

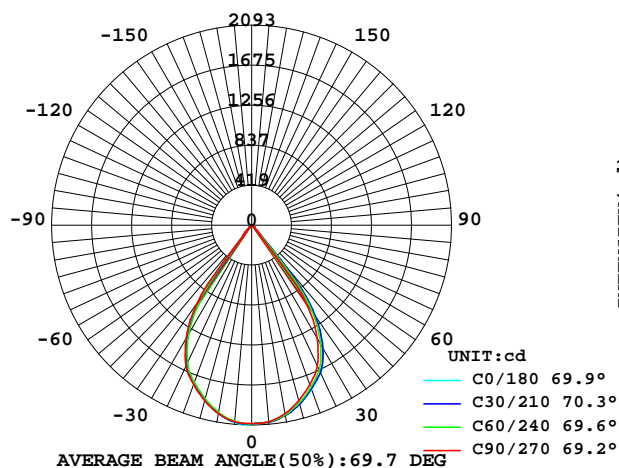
## HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

## STREETLIGHT PHOTOMETRIC TEST REPORT

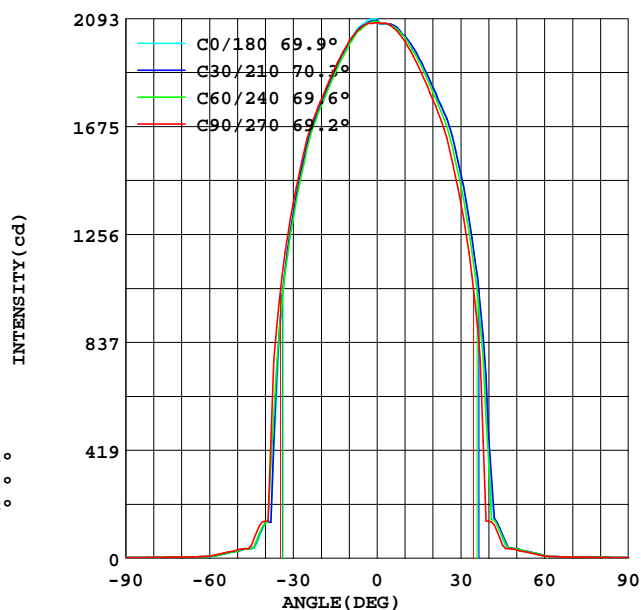
Report number:

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

MODEL:	86212BK	Imax(cd):	2093	Effective Flux(lm):	2024.7
NOMINAL POWER(W):	20	MAXIMUM(C, $\gamma$ ):	0, 0.0	EEI	0.133
RATED VOLTAGE(V):	110	EFFICIENCY(%):	100.0	Voltage(V)	110.0
NOMINAL FLUX(lm):	2100.8	$\eta$ street_up(%):	0.0	Current(A)	0.182
TEST FLUX(lm):	2101	$\eta$ street_down(%):	49.7	Power(W)	19.80
LAMPS QUANTITY:	1	$\eta$ house_up(%):	0.0	Power Factor	0.989
TOTAL FLUX(lm):	2101	$\eta$ house_down(%):	50.3	EEFICIENCY(lm/W)	106.0

INTENSITY DISTRIBUTION DIAGRAM  
IN C PLANSINTENSITY DISTRIBUTION DIAGRAM  
IN C PLANS

LUMINOUS INTENSITY DISTRIBUTION



Test System:HOPOO HPG1600  
Temperature:25.3DEG  
Operators:  
Test Date:07-27-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:10.400 m  
Remarks:

# HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

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## Color Temperature Data List

Report number:

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

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Test System:HOPOO HPG1600  
Temperature:25.3DEG  
Operators:  
Test Date:07-27-2023

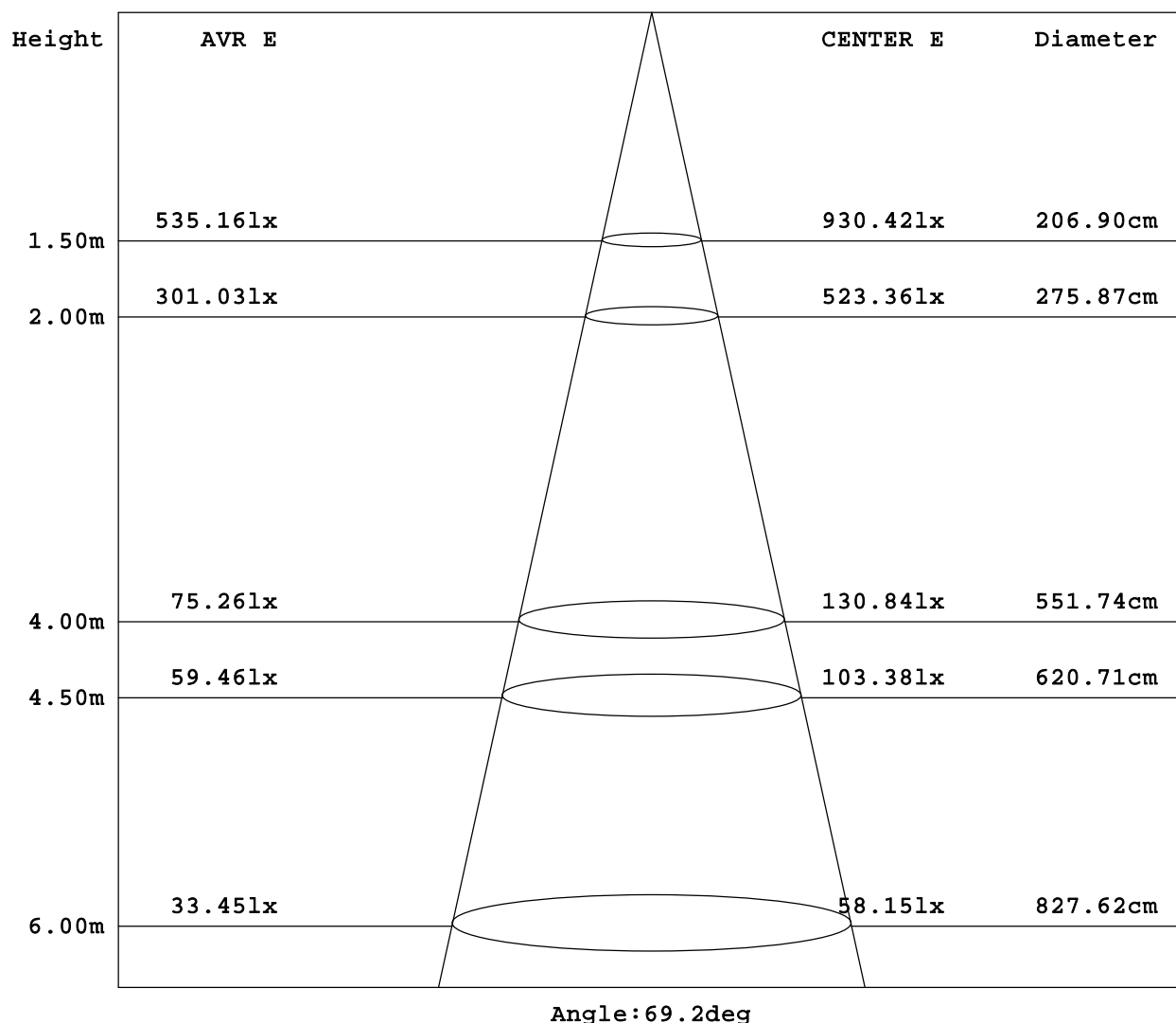
Test Set: 5.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:10.400 m  
Remarks:

# HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

## AVERAGE AND CENTER E Figure

Report number:

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



Test System: HOPOO HPG1600  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 07-27-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity: 65.0%  
 Test Distance: 10.400 m  
 Remarks:

# HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

## ZONAL FLUX DIAGRAM

Report number:

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

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	Zone	total
5.0	2072	2050	2066	2060	2068	2060	2066	2050	0- 5	49.49	49.49
10.0	2002	1976	2005	2014	2023	2014	2005	1976	5- 10	145.4	194.9
15.0	1896	1860	1904	1923	1937	1923	1904	1860	10- 15	231.5	426.5
20.0	1771	1733	1778	1806	1829	1806	1778	1733	15- 20	303.2	729.8
25.0	1615	1554	1629	1670	1707	1670	1629	1554	20- 25	358.2	1088
30.0	1336	1266	1379	1446	1491	1446	1379	1266	25- 30	382.2	1470
35.0	861.3	802.1	996.8	1111	1156	1111	996.8	802.1	30- 35	353.5	1824
40.0	136.7	113.6	143.0	397.6	426.3	397.6	143.0	113.6	35- 40	199.0	2023
45.0	38.93	26.17	49.75	68.68	74.41	68.68	49.75	26.17	40- 45	41.19	2064
50.0	28.22	18.17	32.33	27.25	36.12	27.25	32.33	18.17	45- 50	13.85	2078
55.0	16.44	8.760	20.98	16.76	22.28	16.76	20.98	8.760	50- 55	9.461	2087
60.0	6.922	0.973	8.436	4.218	9.518	4.218	8.436	0.973	55- 60	4.822	2092
65.0	5.948	0.973	5.732	0.541	6.381	0.541	5.732	0.973	60- 65	1.954	2094
70.0	5.191	0.973	4.867	0.757	5.191	0.757	4.867	0.973	65- 70	1.565	2096
75.0	4.218	0.324	4.434	0.541	4.542	0.541	4.434	0.324	70- 75	1.414	2097
80.0	3.785	0.541	3.569	0.865	3.893	0.865	3.569	0.541	75- 80	1.257	2098
85.0	2.704	0.757	3.244	0.649	3.569	0.649	3.244	0.757	80- 85	1.196	2100
90.0	2.920	1.081	3.028	1.514	3.136	1.514	3.028	1.081	85- 90	1.132	2101
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:cd									UNIT:lm	

Test System:HOPOO HPG1600  
 Temperature:25.3DEG  
 Operators:  
 Test Date:07-27-2023

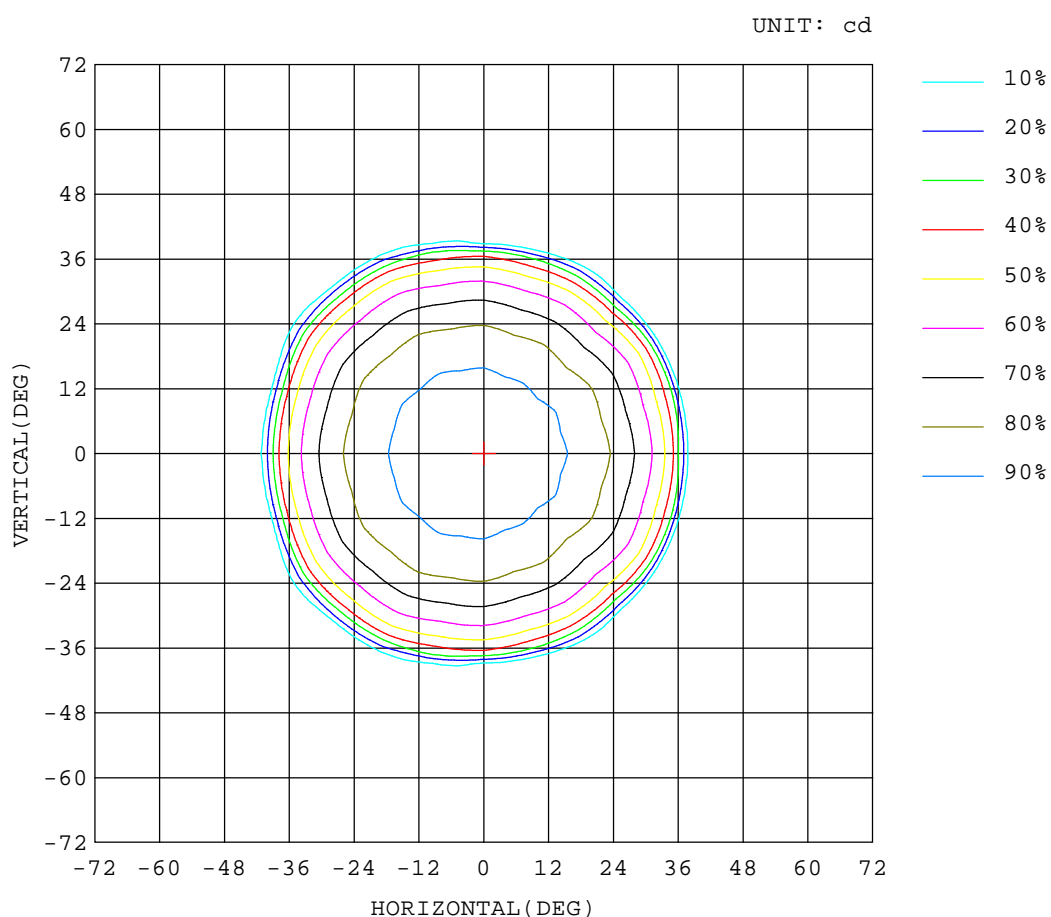
Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:10.400 m  
 Remarks:

# HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

## ISOCANDELA DIAGRAM

Report number:

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



Test System:HOPOO HPG1600  
Temperature:25.3DEG  
Operators:  
Test Date:07-27-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:10.400 m  
Remarks:

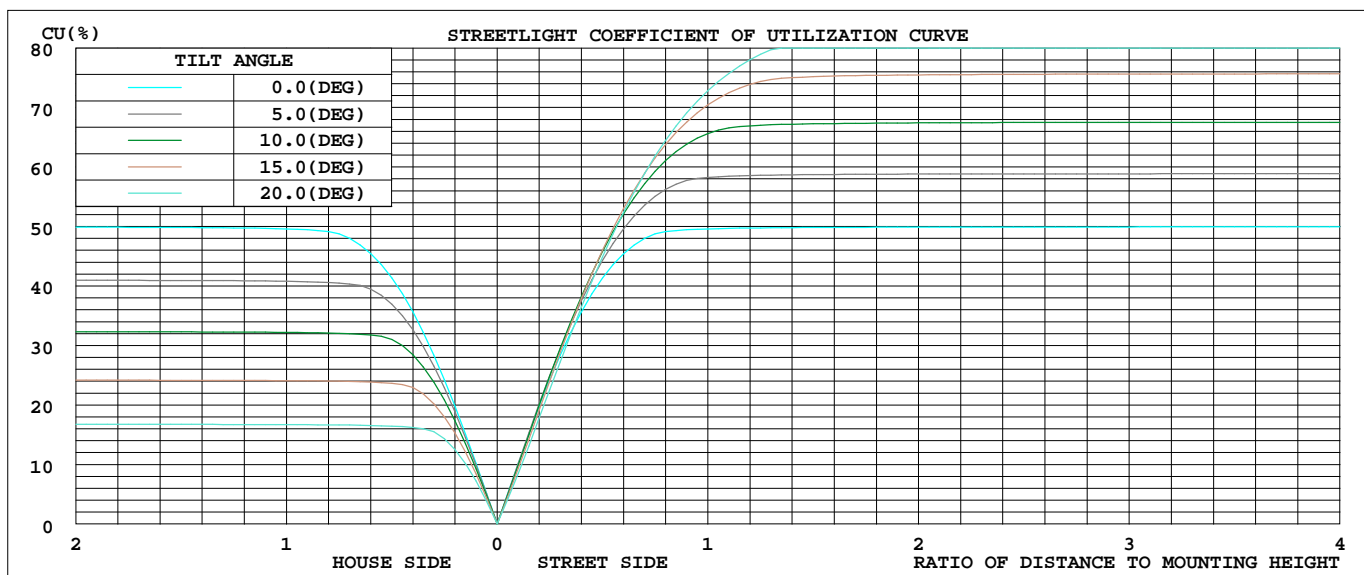
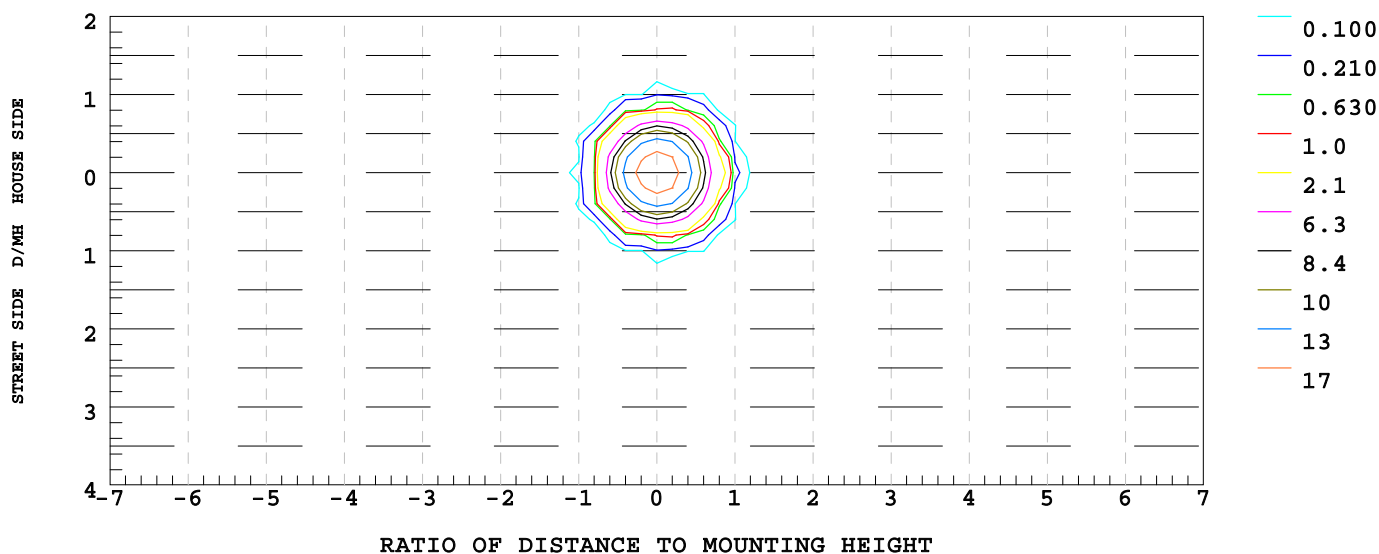
# HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

## ISOLUX DIAGRAM

Report number:

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

ILLUMINANCE AT MH=10 m, Enadir = 20.93 lx



Test System:HOPOO HPG1600  
 Temperature:25.3DEG  
 Operators:  
 Test Date:07-27-2023

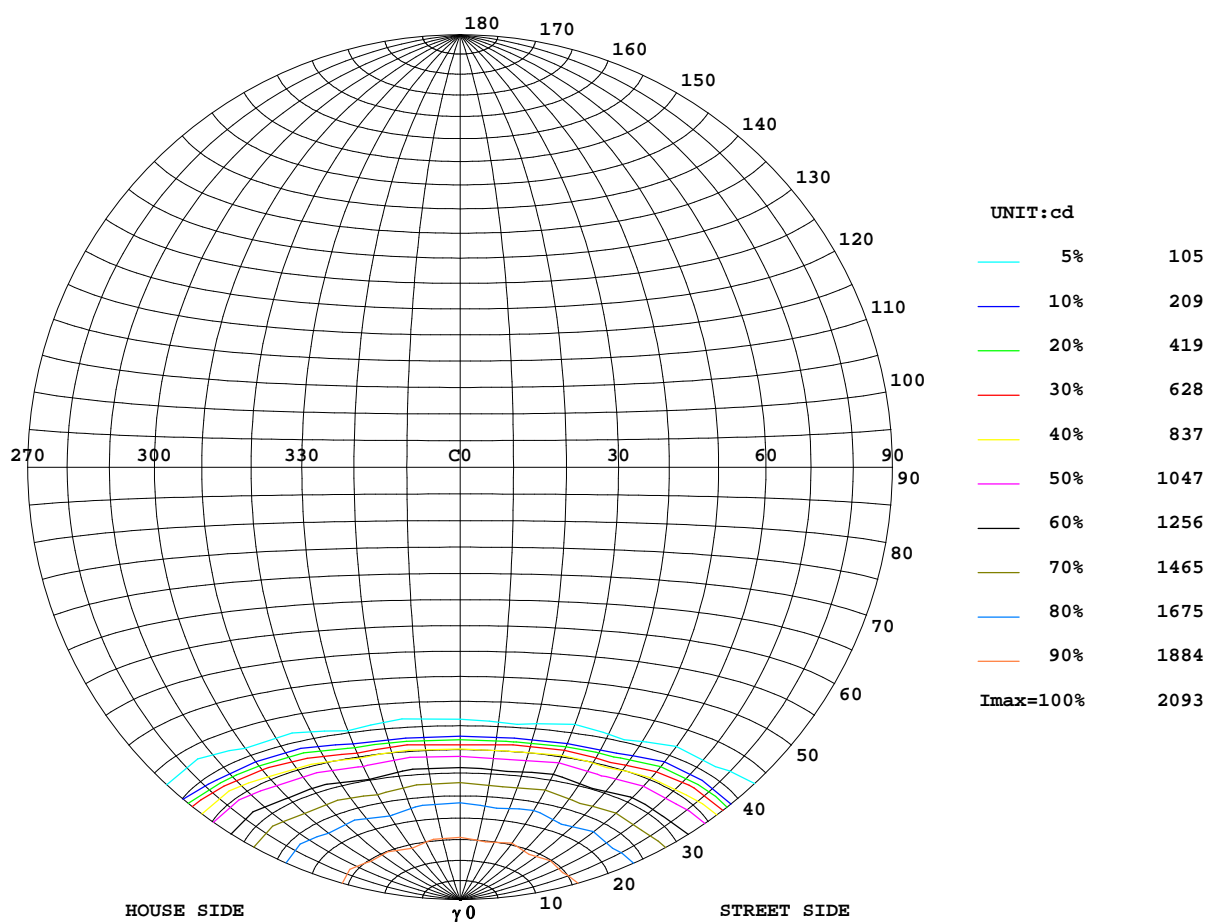
Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:10.400 m  
 Remarks:

# HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

## ISOCANDELA DIAGRAM

Report number:

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



Test System:HOPOO HPG1600  
Temperature:25.3DEG  
Operators:  
Test Date:07-27-2023

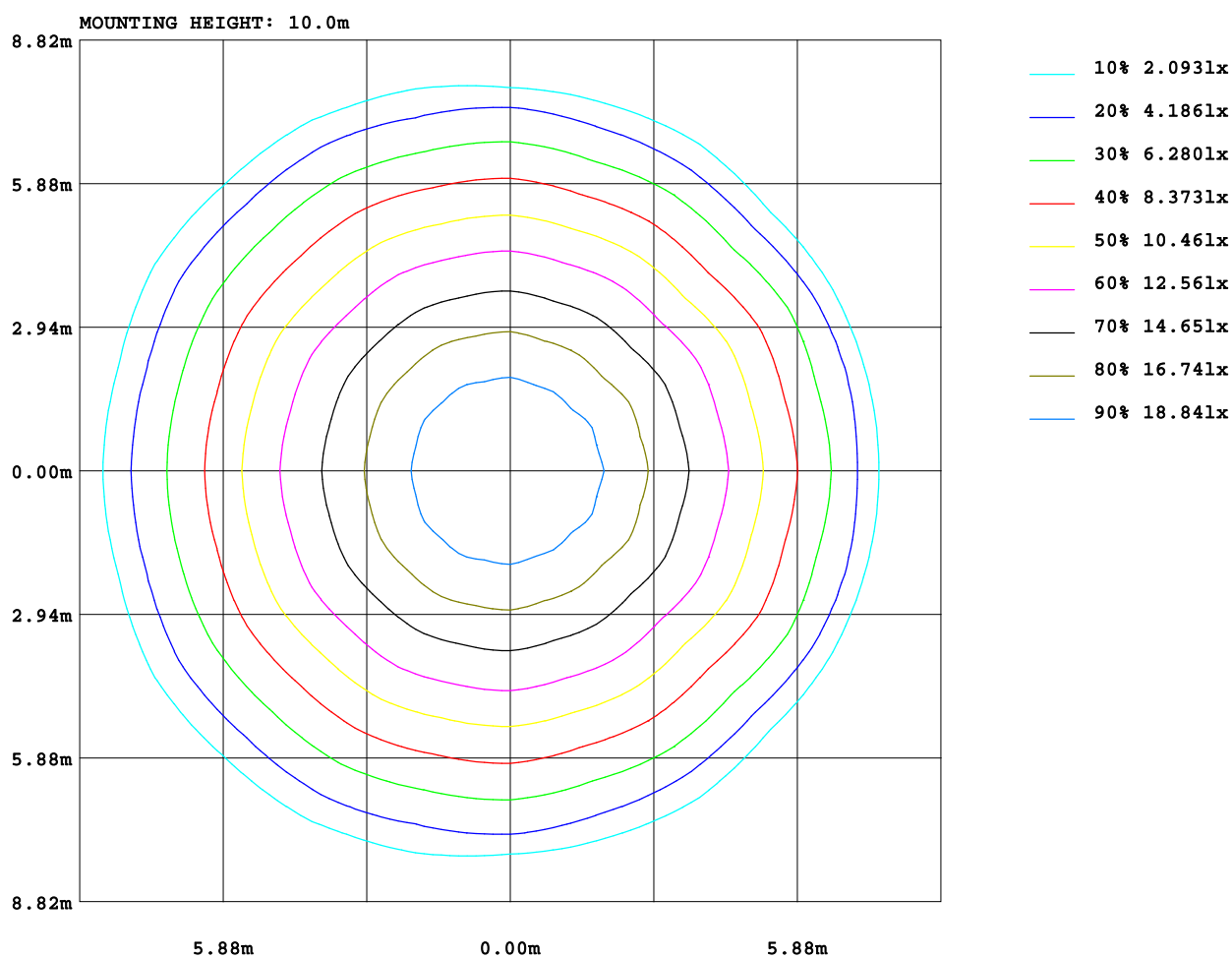
Test Set: 5.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:10.400 m  
Remarks:

# HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

## ISOLUX DIAGRAM

Report number:

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



Test System:HOPOO HPG1600  
Temperature:25.3DEG  
Operators:  
Test Date:07-27-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:10.400 m  
Remarks:

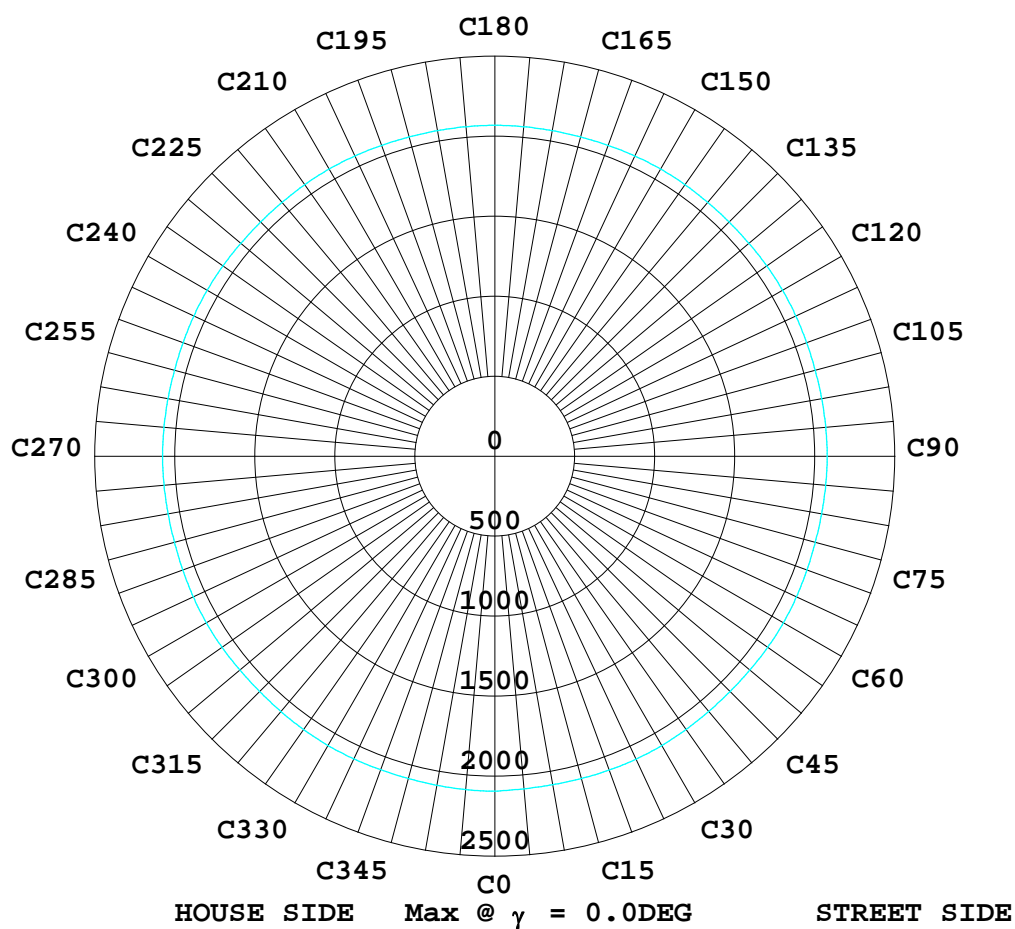


# HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

## ISOCANDELA DIAGRAM

Report number:

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



Test System:HOPOO HPG1600  
Temperature:25.3DEG  
Operators:  
Test Date:07-27-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:10.400 m  
Remarks:

# HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

## AREA LUMINOUS FLUX

Report number:

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

72	AREA FLUX DIAGRAM																		UNIT:1m		Φ t	Φ a
	0.02	0.04	0.03	0.02	0.04	0.08	0.05	0.03	0.08	0.08	0.03	0.05	0.07	0.04	0.02	0.03	0.03	0.01	0.74	0.00		
64	0.01	0.04	0.05	0.03	0.04	0.10	0.10	0.08	0.16	0.15	0.06	0.07	0.09	0.04	0.02	0.04	0.03	0.01	1.10	0.00		
56	0.01	0.03	0.06	0.05	0.10	0.28	0.38	0.37	0.48	0.46	0.31	0.28	0.18	0.04	0.04	0.05	0.03	0.01	3.16	0.00		
48	0.01	0.03	0.07	0.16	0.29	0.51	0.90	1.19	1.52	1.38	0.85	0.61	0.39	0.17	0.09	0.06	0.03	0.01	8.27	0.00		
40	0.01	0.02	0.11	0.34	0.54	1.59	6.71	12.5	15.1	13.7	8.99	3.16	0.76	0.39	0.24	0.07	0.02	0.01	64.5	55.6		
32	0.01	0.02	0.16	0.45	1.82	10.5	21.3	26.5	28.4	27.7	24.3	16.5	4.27	0.84	0.35	0.09	0.01	0.01	164	159		
24	0.02	0.04	0.20	0.64	6.86	20.8	28.2	32.6	34.3	33.8	31.2	25.5	15.8	2.29	0.39	0.13	0.02	0.02	233	229		
VERTICAL (DEG)	0.03	0.07	0.27	1.01	12.2	24.9	31.7	35.8	37.9	37.4	34.6	30.2	22.0	6.43	0.53	0.20	0.04	0.03	276	273		
	0.04	0.10	0.33	1.56	15.4	26.7	33.1	37.5	39.8	39.6	36.8	31.8	24.3	9.42	0.80	0.26	0.07	0.03	298	295		
	0.04	0.10	0.33	1.56	15.4	26.7	33.1	37.5	39.8	39.6	36.8	31.8	24.3	9.42	0.80	0.26	0.07	0.03	298	295		
	0.03	0.07	0.27	1.01	12.2	24.9	31.7	35.8	37.9	37.4	34.6	30.2	22.0	6.43	0.53	0.20	0.04	0.03	276	273		
	0.02	0.04	0.20	0.64	6.86	20.8	28.2	32.6	34.3	33.8	31.2	25.5	15.8	2.29	0.39	0.13	0.02	0.02	233	229		
	0.01	0.02	0.16	0.45	1.82	10.5	21.3	26.5	28.4	27.7	24.3	16.5	4.27	0.84	0.35	0.09	0.01	0.01	164	159		
	0.01	0.02	0.11	0.34	0.54	1.59	6.71	12.5	15.1	13.7	8.99	3.16	0.76	0.39	0.24	0.07	0.02	0.01	64.5	55.6		
	0.01	0.03	0.07	0.16	0.29	0.51	0.90	1.19	1.52	1.38	0.85	0.61	0.39	0.17	0.09	0.06	0.03	0.01	8.27	0.00		
	0.01	0.03	0.06	0.05	0.10	0.28	0.38	0.37	0.48	0.46	0.31	0.28	0.18	0.04	0.04	0.05	0.03	0.01	3.16	0.00		
	0.01	0.04	0.05	0.03	0.04	0.10	0.10	0.08	0.16	0.15	0.06	0.07	0.09	0.04	0.02	0.04	0.03	0.01	1.10	0.00		
-72	0.02	0.04	0.03	0.02	0.04	0.08	0.05	0.03	0.08	0.08	0.03	0.05	0.07	0.04	0.02	0.03	0.03	0.01	0.74	0.00		
-72    -64    -56    -48    -40    -32    -24    -16    HORIZONTAL (DEG)    16    24    32    40    48    56    64    72																						
Φ t	0.32	0.76	2.58	8.53	74.7	172	245	294	316	309	275	217	136	39.3	4.94	1.86	0.56	0.29	2101			
Φ a	0.00	0.00	0.00	0.79	67.8	166	240	289	311	304	270	212	130	30.2	0.00	0.00	0.00	0.00		2025		

Test System:HOPOO HPG1600  
 Temperature:25.3DEG  
 Operators:  
 Test Date:07-27-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:10.400 m  
 Remarks:

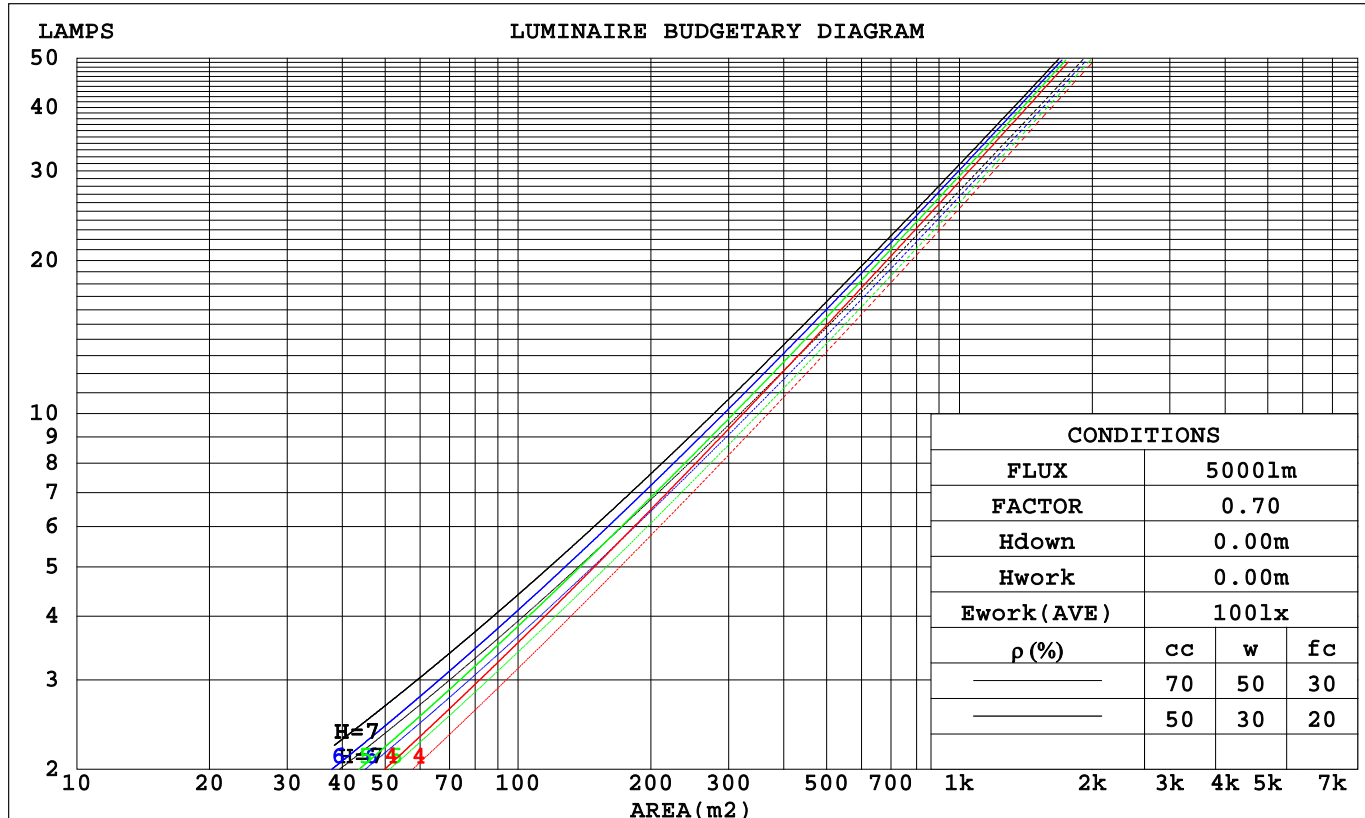
# HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

## 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															



Test System:HOPOO HPG1600  
 Temperature:25.3DEG  
 Operators:  
 Test Date:07-27-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:10.400 m  
 Remarks:

# HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

## WEC AND CCEC

Report number:

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

$\rho_{cc}$	80%			70%			50%			30%			10%			0														
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0														
$\rho_{fc}$	20%			20%			20%			20%			20%			0														
RCR	RCR:Room Cavity Ratio															Wall Exitance Coefficients(WEC)														
0.0																														
1.0	.179	.102	.032	.172	.098	.031	.160	.092	.029	.148	.085	.027	.137	.080	.026															
2.0	.171	.094	.029	.166	.091	.028	.155	.086	.027	.145	.082	.026	.136	.077	.024															
3.0	.163	.087	.026	.159	.085	.026	.150	.081	.025	.141	.077	.024	.133	.074	.023															
4.0	.156	.081	.024	.152	.079	.023	.144	.076	.023	.137	.073	.022	.130	.071	.022															
5.0	.149	.076	.022	.145	.075	.022	.139	.072	.021	.132	.070	.021	.126	.067	.020															
6.0	.143	.071	.020	.139	.070	.020	.133	.068	.020	.128	.066	.020	.122	.064	.019															
7.0	.137	.068	.019	.134	.067	.019	.128	.065	.019	.123	.063	.018	.119	.062	.018															
8.0	.131	.064	.018	.128	.063	.018	.124	.062	.018	.119	.060	.017	.115	.059	.017															
9.0	.126	.061	.017	.123	.060	.017	.119	.059	.017	.115	.058	.017	.111	.057	.016															
10.0	.121	.058	.016	.119	.057	.016	.115	.056	.016	.111	.055	.016	.108	.054	.016															

$\rho_{cc}$	80%			70%			50%			30%			10%			0	
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
$\rho_{fc}$	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	.147	.135	.125	.100	.093	.086	.058	.054	.050	.018	.017	.016		
2.0	.156	.132	.113	.134	.114	.097	.092	.079	.068	.053	.046	.040	.017	.015	.013		
3.0	.144	.114	.089	.123	.098	.077	.085	.068	.054	.049	.040	.032	.016	.013	.010		
4.0	.134	.099	.072	.115	.085	.063	.079	.060	.044	.046	.035	.026	.015	.011	.009		
5.0	.125	.087	.059	.108	.076	.052	.074	.053	.036	.043	.031	.022	.014	.010	.007		
6.0	.118	.078	.049	.102	.068	.043	.070	.047	.030	.041	.028	.018	.013	.009	.006		
7.0	.112	.071	.042	.096	.061	.036	.067	.043	.026	.039	.025	.015	.012	.008	.005		
8.0	.106	.064	.036	.092	.056	.031	.063	.039	.022	.037	.023	.013	.012	.008	.004		
9.0	.101	.059	.031	.087	.052	.027	.061	.036	.019	.035	.021	.011	.011	.007	.004		
10.0	.097	.055	.027	.084	.048	.024	.058	.034	.017	.034	.020	.010	.011	.007	.003		

Test System:HOPOO HPG1600  
 Temperature:25.3DEG  
 Operators:  
 Test Date:07-27-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:10.400 m  
 Remarks:

# HOPOO 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	11.6	12.5	11.8	12.7	12.9	11.7	12.7	11.9	12.8	13.0
3H	11.4	12.3	11.7	12.5	12.7	11.5	12.4	11.8	12.6	12.8
4H	11.3	12.2	11.6	12.4	12.6	11.4	12.3	11.7	12.5	12.7
6H	11.2	12.0	11.5	12.3	12.5	11.4	12.1	11.6	12.4	12.6
8H	11.2	12.0	11.5	12.2	12.5	11.3	12.1	11.6	12.3	12.6
12H	11.2	11.9	11.5	12.2	12.4	11.3	12.0	11.6	12.3	12.5
4H 2H	11.3	12.1	11.6	12.4	12.6	11.4	12.3	11.7	12.5	12.7
3H	11.1	11.9	11.5	12.1	12.4	11.3	12.0	11.6	12.2	12.5
4H	11.1	11.7	11.4	12.0	12.3	11.2	11.8	11.5	12.1	12.4
6H	11.0	11.5	11.3	11.9	12.2	11.1	11.6	11.5	12.0	12.3
8H	10.9	11.5	11.3	11.8	12.2	11.0	11.6	11.4	11.9	12.3
12H	10.9	11.4	11.3	11.7	12.1	11.0	11.5	11.4	11.9	12.3
8H 4H	10.9	11.4	11.3	11.8	12.2	11.0	11.6	11.4	11.9	12.3
6H	10.8	11.3	11.3	11.7	12.1	10.9	11.4	11.4	11.8	12.2
8H	10.8	11.2	11.2	11.6	12.0	10.9	11.3	11.4	11.7	12.1
12H	10.8	11.1	11.2	11.5	12.0	10.9	11.2	11.3	11.6	12.1
12H 4H	10.9	11.3	11.3	11.7	12.1	11.0	11.5	11.4	11.8	12.2
6H	10.8	11.2	11.2	11.6	12.0	10.9	11.3	11.3	11.7	12.1
8H	10.7	11.1	11.2	11.5	12.0	10.9	11.2	11.3	11.6	12.1
Variations with the observer position at spacings:										
S = 1.0H	+ 6.1 / - 9.0					+ 6.8 / -11.7				
1.5H	+ 8.7 / - 7.2					+ 9.5 / -10.1				
2.0H	+ 3.6 / - 3.3					+ 4.6 / - 3.9				

# HOPOO 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	80	89	83	80	88	83	79	76
0.80	96	91	87	96	91	87	95	90	87	83
1.00	101	95	92	100	95	92	98	95	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	102	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:HOPOO HPG1600  
 Temperature:25.3DEG  
 Operators:  
 Test Date:07-27-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:10.400 m  
 Remarks:

# HOPOO 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)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210
0.0	2093	2085	2088	2079	2083	2074	2077	2073	2077	2071	2073	2067	2069	2067	2073
5.0	2072	2056	2067	2050	2059	2049	2066	2059	2067	2060	2072	2061	2068	2061	2072
10.0	2002	1987	2004	1976	1991	1985	2005	1999	2019	2014	2025	2020	2023	2020	2025
15.0	1896	1876	1893	1860	1881	1876	1904	1901	1927	1923	1942	1928	1937	1928	1942
20.0	1771	1747	1762	1733	1754	1749	1778	1779	1807	1806	1826	1817	1829	1817	1826
25.0	1615	1585	1607	1554	1589	1584	1629	1632	1675	1670	1704	1686	1707	1686	1704
30.0	1336	1300	1337	1266	1317	1312	1379	1386	1447	1446	1492	1470	1491	1470	1492
35.0	861	835	878	802	880	911	997	1027	1107	1111	1159	1146	1156	1146	1159
40.0	137	117	139	114	139	123	143	167	379	398	475	408	426	408	475
45.0	38.9	26.7	37.9	26.1	38.2	25.0	49.7	49.5	80.7	68.6	90.2	66.9	74.4	66.9	90.2
50.0	28.2	18.8	28.3	18.1	27.9	20.2	32.3	24.8	36.9	27.2	37.3	26.9	36.1	26.9	37.3
55.0	16.4	8.65	17.1	8.76	17.4	11.2	20.9	14.1	23.4	16.7	24.3	15.4	22.2	15.4	24.3
60.0	6.92	1.08	6.81	0.97	6.92	1.18	8.43	2.70	10.5	4.21	11.0	3.78	9.51	3.78	11.0
65.0	5.94	0.87	5.73	0.97	5.51	0.54	5.73	0.87	6.05	0.54	6.48	1.18	6.38	1.18	6.48
70.0	5.19	0.76	4.75	0.97	5.19	0.76	4.86	0.87	4.97	0.76	5.19	0.32	5.19	0.32	5.19
75.0	4.21	0.76	4.43	0.32	4.21	0.76	4.43	0.76	4.75	0.54	4.86	0.76	4.54	0.76	4.86
80.0	3.78	0.65	4.21	0.54	3.78	0.54	3.56	0.43	3.78	0.87	4.21	0.87	3.89	0.87	4.21
85.0	2.70	1.18	3.02	0.76	2.92	1.08	3.24	0.54	3.13	0.65	3.56	1.40	3.56	1.40	3.56
90.0	2.92	1.40	2.48	1.08	3.02	1.40	3.02	1.62	2.92	1.51	3.35	1.29	3.13	1.29	3.35

Test System:HOPOO HPG1600  
 Temperature:25.3DEG  
 Operators:  
 Test Date:07-27-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:10.400 m  
 Remarks:

# HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

## LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

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

UNIT: cd

C(DEG)	225	240	255	270	285	300	315	330	345
γ (DEG)									
0.0	2071	2077	2073	2077	2074	2083	2079	2088	2085
5.0	2060	2067	2059	2066	2049	2059	2050	2067	2056
10.0	2014	2019	1999	2005	1985	1991	1976	2004	1987
15.0	1923	1927	1901	1904	1876	1881	1860	1893	1876
20.0	1806	1807	1779	1778	1749	1754	1733	1762	1747
25.0	1670	1675	1632	1629	1584	1589	1554	1607	1585
30.0	1446	1447	1386	1379	1312	1317	1266	1337	1300
35.0	1111	1107	1027	997	911	880	802	878	835
40.0	398	379	167	143	123	139	114	139	117
45.0	68.6	80.7	49.5	49.7	25.0	38.2	26.1	37.9	26.7
50.0	27.2	36.9	24.8	32.3	20.2	27.9	18.1	28.3	18.8
55.0	16.7	23.4	14.1	20.9	11.2	17.4	8.76	17.1	8.65
60.0	4.21	10.5	2.70	8.43	1.18	6.92	0.97	6.81	1.08
65.0	0.54	6.05	0.87	5.73	0.54	5.51	0.97	5.73	0.87
70.0	0.76	4.97	0.87	4.86	0.76	5.19	0.97	4.75	0.76
75.0	0.54	4.75	0.76	4.43	0.76	4.21	0.32	4.43	0.76
80.0	0.87	3.78	0.43	3.56	0.54	3.78	0.54	4.21	0.65
85.0	0.65	3.13	0.54	3.24	1.08	2.92	0.76	3.02	1.18
90.0	1.51	2.92	1.62	3.02	1.40	3.02	1.08	2.48	1.40

Test System:HOPOO HPG1600  
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