

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

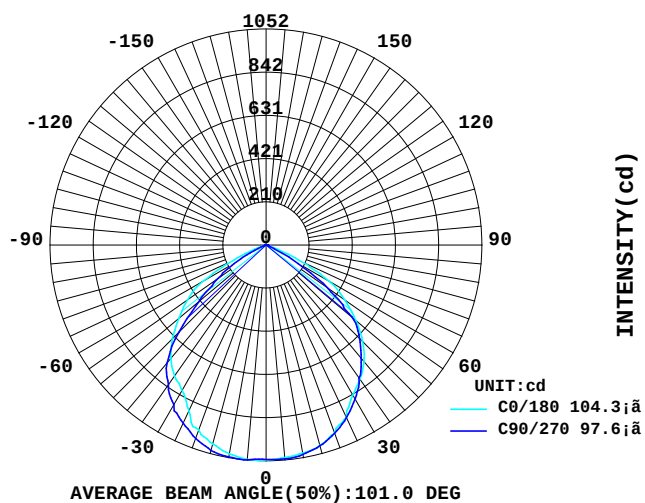
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

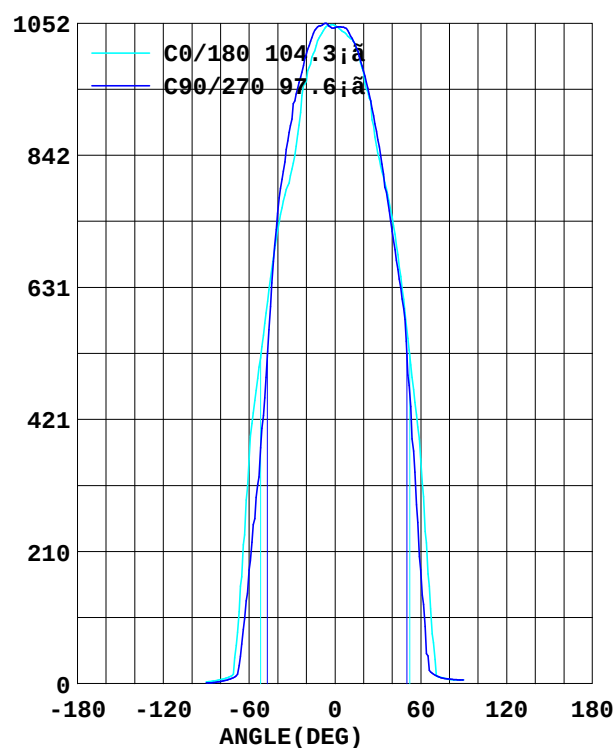
MANUFACTURER:		
Address:		
NAME: ATG 30W	TYPE: 30 W	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.: LA/YE6L-990706

DATA OF LAMP		I _{max} (cd)	1052	S/MH(C0/180)	1.17
MODEL	SMD	EFFICIENCY(%)	100.0	S/MH(C90/270)	1.28
NOMINAL POWER(W)	30	TOTAL FLUX(lm)	2295.4	Voltage(V)	231.3
RATED VOLTAGE(V)	232	EFFICIENCY(lm/W)	88.9	Current(A)	0.219
NOMINAL FLUX(lm)	2295.5	η up(%)	0.0	Power(W)	25.80
LAMPS QUANTITY	1	η down(%)	100.0	Power Factor(PF)	0.507
TEST VOLTAGE(V)	231.4	Effective Flux(lm)	2295.5	EEI	0.153

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



Test System:HOP00 HPG1600
 Temperature:25.3DEG
 Operators:
 Test Date:10-18-2020

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:5.150 m
 Remarks:

HOP00 GONIOPHOTOMETERS SYSTEM TEST REPORT

Color Temperature Data List

Report number:

MANUFACTURER:		
Address:		
NAME: ATG 30W	TYPE: 30 W	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.: LA/YE6L-990706

Test System:HOP00 HPG1600
Temperature:25.3DEG
Operators:
Test Date:10-18-2020

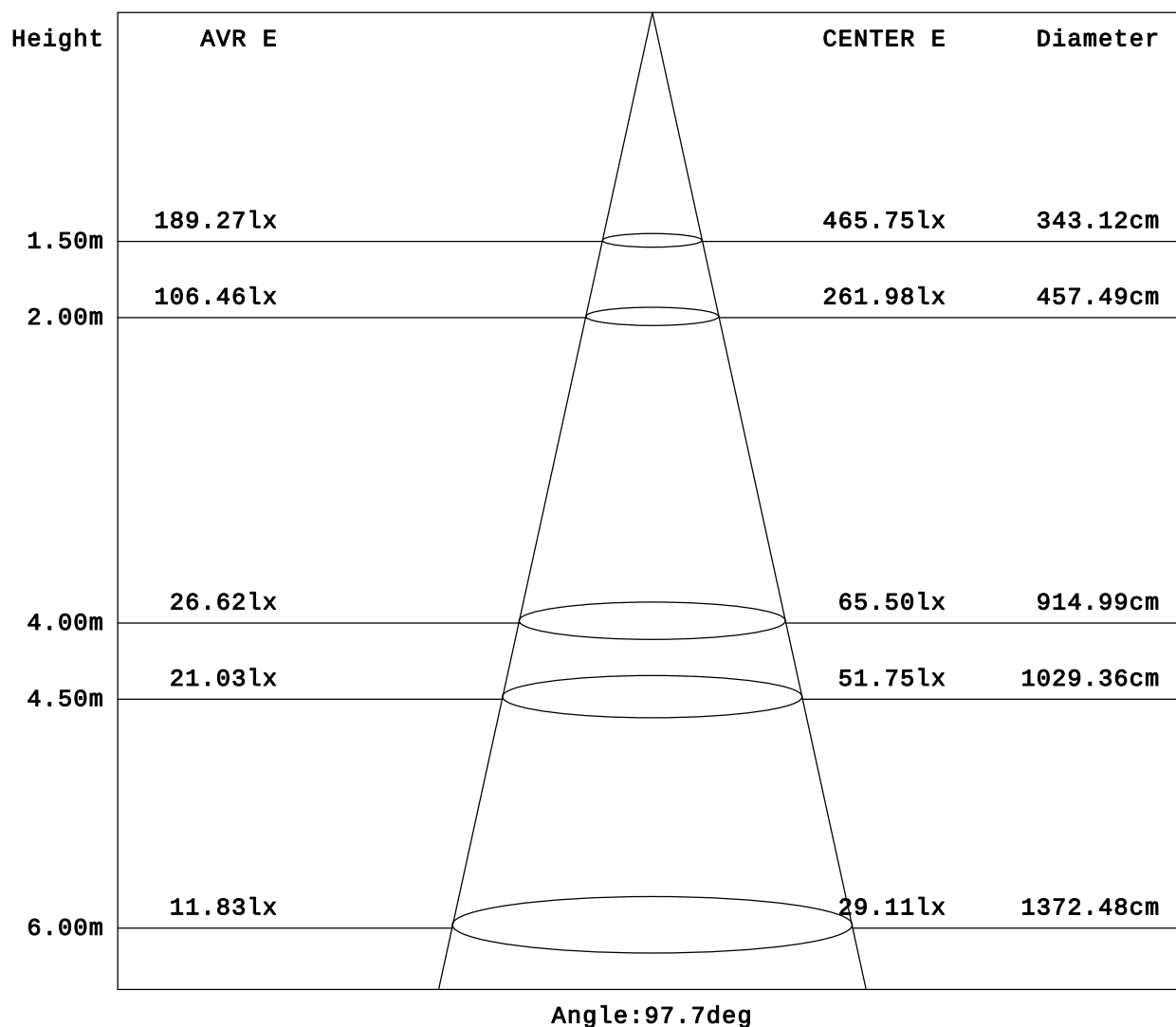
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:5.150 m
Remarks:

HOP00 GONIOPHOTOMETERS SYSTEM TEST REPORT

AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER:		
Address:		
NAME: ATG 30W	TYPE: 30 W	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.: LA/YE6L-990706



Test System:HOP00 HPG1600
Temperature:25.3DEG
Operators:
Test Date:10-18-2020

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:5.150 m
Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: ATG 30W	TYPE: 30 W	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.: LA/YE6L-990706

γ	C0	C90	C180	C270					γ	zone	total
5.0	1048	1050	1039	1046					0- 5	25.00	25.00
10.0	1032	1048	1029	1036					5- 10	74.53	99.54
15.0	1004	1036	1010	1013					10- 15	121.8	221.3
20.0	959.5	1003	975.2	976.2					15- 20	164.4	385.8
25.0	889.6	957.0	928.4	927.4					20- 25	199.8	585.6
30.0	819.5	899.2	844.6	866.5					25- 30	225.1	810.8
35.0	778.2	830.8	797.7	790.5					30- 35	244.2	1055
40.0	721.5	749.3	742.7	720.4					35- 40	256.4	1312
45.0	645.8	600.6	664.2	644.4					40- 45	254.7	1566
50.0	554.8	427.0	571.1	545.2					45- 50	235.3	1802
55.0	466.5	296.4	468.2	370.5					50- 55	199.6	2001
60.0	357.4	180.8	357.8	181.4					55- 60	155.0	2156
65.0	170.1	63.07	174.5	43.94					60- 65	91.66	2248
70.0	40.89	10.63	38.72	13.36					65- 70	32.27	2280
75.0	9.680	6.020	9.282	8.964					70- 75	6.212	2287
80.0	6.312	3.262	6.683	7.187					75- 80	3.782	2290
85.0	4.217	1.670	5.781	6.312					80- 85	2.770	2293
90.0	2.917	1.246	5.914	5.967					85- 90	2.250	2295
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	

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Test Set: 5.0deg/s C-Gamma (TYPE C)
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HOP00 GONIOPHOTOMETERS SYSTEM TEST REPORT

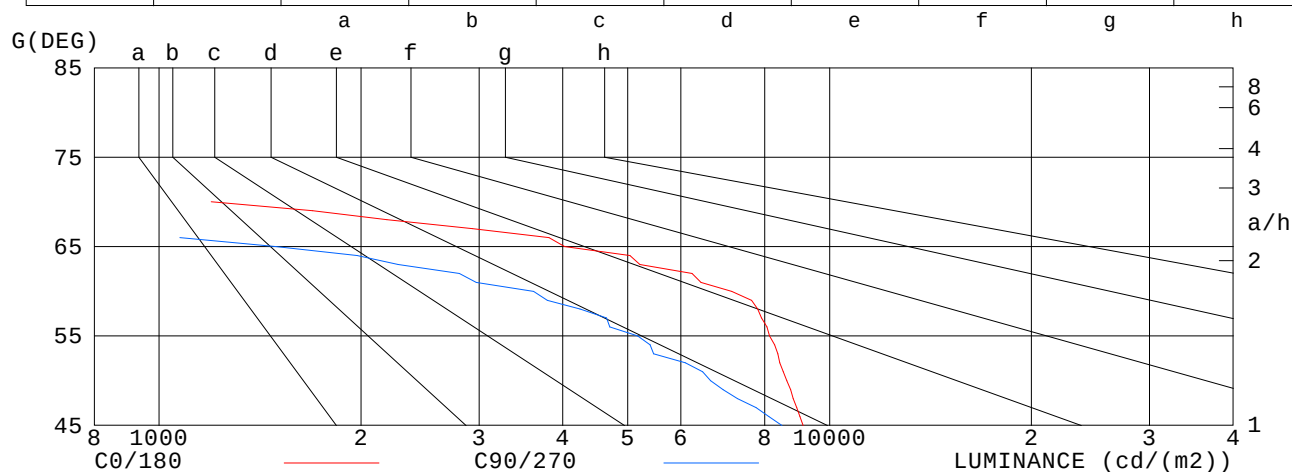
LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER:		
Address:		
NAME: ATG 30W	TYPE: 30 W	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.: LA/YE6L-990706

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	484	192
80	364	188
75	374	233
70	1196	311
65	4027	1492
60	7148	3618
55	8135	5169
50	8632	6644
45	9134	8494

Test System:HOP00 HPG1600
 Temperature:25.3DEG
 Operators:
 Test Date:10-18-2020

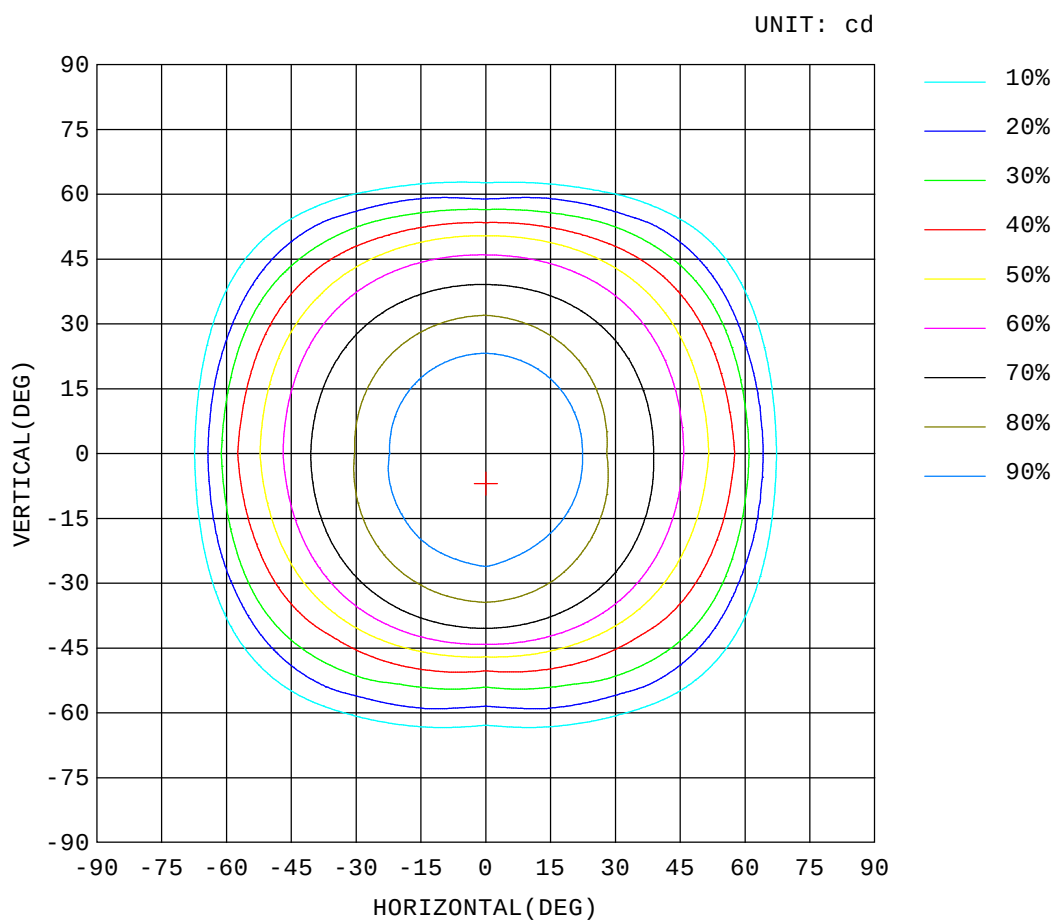
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HOP00 GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: ATG 30W	TYPE: 30 W	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.: LA/YE6L-990706



Test System:HOP00 HPG1600
Temperature:25.3DEG
Operators:
Test Date:10-18-2020

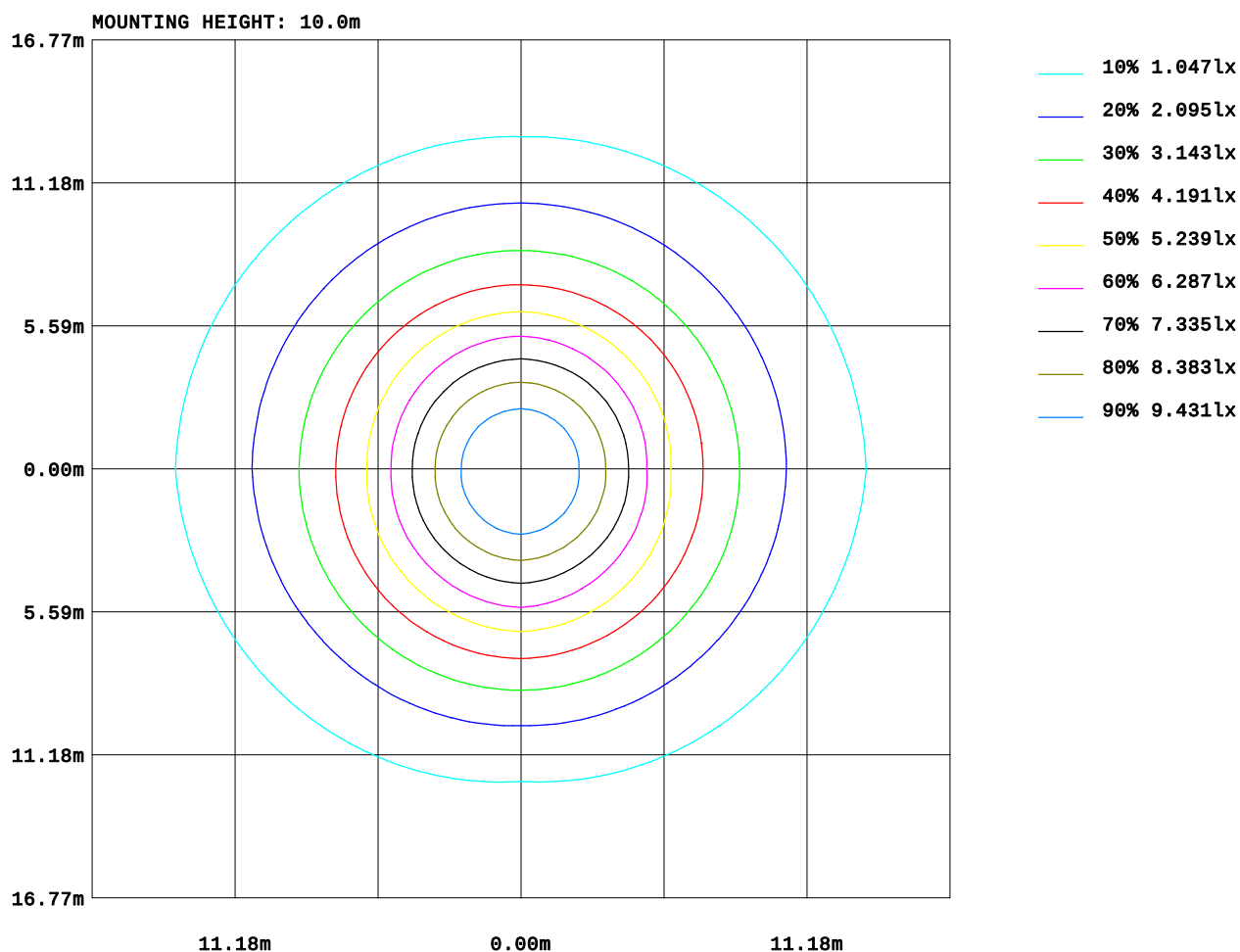
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:5.150 m
Remarks:

HOP00 GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: ATG 30W	TYPE: 30 W	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.: LA/YE6L-990706



Test System:HOP00 HPG1600
Temperature:25.3DEG
Operators:
Test Date:10-18-2020

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

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

AREA LUMINOUS FLUX

Report number:

MANUFACTURER:		
Address:		
NAME: ATG 30W	TYPE: 30 W	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.: LA/YE6L-990706

VERTICAL (DEG)	AREA FLUX DIAGRAM																		UNIT: lm		Φ t	Φ a
	0.02	0.04	0.07	0.10	0.13	0.15	0.17	0.18	0.19	0.19	0.17	0.16	0.13	0.11	0.08	0.05	0.03	0.01	1.97	1.97		
90	0.01	0.05	0.08	0.11	0.16	0.20	0.24	0.27	0.29	0.29	0.27	0.24	0.20	0.15	0.11	0.07	0.03	0.01	2.76	2.76		
80	0.01	0.05	0.09	0.15	0.32	0.81	1.44	1.96	2.02	2.02	1.94	1.43	0.81	0.33	0.16	0.09	0.04	0.01	13.7	13.7		
70	0.02	0.05	0.11	0.49	2.18	4.88	7.71	9.89	10.9	10.9	9.88	7.71	4.85	2.15	0.50	0.12	0.05	0.01	72.5	72.5		
60	0.02	0.06	0.22	2.07	6.11	10.6	14.8	17.8	19.3	19.3	17.7	14.7	10.5	6.10	2.04	0.23	0.05	0.01	142	142		
50	0.02	0.06	0.68	4.35	9.56	14.9	19.2	22.2	23.9	23.8	22.1	18.9	14.7	9.53	4.32	0.68	0.06	0.01	189	189		
40	0.02	0.07	1.36	6.25	11.9	17.5	22.0	25.6	27.7	27.7	25.3	21.6	17.1	11.7	6.24	1.34	0.07	0.01	224	224		
30	0.02	0.07	2.02	7.46	13.4	19.0	23.9	28.2	30.4	30.3	28.0	23.4	18.6	13.1	7.44	1.99	0.08	0.01	248	248		
	0.02	0.09	2.43	8.09	14.1	19.7	25.0	29.4	31.4	31.5	29.2	24.5	19.2	13.7	8.05	2.39	0.09	0.01	259	259		
	0.02	0.09	2.44	8.05	14.1	19.8	25.1	29.5	31.5	31.6	29.4	24.6	19.3	13.7	8.01	2.40	0.09	0.01	260	260		
	0.02	0.07	2.03	7.34	13.2	19.2	24.2	28.5	30.9	30.9	28.4	23.7	18.8	12.8	7.33	2.00	0.08	0.01	250	250		
-30	0.02	0.07	1.38	6.16	11.4	17.5	22.4	26.2	28.6	28.5	26.0	22.1	17.1	11.2	6.15	1.36	0.07	0.01	227	227		
-40	0.02	0.06	0.69	4.38	9.04	14.0	19.1	22.9	24.9	24.8	22.7	18.9	13.7	9.00	4.34	0.69	0.06	0.01	190	190		
-50	0.01	0.05	0.22	2.14	6.04	9.71	13.1	16.2	17.9	17.8	16.1	13.0	9.68	6.02	2.11	0.23	0.05	0.01	131	131		
-60	0.01	0.05	0.10	0.48	2.30	4.99	7.27	8.70	9.18	9.18	8.69	7.26	4.96	2.27	0.49	0.11	0.04	0.01	66.1	66.1		
-70	0.01	0.04	0.08	0.13	0.29	0.83	1.61	2.22	2.33	2.32	2.20	1.60	0.83	0.30	0.14	0.07	0.03	0.01	15.0	15.0		
-80	0.01	0.04	0.06	0.09	0.12	0.15	0.17	0.19	0.20	0.20	0.19	0.17	0.14	0.11	0.08	0.05	0.03	0.01	2.01	2.01		
-90	0.01	0.04	0.06	0.07	0.08	0.08	0.08	0.07	0.06	0.06	0.07	0.07	0.06	0.06	0.05	0.04	0.02	0.01	0.99	0.99		
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL(DEG)				20	30	40	50	60	70	80	90		
Φ t	0.27	1.04	14.1	57.9	115	174	228	271	292	292	269	225	171	113	57.6	13.9	0.99	0.19	2295			
Φ a	0.27	1.04	14.1	57.9	115	174	228	271	292	292	269	225	171	113	57.6	13.9	0.99	0.19		2295		

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 Remarks:

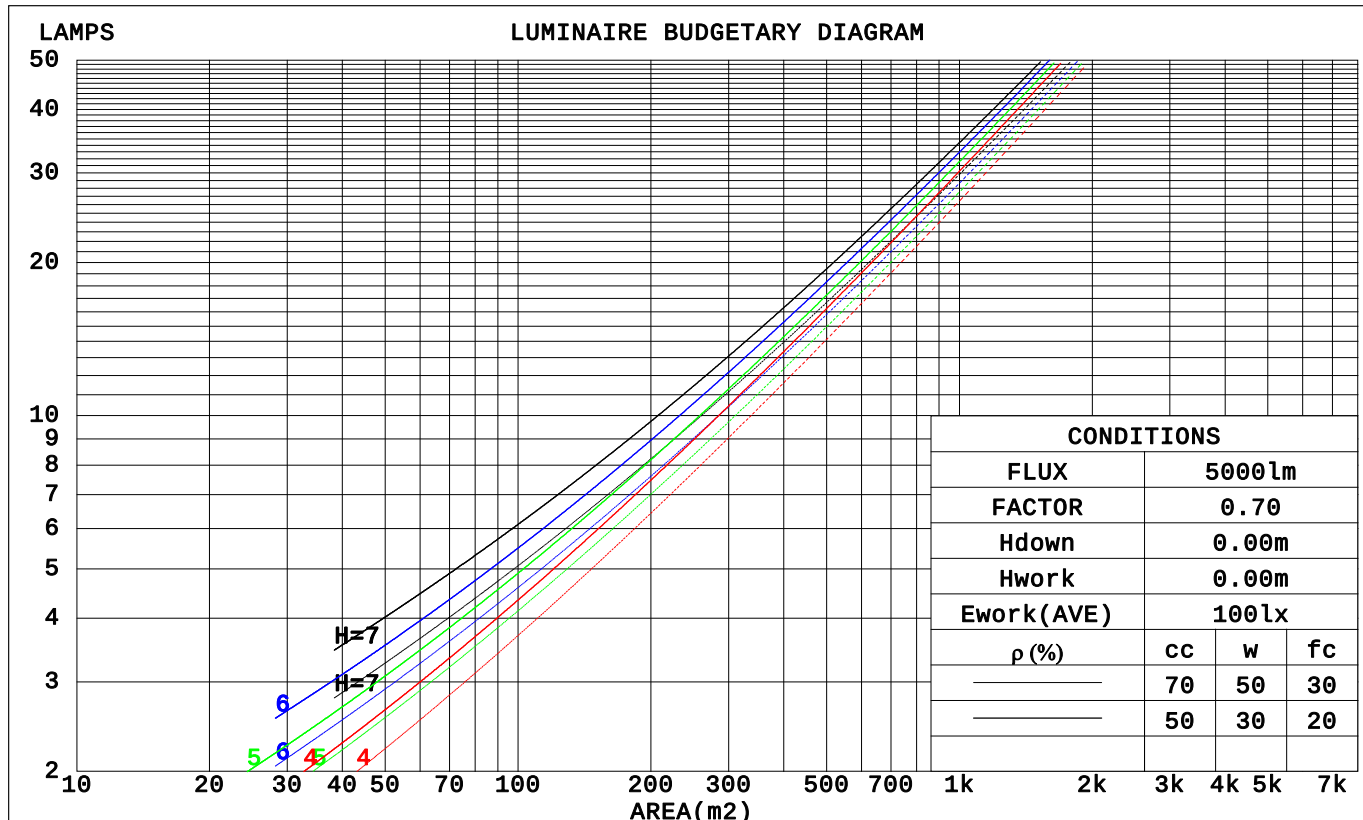
HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: ATG 30W	TYPE: 30 W	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.: LA/YE6L-990706

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:HOP00 HPG1600
 Temperature:25.3DEG
 Operators:
 Test Date:10-18-2020

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HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

WEC AND CCEC

Report number:

MANUFACTURER:														
Address:														
NAME: ATG 30W							TYPE: 30 W				WEIGHT:			
SPECIFICATION:							DIMENSION:				SERIAL No.: LA/YE6L-990706			

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	.239	.136	.043	.232	.132	.042	.219	.126	.040	.207	.120	.038	.196	.114	.037	
2.0	.235	.129	.040	.229	.126	.039	.218	.121	.038	.208	.117	.036	.198	.112	.035	
3.0	.226	.120	.036	.220	.118	.036	.211	.114	.035	.202	.110	.034	.193	.107	.033	
4.0	.214	.111	.033	.210	.110	.032	.201	.107	.032	.193	.104	.031	.185	.101	.031	
5.0	.203	.103	.030	.199	.102	.030	.191	.099	.029	.184	.097	.029	.177	.095	.028	
6.0	.191	.096	.027	.188	.095	.027	.181	.093	.027	.174	.091	.027	.168	.089	.026	
7.0	.181	.089	.025	.177	.088	.025	.171	.087	.025	.165	.085	.025	.160	.083	.024	
8.0	.171	.083	.023	.168	.083	.023	.162	.081	.023	.157	.080	.023	.152	.078	.023	
9.0	.161	.078	.022	.159	.077	.022	.154	.076	.022	.149	.075	.021	.145	.073	.021	
10.0	.153	.073	.020	.151	.073	.020	.146	.072	.020	.142	.070	.020	.138	.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	.140	.150	.135	.120	.103	.093	.083	.059	.054	.048	.019	.017	.016	
2.0	.165	.132	.105	.141	.114	.091	.097	.079	.063	.056	.046	.037	.018	.015	.012	
3.0	.156	.114	.081	.134	.098	.070	.092	.068	.049	.053	.040	.029	.017	.013	.009	
4.0	.148	.100	.064	.127	.087	.055	.087	.060	.039	.051	.035	.023	.016	.012	.008	
5.0	.141	.089	.051	.121	.077	.045	.084	.054	.032	.048	.032	.019	.016	.010	.006	
6.0	.135	.081	.042	.116	.070	.037	.080	.049	.026	.046	.029	.016	.015	.009	.005	
7.0	.129	.074	.036	.111	.064	.031	.076	.045	.022	.044	.026	.013	.014	.009	.004	
8.0	.123	.068	.031	.106	.059	.027	.073	.041	.019	.043	.024	.011	.014	.008	.004	
9.0	.117	.063	.027	.101	.055	.023	.070	.039	.017	.041	.023	.010	.013	.007	.003	
10.0	.112	.059	.024	.097	.051	.021	.067	.036	.015	.039	.021	.009	.013	.007	.003	

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Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:5.150 m
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

Uncorrected UGR Table

Report number:

MANUFACTURER:										
Address:										
NAME: ATG 30W					TYPE: 30 W			WEIGHT:		
SPECIFICATION:					DIMENSION:			SERIAL No.: LA/YE6L-990706		
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	19.8	21.1	20.0	21.3	21.5	18.3	19.7	18.6	19.9	20.1
3H	19.9	21.1	20.1	21.3	21.5	18.2	19.4	18.5	19.6	19.9
4H	19.8	20.9	20.1	21.2	21.4	18.1	19.3	18.4	19.5	19.7
6H	19.7	20.7	20.0	21.0	21.3	18.0	19.1	18.3	19.3	19.6
8H	19.6	20.7	19.9	20.9	21.2	18.0	19.0	18.3	19.3	19.5
12H	19.6	20.6	19.9	20.8	21.1	17.9	18.9	18.2	19.2	19.5
4H 2H	19.8	21.0	20.1	21.2	21.4	18.5	19.7	18.8	19.9	20.2
3H	19.9	20.9	20.2	21.2	21.5	18.4	19.4	18.8	19.7	20.0
4H	19.8	20.7	20.2	21.0	21.3	18.3	19.2	18.7	19.5	19.9
6H	19.7	20.5	20.1	20.8	21.2	18.2	19.0	18.6	19.4	19.7
8H	19.7	20.4	20.1	20.8	21.1	18.2	18.9	18.6	19.3	19.7
12H	19.6	20.3	20.0	20.7	21.1	18.1	18.8	18.6	19.2	19.6
8H 4H	19.7	20.4	20.1	20.7	21.1	18.2	18.9	18.6	19.3	19.7
6H	19.6	20.2	20.0	20.6	21.0	18.1	18.7	18.6	19.1	19.5
8H	19.5	20.1	20.0	20.5	20.9	18.1	18.6	18.5	19.0	19.5
12H	19.5	19.9	20.0	20.4	20.9	18.0	18.5	18.5	18.9	19.4
12H 4H	19.6	20.3	20.0	20.7	21.1	18.2	18.8	18.6	19.2	19.6
6H	19.5	20.1	20.0	20.5	20.9	18.1	18.6	18.5	19.0	19.5
8H	19.5	19.9	20.0	20.4	20.9	18.0	18.5	18.5	18.9	19.4
Variations with the observer position at spacings:										
S = 1.0H	+ 0.9 / - 0.7					+ 1.3 / - 1.7				
1.5H	+ 0.5 / - 1.0					+ 0.6 / - 0.7				
2.0H	+ 1.2 / - 2.3					+ 1.9 / - 3.9				

CIE Pub.117 Corrected 2295 lm Total Lamp Luminous Flux.(8log(F/F0) = 2.9)

Test System:HOP00 HPG1600
 Temperature:25.3DEG
 Operators:
 Test Date:10-18-2020

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:5.150 m
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

UTILIZATION FACTORS TABLE

Report number:

MANUFACTURER:		
Address:		
NAME: ATG 30W	TYPE: 30 W	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.: LA/YE6L-990706

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) $k(RI) \times RCR = 5$									
$k = 0.60$	64	53	47	63	53	47	62	53	47	41
0.80	75	64	58	74	64	58	72	63	58	51
1.00	84	74	68	82	74	68	80	75	67	61
1.25	90	82	76	89	81	76	87	80	75	69
1.50	95	87	82	93	86	81	91	85	80	74
2.00	101	94	89	99	93	88	96	91	87	80
2.50	104	98	93	102	96	92	98	94	90	83
3.00	107	101	97	105	100	96	101	97	94	86
4.00	110	105	102	107	103	100	103	100	97	89
5.00	111	107	104	109	106	103	105	102	100	91
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

Test System:HOP00 HPG1600
 Temperature:25.3DEG
 Operators:
 Test Date:10-18-2020

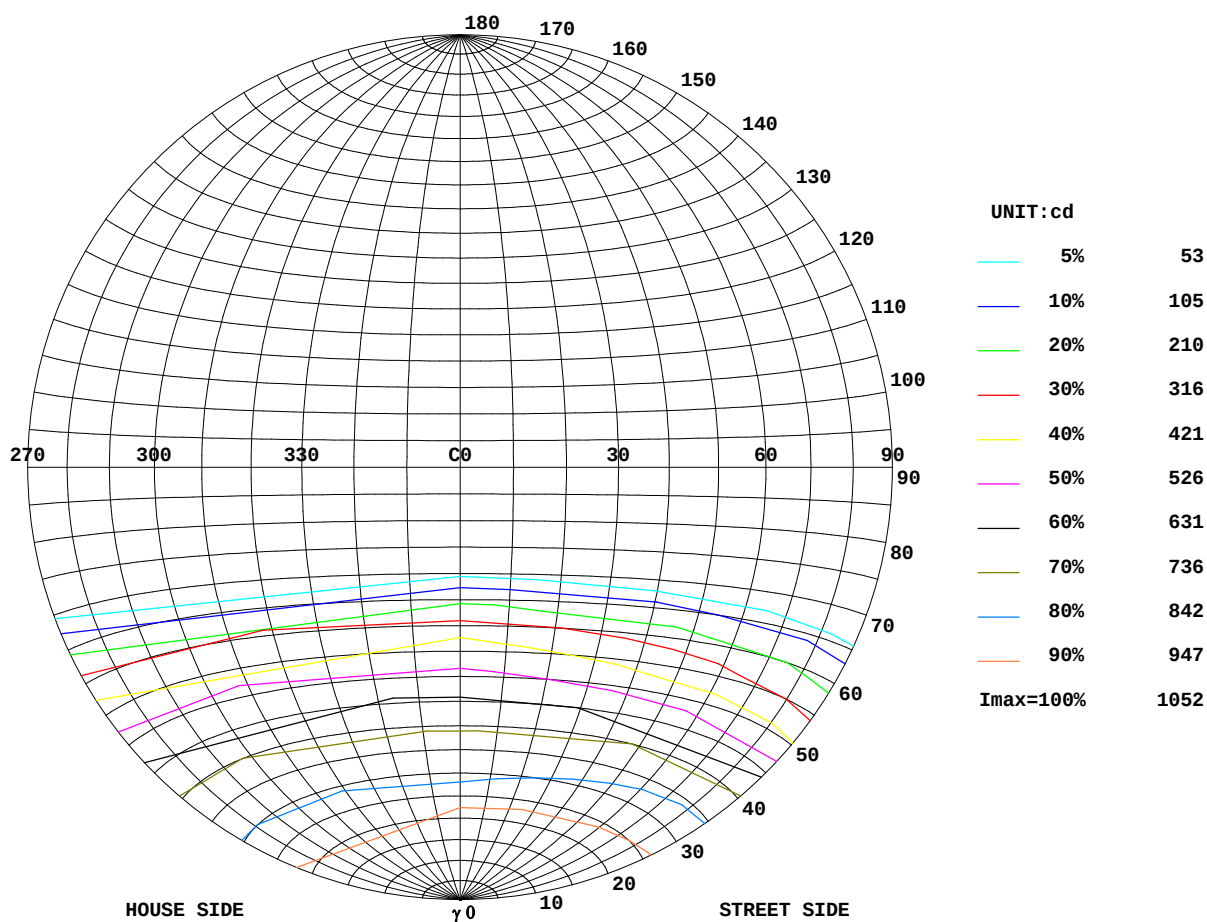
Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:5.150 m
 Remarks:

HOP00 GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: ATG 30W	TYPE: 30 W	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.: LA/YE6L-990706



Test System:HOP00 HPG1600
Temperature:25.3DEG
Operators:
Test Date:10-18-2020

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:5.150 m
Remarks:

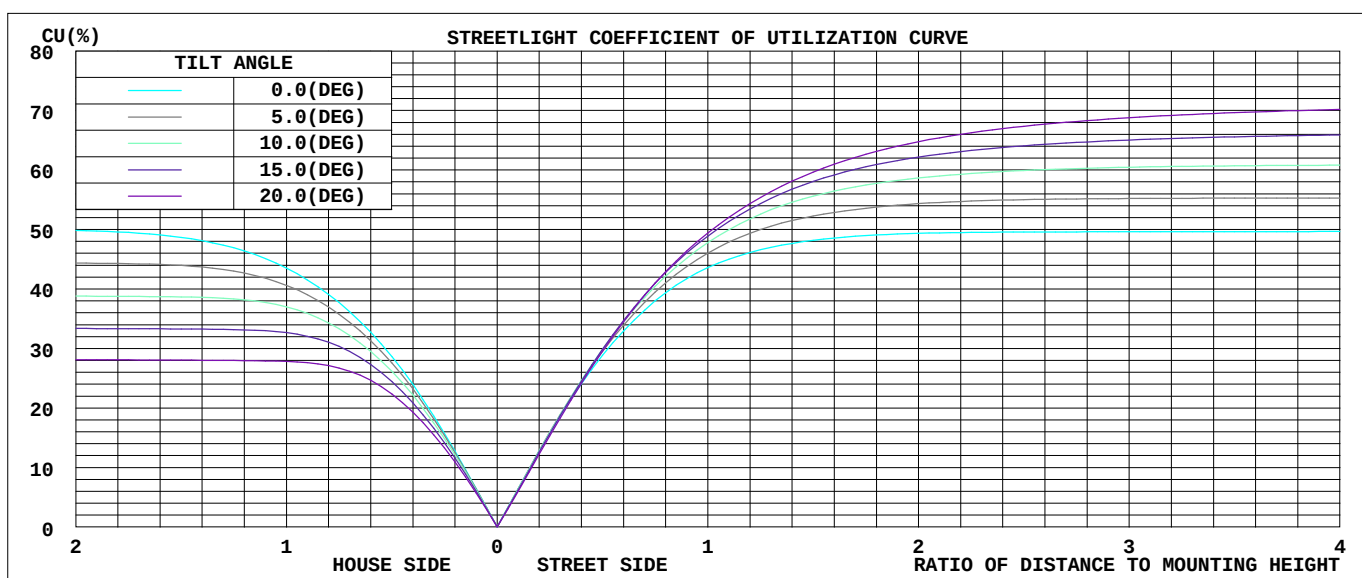
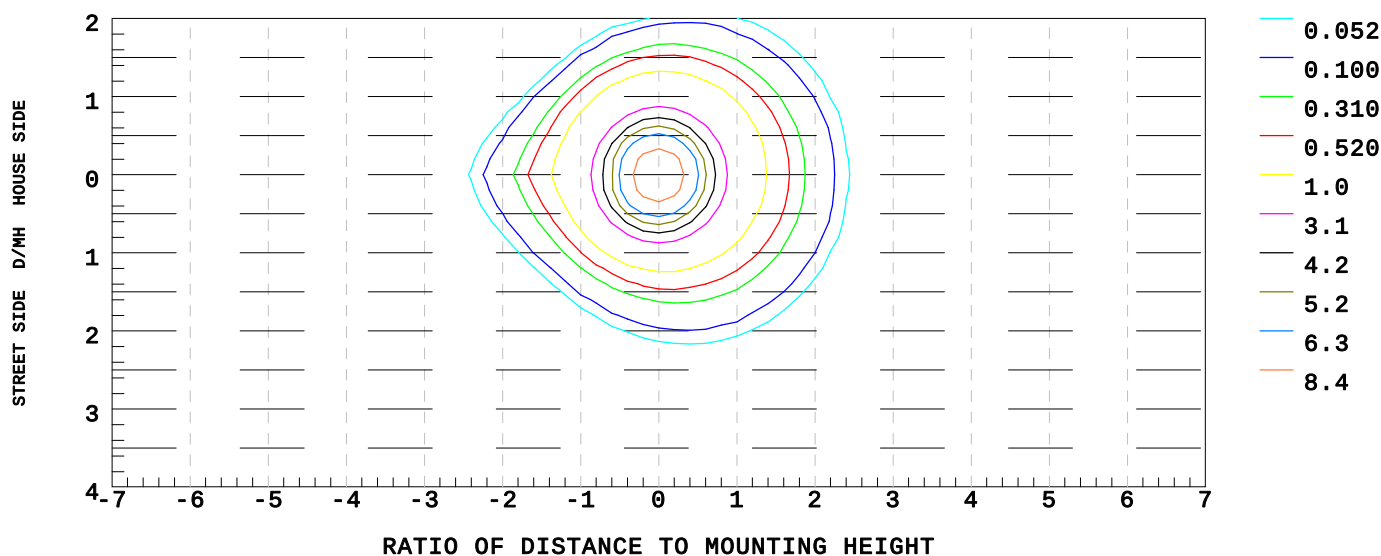
HOP00 GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: ATG 30W	TYPE: 30 W	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.: LA/YE6L-990706

ILLUMINANCE AT MH=10 m, Enadir = 10.48 lx



Test System:HOP00 HPG1600
Temperature:25.3DEG
Operators:
Test Date:10-18-2020

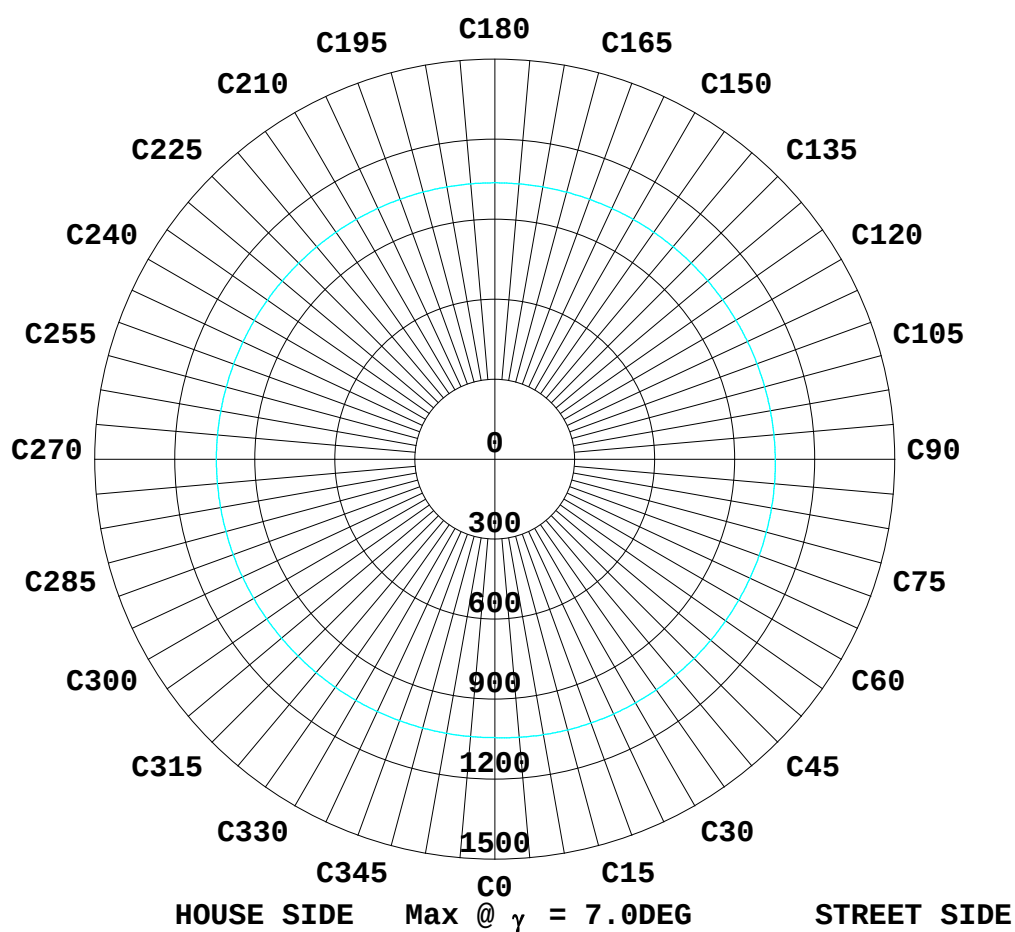
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:5.150 m
Remarks:

HOP00 GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: ATG 30W	TYPE: 30 W	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.: LA/YE6L-990706



Test System:HOP00 HPG1600
Temperature:25.3DEG
Operators:
Test Date:10-18-2020

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:5.150 m
Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER:		
Address:		
NAME: ATG 30W	TYPE: 30 W	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.: LA/YE6L-990706

UNIT: cd

γ (DEG)	C (DEG)			
	0	90	180	270
0.0	1048	1044	1048	1044
5.0	1048	1050	1039	1046
10.0	1032	1048	1029	1036
15.0	1004	1036	1010	1013
20.0	960	1003	975	976
25.0	890	957	928	927
30.0	820	899	845	867
35.0	778	831	798	791
40.0	722	749	743	720
45.0	646	601	664	644
50.0	555	427	571	545
55.0	467	296	468	371
60.0	357	181	358	181
65.0	170	63.0	175	43.9
70.0	40.8	10.6	38.7	13.3
75.0	9.68	6.02	9.28	8.96
80.0	6.31	3.26	6.68	7.18
85.0	4.21	1.67	5.78	6.31
90.0	2.91	1.24	5.91	5.96

Test System:HOP00 HPG1600
Temperature:25.3DEG
Operators:
Test Date:10-18-2020

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:5.150 m
Remarks: