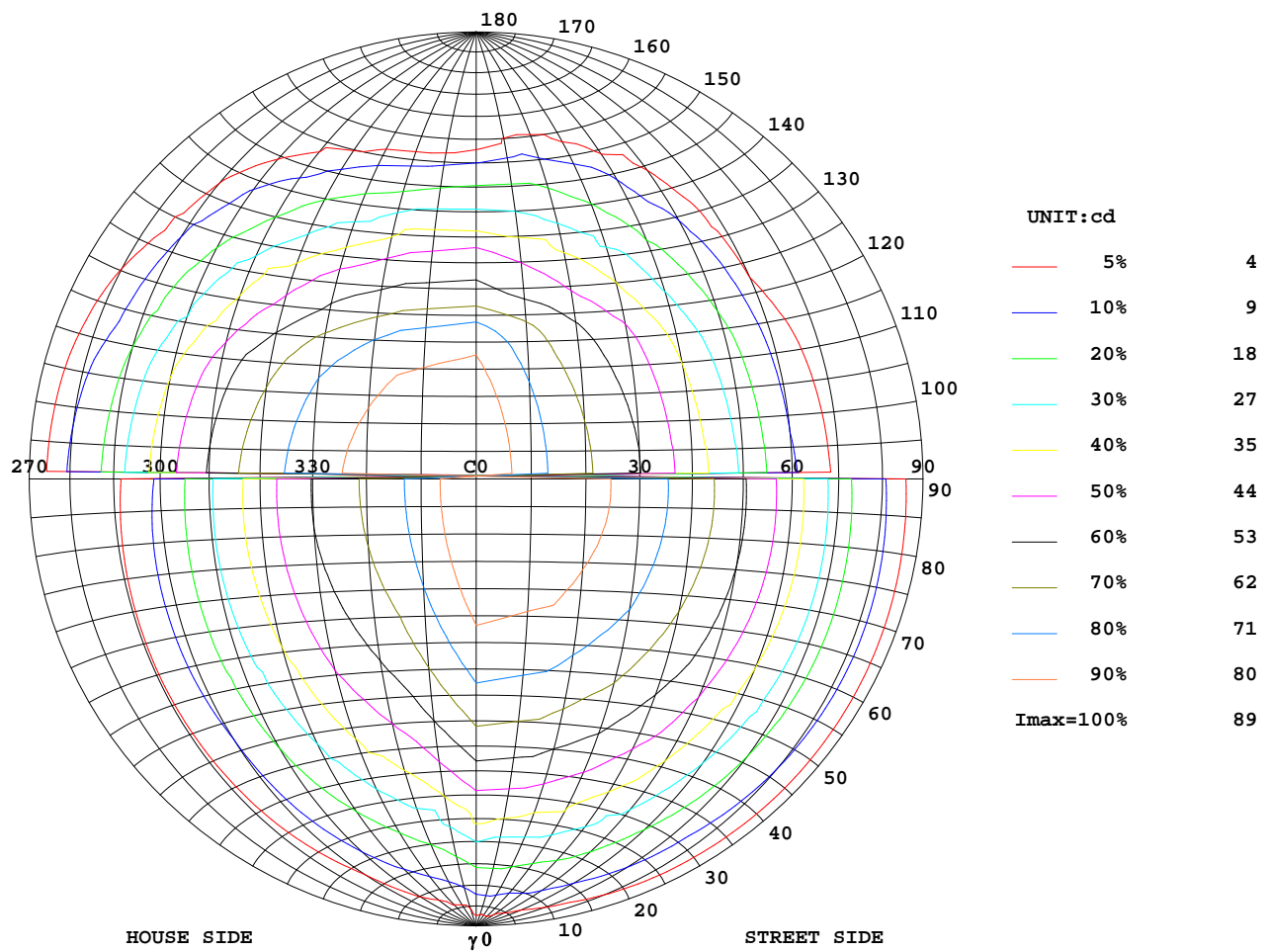
Test System:HOP00 HP880D
 Temperature:25.3DEG
 Operators:
 Test Date:06-30-2023

Test Set: 10.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:1.000 m
 Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME:		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 0	DIMENSION:	SERIAL No.:



Test System:HOP00 HP880D
Temperature:25.3DEG
Operators:
Test Date:06-30-2023

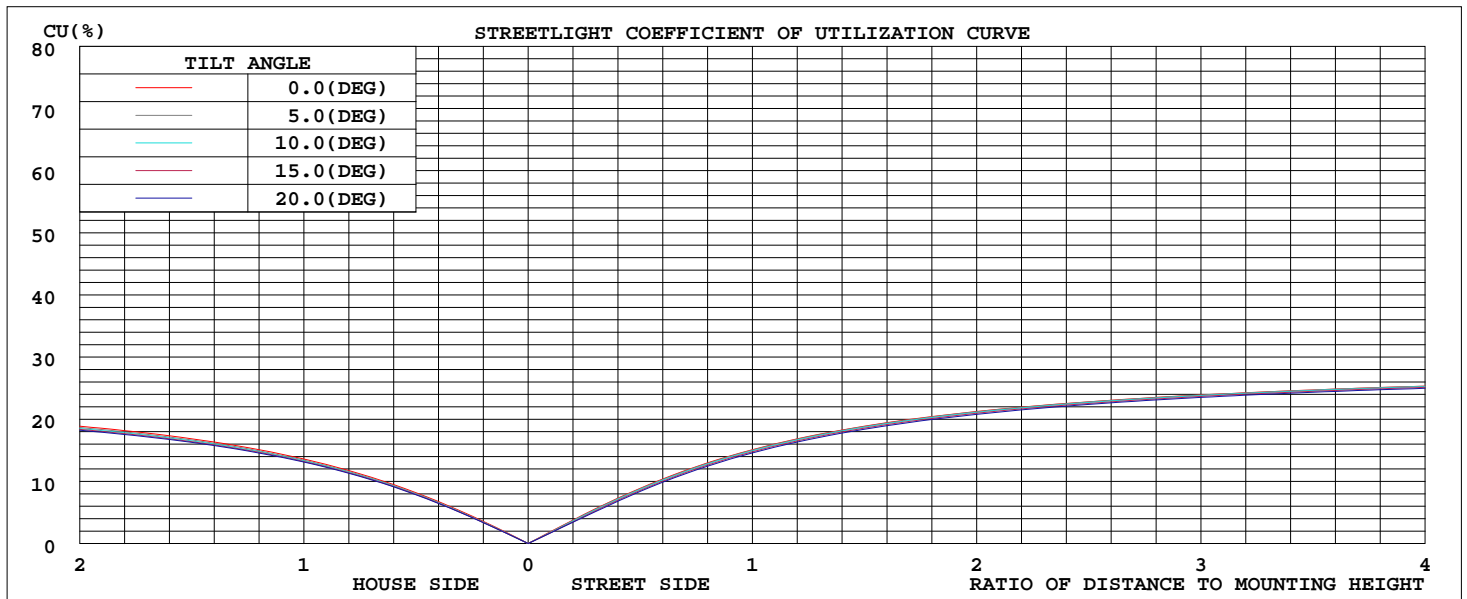
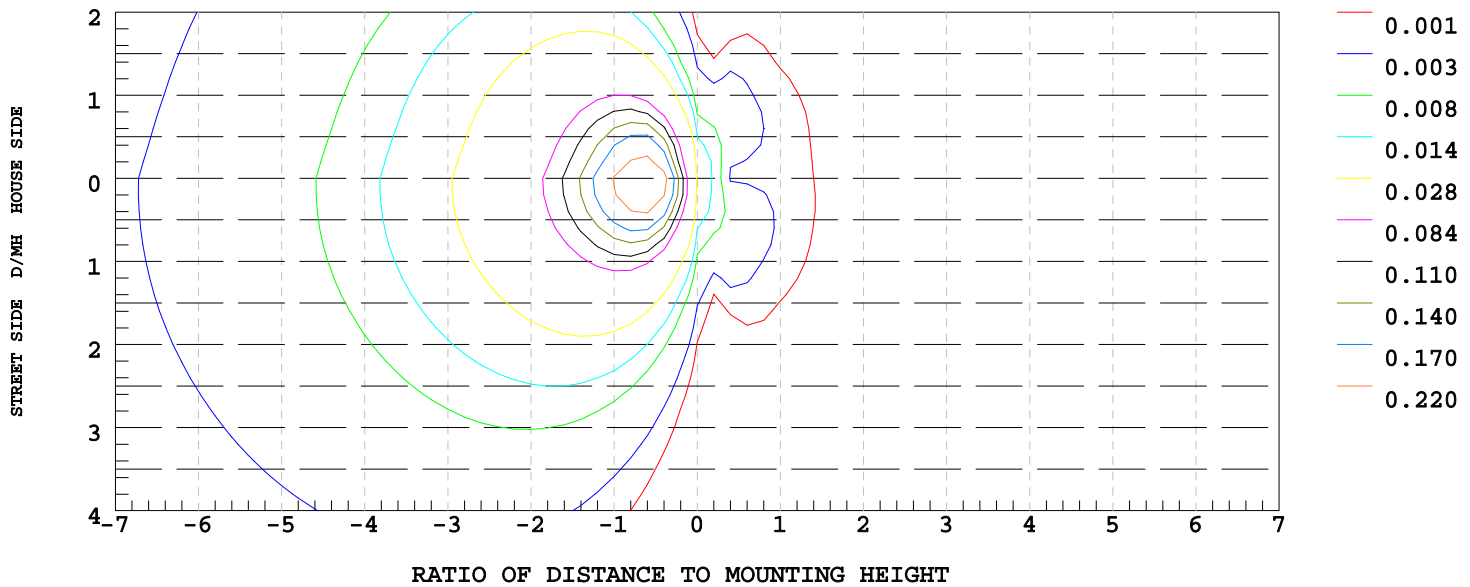
Test Set: 10.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:1.000 m
Remarks:

ISOLUX DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME:		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 0	DIMENSION:	SERIAL No.:

ILLUMINANCE AT MH=10 m,Enadir = 0.02 lx



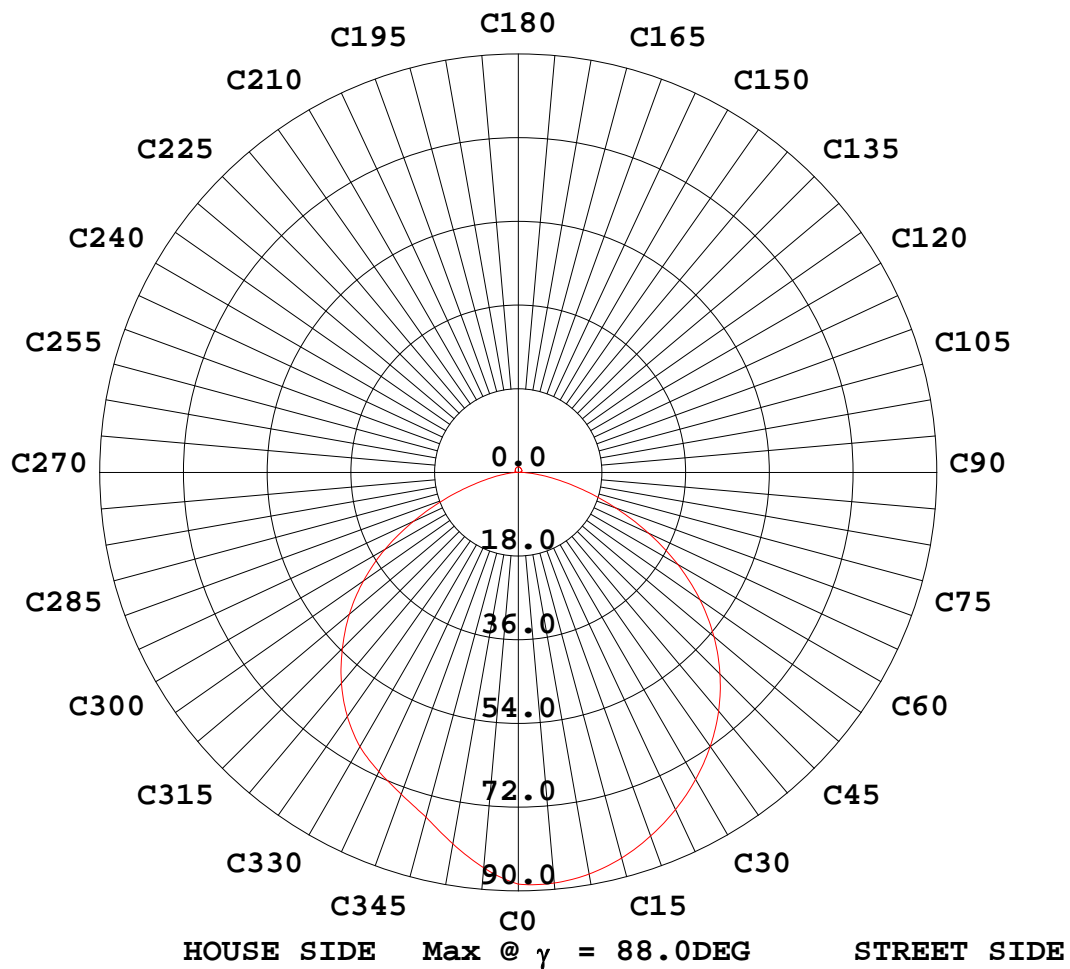
Test System:HOP00 HP880D
Temperature:25.3DEG
Operators:
Test Date:06-30-2023

Test Set: 10.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:1.000 m
Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME:		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 0	DIMENSION:	SERIAL No.:



Test System:HOP00 HP880D
Temperature:25.3DEG
Operators:
Test Date:06-30-2023

Test Set: 10.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:1.000 m
Remarks:

HONGPU GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER:															
Address:															
NAME:								TYPE:				WEIGHT:			
SPECIFICATION:				CCT(K): 0				DIMENSION:				SERIAL No.:			

UNIT: cd

C (DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210
0.0	2.21	2.82	2.25	2.78	2.32	2.24	2.38	2.21	2.07	1.92	1.88	1.78	2.21	2.82	2.25
5.0	5.67	6.01	5.31	4.80	4.12	3.23	2.42	1.91	1.81	1.54	1.62	1.46	1.54	1.71	1.53
10.0	11.7	11.9	10.0	8.61	5.91	3.87	2.45	1.65	1.60	1.48	1.51	1.33	1.40	1.54	1.43
15.0	18.9	18.9	16.0	13.1	8.55	4.88	2.46	1.58	1.56	1.37	1.37	1.09	1.12	1.38	1.30
20.0	26.7	24.5	22.6	18.1	11.5	6.03	2.45	1.54	1.51	1.23	1.09	0.51	0.36	0.80	0.89
25.0	36.5	34.4	29.2	23.6	15.0	7.30	2.39	1.53	1.45	1.07	0.79	0.50	0.31	0.36	0.47
30.0	43.0	41.7	36.5	29.0	18.3	8.49	2.27	1.52	1.38	1.05	0.79	0.53	0.36	0.40	0.53
35.0	50.2	48.7	42.8	34.1	21.6	9.68	2.18	1.49	1.36	1.07	0.81	0.58	0.43	0.46	0.58
40.0	56.8	55.2	48.7	38.9	24.9	10.8	2.11	1.46	1.35	1.08	0.83	0.65	0.53	0.53	0.65
45.0	63.1	61.2	54.2	43.6	28.0	12.0	2.01	1.40	1.32	1.09	0.86	0.70	0.60	0.62	0.72
50.0	68.4	66.4	58.9	47.5	30.7	12.9	1.89	1.34	1.29	1.09	0.88	0.74	0.66	0.68	0.77
55.0	73.1	70.9	63.1	50.9	33.6	13.8	1.74	1.26	1.27	1.09	0.89	0.78	0.72	0.73	0.82
60.0	77.3	75.0	66.8	54.0	35.6	14.5	1.59	1.17	1.23	1.07	0.90	0.82	0.79	0.79	0.86
65.0	80.7	78.3	69.8	56.5	37.2	15.0	1.44	1.08	1.20	1.06	0.92	0.86	0.86	0.85	0.90
70.0	83.5	81.0	72.2	58.4	38.4	15.2	1.28	0.98	1.15	1.06	0.94	0.90	0.92	0.91	0.94
75.0	85.8	83.2	74.1	59.9	39.2	15.2	1.09	0.86	1.08	1.05	0.97	0.97	0.99	0.96	0.97
80.0	87.4	84.7	75.4	60.8	39.7	15.0	0.91	0.73	1.02	1.05	1.01	1.07	1.06	1.02	1.00
85.0	88.3	85.6	76.1	61.2	39.7	14.6	0.72	0.60	0.95	1.03	1.06	1.16	1.19	1.11	1.05
90.0	88.5	85.8	76.2	61.2	39.4	14.1	0.52	0.40	0.81	0.90	1.07	1.14	1.27	1.21	1.06
95.0	87.9	85.2	75.5	60.5	38.7	13.4	0.43	0.39	0.62	0.73	0.78	0.82	1.15	1.19	0.93
100.0	86.6	83.9	74.2	59.2	37.5	12.6	0.37	0.40	0.60	0.71	0.73	0.79	0.89	0.90	0.79
105.0	84.4	81.7	72.1	57.2	35.7	11.5	0.33	0.40	0.58	0.69	0.71	0.76	0.86	0.87	0.77
110.0	81.6	78.9	69.4	54.3	32.9	9.87	0.30	0.39	0.56	0.65	0.68	0.73	0.83	0.84	0.74
115.0	77.7	74.5	63.7	48.3	28.8	8.30	0.28	0.37	0.52	0.60	0.64	0.69	0.79	0.81	0.70
120.0	66.8	63.1	54.5	41.9	24.3	6.59	0.26	0.34	0.48	0.55	0.60	0.64	0.75	0.76	0.66
125.0	55.3	54.1	48.3	36.9	19.8	5.09	0.25	0.32	0.44	0.49	0.56	0.59	0.70	0.72	0.62
130.0	49.5	47.6	39.2	28.0	15.6	4.17	0.24	0.29	0.40	0.43	0.50	0.53	0.63	0.66	0.56
135.0	38.4	36.9	30.2	20.9	10.8	2.25	0.22	0.25	0.35	0.36	0.44	0.45	0.56	0.59	0.49
140.0	28.6	26.9	21.9	15.0	7.22	1.30	0.20	0.21	0.29	0.28	0.37	0.37	0.48	0.51	0.42
145.0	18.4	16.6	13.7	8.37	4.02	0.69	0.17	0.17	0.23	0.21	0.29	0.28	0.39	0.44	0.34
150.0	8.76	7.96	5.73	2.81	1.20	0.30	0.14	0.13	0.17	0.14	0.21	0.19	0.29	0.33	0.25
155.0	0.29	0.13	0.58	0.08	0.14	0.05	0.09	0.06	0.11	0.08	0.14	0.11	0.19	0.24	0.18
160.0	0.16	0.03	0.14	0.02	0.08	0.02	0.03	0.04	0.06	0.04	0.08	0.05	0.10	0.15	0.10
165.0	0.08	0.01	0.08	0.01	0.06	0.02	0.03	0.03	0.05	0.02	0.04	0.02	0.04	0.08	0.05
170.0	0.05	0.01	0.06	0.01	0.05	0.02	0.02	0.02	0.03	0.01	0.02	0.01	0.01	0.04	0.02
175.0	0.05	0.02	0.05	0.01	0.04	0.02	0.02	0.02	0.02	0.01	0.02	0.01	0.00	0.02	0.01
180.0	0.02	0.02	0.03	0.01	0.03	0.02	0.01	0.02	0.02	0.01	0.01	0.01	0.00	0.01	0.01

Test System:HOPPO HP880D
 Temperature:25.3DEG
 Operators:
 Test Date:06-30-2023

Test Set: 10.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:1.000 m
 Remarks:

HONGPU GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER:				
Address:				
NAME:			TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 0	DIMENSION:		SERIAL No.:

UNIT: cd

C (DEG)									
γ (DEG)	225	240	255	270	285	300	315	330	345
0.0	2.78	2.32	2.24	2.38	2.21	2.07	1.92	1.88	1.78
5.0	1.80	1.68	2.10	2.30	2.68	3.36	3.18	4.15	5.12
10.0	1.56	1.51	1.75	2.22	3.54	4.96	6.46	8.40	8.86
15.0	1.44	1.47	1.59	2.15	3.95	7.25	10.2	13.6	14.9
20.0	1.34	1.40	1.53	2.06	4.74	9.74	14.5	19.4	21.8
25.0	1.10	1.32	1.51	1.96	5.65	12.5	19.3	25.1	29.0
30.0	0.83	1.20	1.46	1.85	6.53	15.3	23.9	31.8	36.2
35.0	0.82	1.14	1.41	1.72	7.28	18.0	28.4	37.5	42.6
40.0	0.86	1.14	1.36	1.60	7.99	20.6	34.2	43.0	48.7
45.0	0.90	1.14	1.33	1.48	8.60	23.0	37.1	47.8	54.0
50.0	0.93	1.13	1.28	1.35	9.14	25.2	40.6	52.0	58.7
55.0	0.95	1.11	1.23	1.22	9.63	27.3	43.8	55.9	62.9
60.0	0.97	1.09	1.17	1.09	9.99	29.3	46.4	59.1	66.4
65.0	0.98	1.05	1.10	0.96	10.2	30.7	48.7	61.8	69.5
70.0	0.97	1.00	1.02	0.82	10.3	31.8	50.6	64.1	72.1
75.0	0.96	0.94	0.93	0.69	10.4	32.6	51.9	65.9	74.0
80.0	0.95	0.88	0.82	0.55	10.3	33.1	52.9	67.1	75.4
85.0	0.94	0.81	0.70	0.41	10.0	33.2	53.4	67.9	76.4
90.0	0.92	0.70	0.56	0.27	9.66	33.0	53.4	68.1	76.8
95.0	0.80	0.52	0.37	0.15	9.13	32.6	53.0	67.9	76.6
100.0	0.66	0.49	0.30	0.15	8.53	31.2	52.1	67.0	75.7
105.0	0.64	0.48	0.30	0.15	7.85	30.0	50.8	65.6	74.2
110.0	0.62	0.46	0.29	0.15	7.08	28.4	49.0	63.6	72.2
115.0	0.60	0.44	0.28	0.15	6.08	26.0	46.5	60.8	69.5
120.0	0.57	0.42	0.27	0.14	4.91	22.5	41.0	55.4	64.8
125.0	0.53	0.39	0.26	0.14	3.91	19.0	35.4	47.2	54.4
130.0	0.48	0.35	0.24	0.14	2.98	15.3	30.6	41.3	46.7
135.0	0.43	0.31	0.22	0.13	2.18	11.6	23.5	32.3	40.2
140.0	0.37	0.26	0.20	0.12	1.49	8.01	17.9	25.3	30.5
145.0	0.32	0.22	0.18	0.11	0.99	5.63	13.0	18.4	23.1
150.0	0.25	0.17	0.15	0.09	0.54	2.35	7.02	10.2	14.3
155.0	0.18	0.12	0.12	0.08	0.29	0.16	3.16	6.90	6.29
160.0	0.12	0.07	0.09	0.04	0.13	0.03	0.34	0.06	0.24
165.0	0.07	0.04	0.05	0.03	0.05	0.02	0.10	0.02	0.12
170.0	0.04	0.03	0.04	0.02	0.04	0.02	0.06	0.01	0.07
175.0	0.03	0.02	0.03	0.01	0.04	0.02	0.05	0.01	0.06
180.0	0.02	0.01	0.02	0.01	0.03	0.02	0.03	0.02	0.03

Test System:HOPPO HP880D
 Temperature:25.3DEG
 Operators:
 Test Date:06-30-2023

Test Set: 10.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:1.000 m
 Remarks: