

# HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

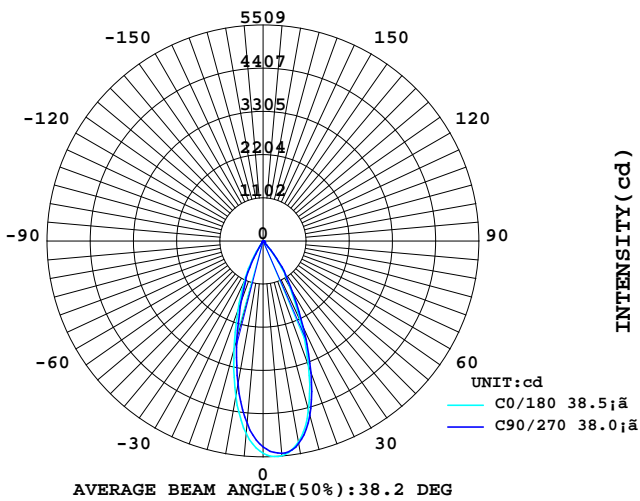
## LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

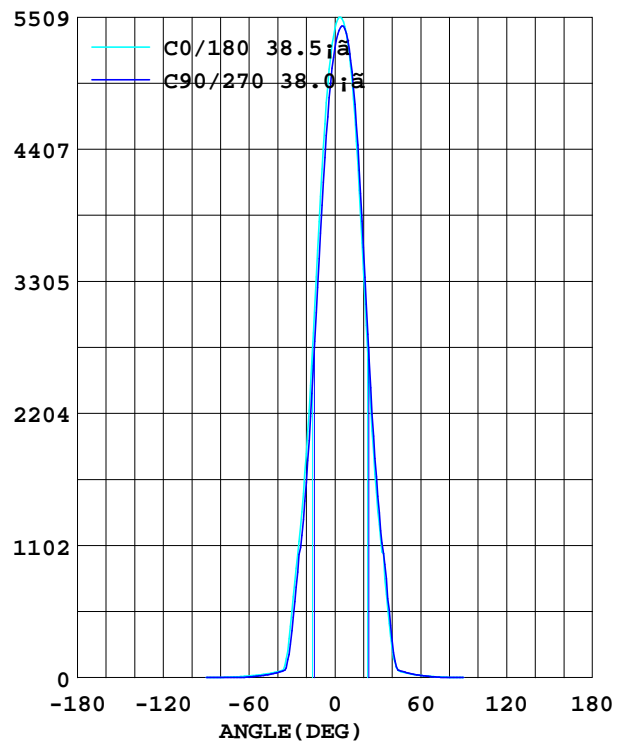
MANUFACTURER:		
Address:		
NAME: LOGAN	TYPE: 30 W	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.: LA/YE6L-990706

DATA OF LAMP		I <sub>max</sub> (cd)	5509	S/MH(C0/180)	0.52
MODEL	SMD	EFFICIENCY(%)	100.0	S/MH(C90/270)	0.49
NOMINAL POWER(W)	30	TOTAL FLUX(lm)	2632.8	Voltage(V)	231.3
RATED VOLTAGE(V)	232	EFFICIENCY(lm/W)	81.4	Current(A)	0.264
NOMINAL FLUX(lm)	2632.9	η up(%)	0.0	Power(W)	32.34
LAMPS QUANTITY	1	η down(%)	100.0	Power Factor(PF)	0.527
TEST VOLTAGE(V)	231.4	Effective Flux(lm)	2632.9	EEI	0.167

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



Test System:HOPOO 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

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## Color Temperature Data List

Report number:

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

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

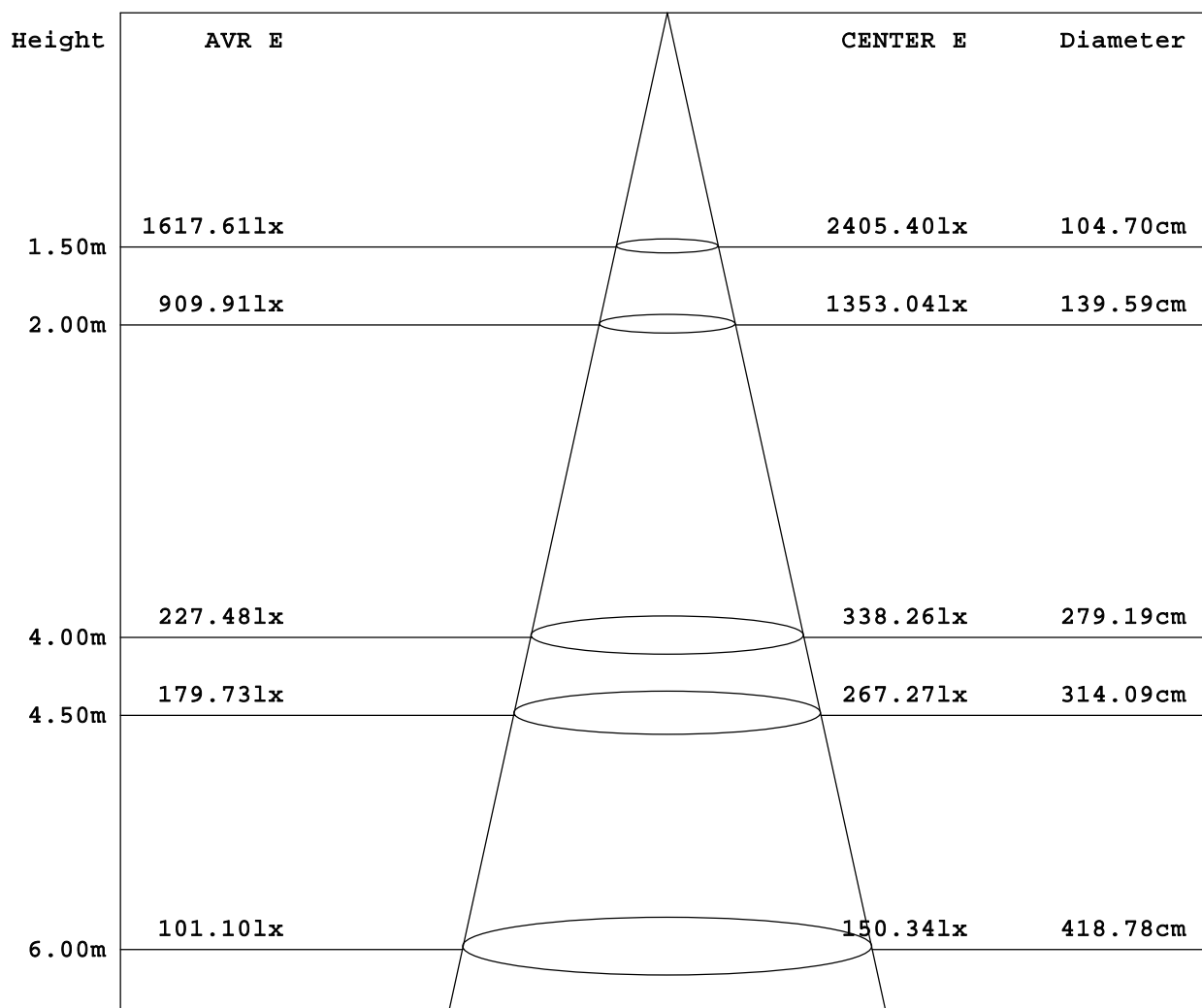
Test Set: 5.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:5.150 m  
Remarks:

# HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

## AVERAGE AND CENTER E Figure

Report number:

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



Angle: 38.5deg

Test System: HOPOO 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: LOGAN	TYPE: 30 W	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.: LA/YE6L-990706

$\gamma$	C0	C90	C180	C270				$\gamma$	zone	total
5.0	4936	4677	5498	5435				0- 5	125.1	125.1
10.0	4016	3707	5210	5245				5- 10	346.4	471.6
15.0	2875	2600	4473	4609				10- 15	484.4	956.0
20.0	1868	1625	3407	3591				15- 20	512.0	1468
25.0	1137	1028	2266	2418				20- 25	446.1	1914
30.0	557.0	390.4	1391	1513				25- 30	331.9	2246
35.0	102.4	63.97	823.6	943.6				30- 35	204.5	2451
40.0	48.45	42.48	243.3	306.1				35- 40	103.6	2555
45.0	36.62	28.45	53.94	59.48				40- 45	30.52	2585
50.0	26.92	17.98	37.60	42.54				45- 50	15.08	2600
55.0	19.73	11.21	26.31	28.51				50- 55	11.34	2611
60.0	14.13	5.808	18.16	17.98				55- 60	8.092	2620
65.0	9.521	1.113	12.43	11.35				60- 65	5.412	2625
70.0	5.861	1.034	7.479	5.967				65- 70	3.406	2628
75.0	3.660	0.530	5.039	1.909				70- 75	2.004	2630
80.0	1.591	0.477	2.227	1.777				75- 80	1.148	2632
85.0	1.405	0.477	1.140	1.670				80- 85	0.695	2632
90.0	1.273	0.557	1.432	1.564				85- 90	0.647	2633
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:  
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Test Set: 5.0deg/s C-Gamma (TYPE C)  
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 Test Distance:5.150 m  
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# HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

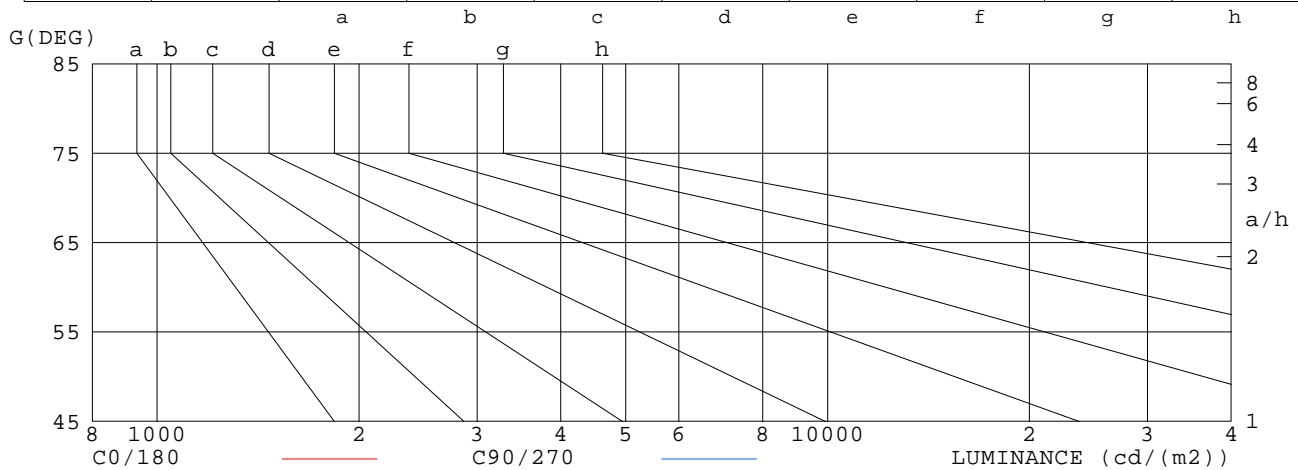
## LUMINANCE LIMITATION CURVES

Report number:

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

### LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
		2000	1000	500	<=300				
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	161	55
80	92	27
75	141	20
70	171	30
65	225	26
60	283	116
55	344	196
50	419	280
45	518	402

Test System:HOPOO 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:

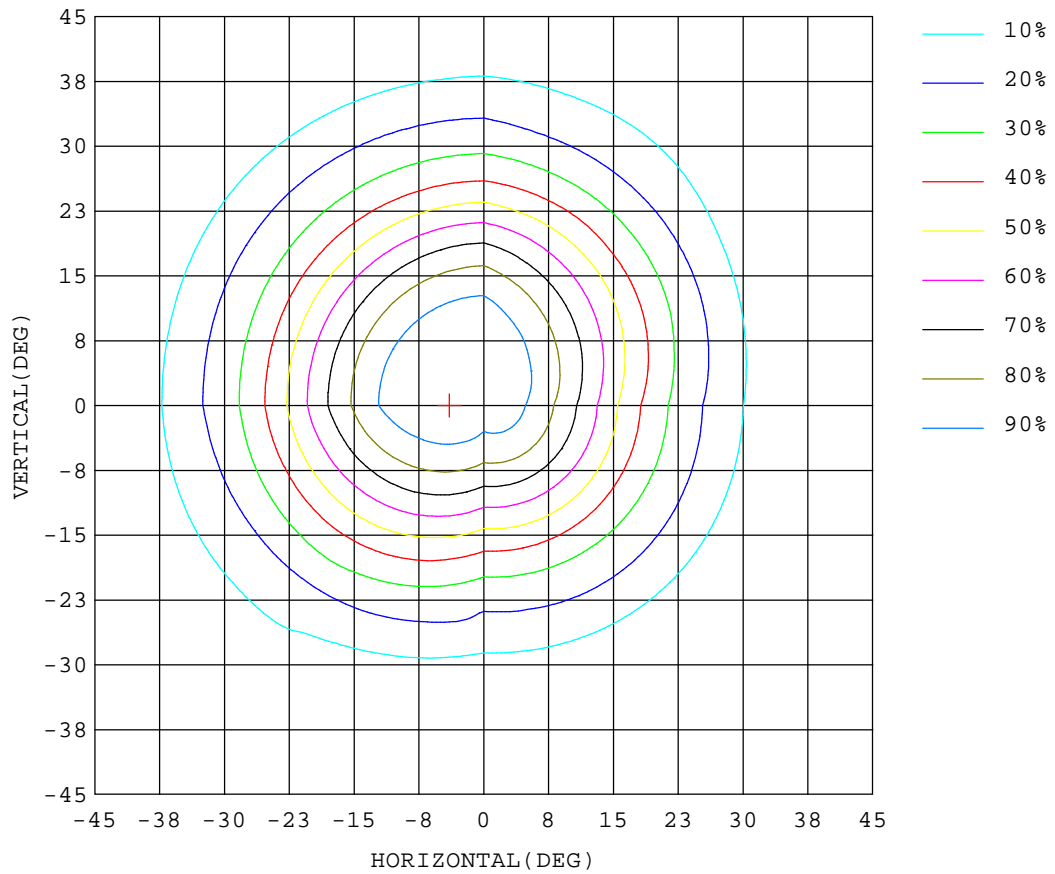
# HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

## ISOCANDELA DIAGRAM

Report number:

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

UNIT: cd



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

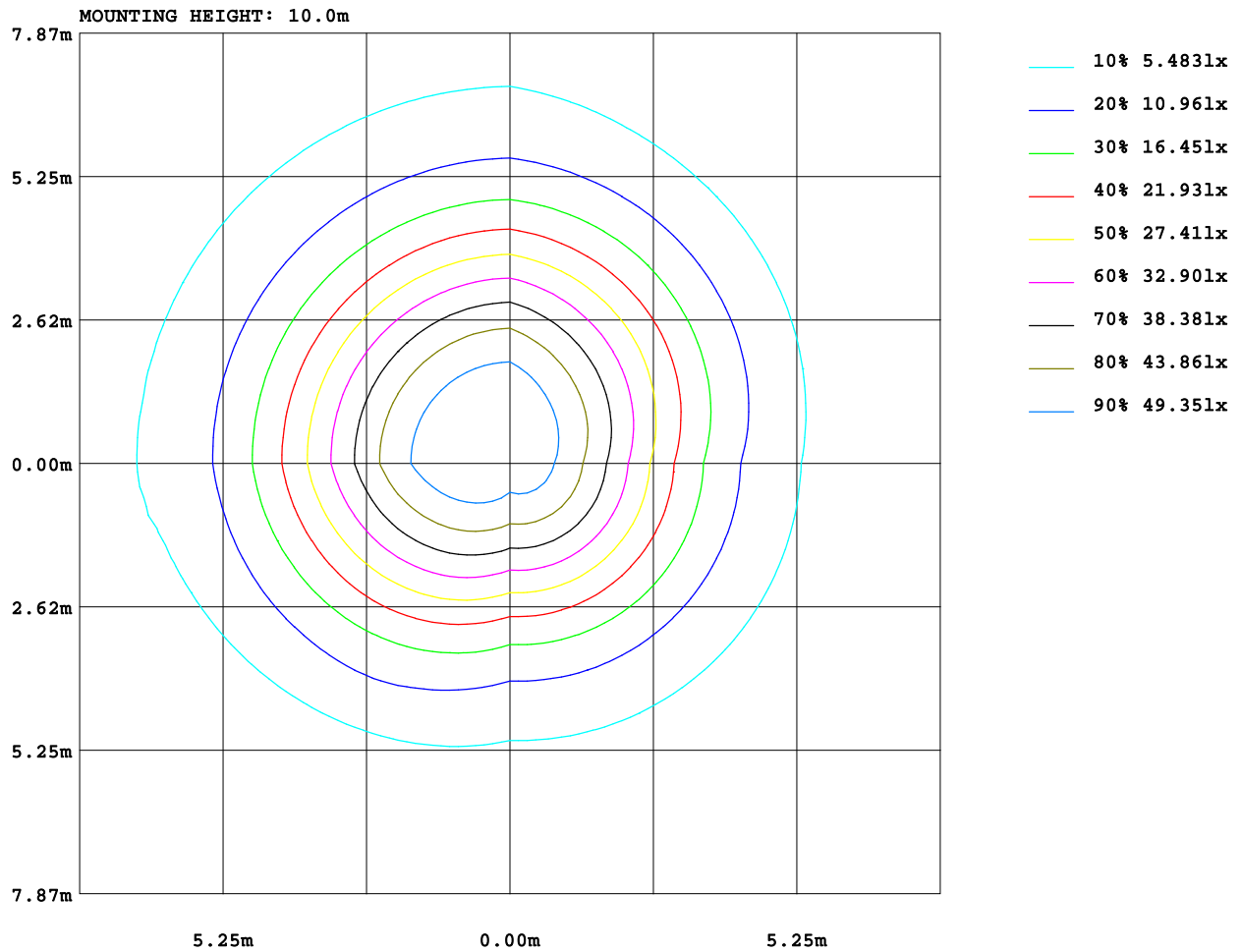
Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:5.150 m  
 Remarks:

# HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

## ISOLUX DIAGRAM

Report number:

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



Test System:HOPOO 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

## AREA LUMINOUS FLUX

Report number:

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

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.13	0.18	0.23	0.29	0.35	0.43	0.61	0.83	1.00	0.99	0.78	0.55	0.39	0.32	0.26	0.20	0.15	0.11	7.79	7.79
45	0.16	0.22	0.29	0.40	0.78	1.70	2.90	3.96	4.59	4.44	3.56	2.44	1.35	0.62	0.34	0.25	0.19	0.14	28.3	28.3
40	0.20	0.27	0.42	1.17	2.96	5.18	7.02	8.27	8.97	8.64	7.34	5.64	3.78	2.02	0.80	0.33	0.23	0.16	63.4	63.4
35	0.23	0.35	1.09	3.32	6.21	8.67	11.0	13.1	14.4	14.0	11.9	9.24	6.36	3.86	1.89	0.66	0.27	0.19	107	107
30	0.27	0.65	2.59	5.89	8.99	12.6	16.7	20.2	22.3	21.6	18.2	14.0	9.79	5.89	3.00	1.23	0.39	0.21	165	165
25	0.32	1.29	4.36	7.92	12.1	17.6	23.5	28.2	30.8	29.7	25.1	19.2	13.3	8.30	4.17	1.70	0.58	0.23	229	229
20	0.44	2.10	5.80	9.70	15.4	22.7	29.7	34.8	37.3	35.9	30.7	23.7	16.3	10.2	5.38	2.01	0.69	0.26	284	284
15	0.57	2.77	6.71	11.2	18.1	26.5	34.0	38.8	40.7	39.2	34.0	26.3	18.0	11.1	6.09	2.18	0.65	0.27	318	318
10	0.66	3.12	7.16	12.0	19.6	28.4	36.0	40.4	41.4	39.8	34.7	26.5	17.8	10.9	6.05	2.07	0.48	0.25	328	328
5	0.64	2.99	6.88	11.6	18.8	27.2	34.3	38.5	39.3	37.6	32.8	24.8	16.5	10.1	5.60	1.79	0.36	0.24	310	310
0	0.52	2.45	5.91	9.97	16.0	22.9	29.0	32.7	33.2	31.7	27.9	21.3	14.4	8.99	4.83	1.38	0.33	0.23	264	264
-5	0.39	1.71	4.62	7.80	12.4	17.6	22.3	25.1	25.1	23.7	20.9	16.2	11.3	7.22	3.48	0.84	0.30	0.21	202	202
-10	0.29	0.99	3.10	5.62	8.76	12.4	15.4	17.2	16.8	15.7	14.1	11.2	8.12	4.92	1.86	0.45	0.27	0.19	138	138
-15	0.23	0.50	1.67	3.59	5.44	7.78	9.89	10.8	10.3	9.66	8.85	7.22	4.89	2.34	0.71	0.32	0.24	0.17	84.7	84.7
-20	0.19	0.28	0.70	1.77	3.04	4.08	5.09	5.77	5.66	5.23	4.57	3.28	1.77	0.70	0.36	0.27	0.20	0.14	43.1	43.1
-25	0.16	0.21	0.31	0.65	1.28	1.86	2.14	2.08	1.72	1.39	1.15	0.77	0.46	0.34	0.28	0.22	0.16	0.12	15.3	15.3
-30	0.12	0.16	0.21	0.28	0.42	0.65	0.81	0.77	0.55	0.39	0.37	0.34	0.31	0.26	0.21	0.17	0.13	0.10	6.26	6.26
-35	0.10	0.13	0.16	0.19	0.22	0.26	0.30	0.31	0.29	0.27	0.26	0.24	0.22	0.19	0.16	0.13	0.10	0.08	3.59	3.59
-40	0.10	0.13	0.16	0.19	0.22	0.26	0.30	0.31	0.29	0.27	0.26	0.24	0.22	0.19	0.16	0.13	0.10	0.08	3.59	3.59
-45	0.10	0.13	0.16	0.19	0.22	0.26	0.30	0.31	0.29	0.27	0.26	0.24	0.22	0.19	0.16	0.13	0.10	0.08	3.59	3.59
	-45	-40	-35	-30	-25	-20	-15	-10	HORIZONTAL (DEG)	10	15	20	25	30	35	40	45			
Φ t	5.61	20.4	52.2	93.5	151	219	281	322	335	320	278	213	145	88.4	45.5	16.2	5.73	3.29	2633	
Φ a	5.61	20.4	52.2	93.5	151	219	281	322	335	320	278	213	145	88.4	45.5	16.2	5.73	3.29		2633

Test System:HOPOO 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:



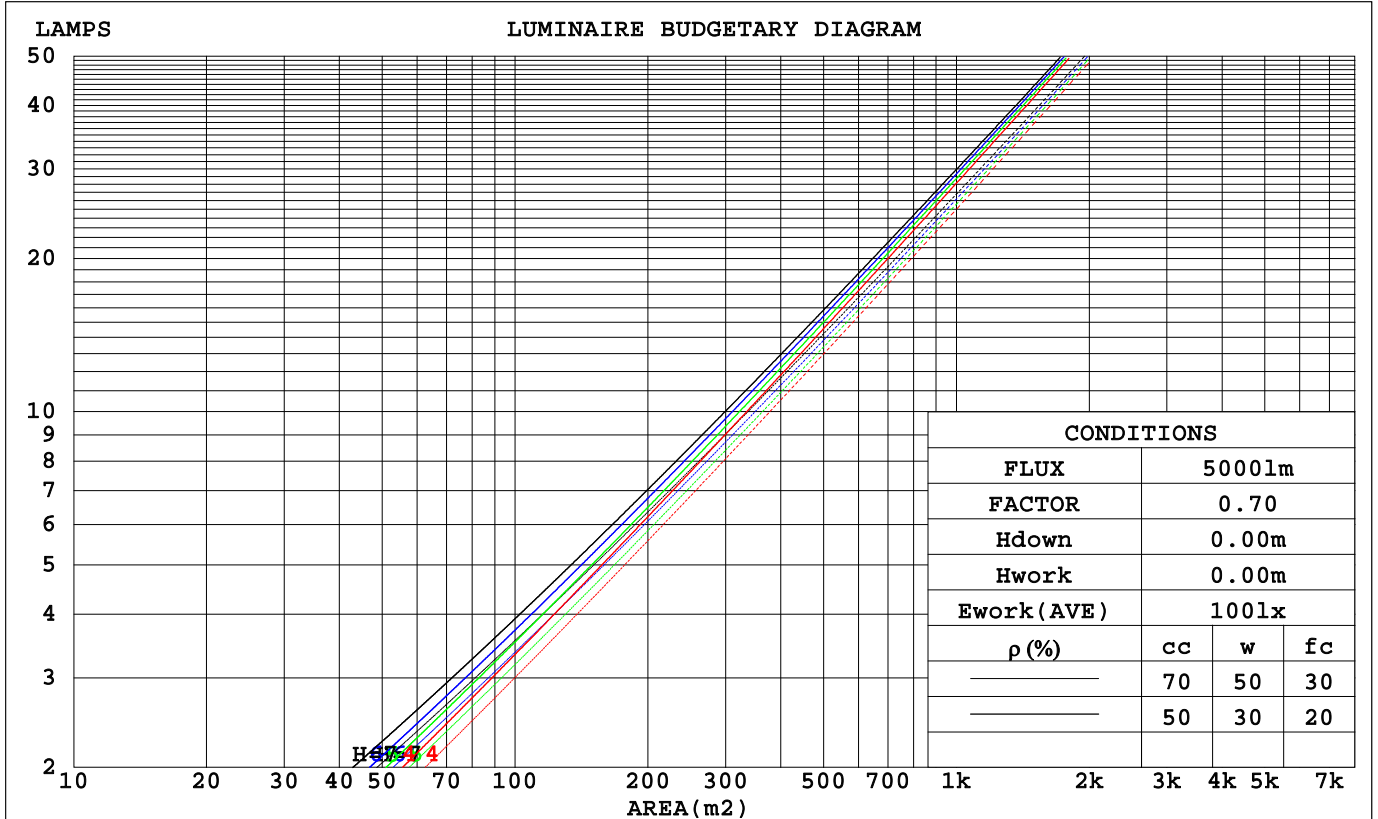
HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

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

ρcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	
ρw																
ρfc																
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	.00
1.0	1.12	1.09	1.07	1.10	1.08	1.06	1.05	1.04	1.02	1.02	1.01	.99	.98	.97	.97	.95
2.0	1.05	1.01	.98	1.03	1.00	.97	1.00	.98	.95	.97	.95	.93	.95	.93	.91	.90
3.0	.99	.95	.91	.98	.94	.91	.95	.92	.89	.93	.90	.88	.91	.88	.86	.85
4.0	.94	.89	.85	.93	.88	.85	.91	.87	.84	.89	.85	.83	.87	.84	.82	.81
5.0	.89	.84	.80	.88	.83	.80	.86	.82	.79	.85	.81	.78	.83	.80	.78	.76
6.0	.85	.79	.76	.84	.79	.75	.82	.78	.75	.81	.77	.74	.80	.77	.74	.73
7.0	.81	.75	.72	.80	.75	.72	.79	.74	.71	.78	.74	.71	.77	.73	.70	.69
8.0	.77	.72	.68	.76	.71	.68	.75	.71	.68	.74	.70	.68	.74	.70	.67	.66
9.0	.74	.68	.65	.73	.68	.65	.72	.68	.65	.71	.67	.64	.71	.67	.64	.63
10.0	.70	.65	.62	.70	.65	.62	.69	.65	.62	.69	.65	.62	.68	.64	.62	.60



Test System:HOPOO 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

WEC AND CCEC

Report number:

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

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.161	.091	.029	.154	.088	.028	.141	.081	.026	.130	.075	.024	.119	.069	.022	
2.0	.152	.083	.025	.146	.080	.025	.136	.075	.023	.126	.071	.022	.117	.066	.021	
3.0	.143	.076	.023	.139	.074	.022	.130	.070	.021	.122	.067	.020	.114	.063	.020	
4.0	.136	.071	.021	.132	.069	.020	.124	.066	.020	.117	.063	.019	.111	.060	.018	
5.0	.129	.066	.019	.126	.064	.019	.119	.062	.018	.113	.060	.018	.107	.057	.017	
6.0	.123	.062	.018	.120	.061	.017	.114	.059	.017	.109	.057	.017	.104	.055	.016	
7.0	.117	.058	.016	.115	.057	.016	.110	.056	.016	.105	.054	.016	.101	.052	.015	
8.0	.112	.055	.015	.110	.054	.015	.106	.053	.015	.101	.051	.015	.098	.050	.015	
9.0	.108	.052	.015	.106	.052	.014	.102	.050	.014	.098	.049	.014	.095	.048	.014	
10.0	.104	.050	.014	.102	.049	.014	.098	.048	.014	.095	.047	.013	.092	.046	.013	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	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	.170	.157	.146	.145	.135	.126	.099	.093	.087	.057	.054	.051	.018	.017	.016	
2.0	.154	.133	.115	.132	.114	.099	.090	.079	.069	.052	.046	.041	.017	.015	.013	
3.0	.140	.113	.092	.120	.098	.080	.082	.068	.056	.048	.040	.033	.015	.013	.011	
4.0	.129	.098	.075	.111	.085	.065	.076	.059	.046	.044	.035	.027	.014	.011	.009	
5.0	.120	.087	.062	.103	.075	.054	.071	.052	.038	.041	.031	.023	.013	.010	.007	
6.0	.112	.077	.052	.096	.067	.045	.066	.047	.032	.038	.027	.019	.012	.009	.006	
7.0	.105	.069	.044	.090	.060	.039	.062	.042	.027	.036	.025	.016	.012	.008	.005	
8.0	.099	.063	.038	.085	.054	.033	.059	.038	.024	.034	.023	.014	.011	.007	.005	
9.0	.094	.057	.033	.081	.050	.029	.056	.035	.020	.033	.021	.012	.011	.007	.004	
10.0	.089	.053	.029	.077	.046	.025	.053	.032	.018	.031	.019	.011	.010	.006	.004	

Test System:HOPOO 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

Uncorrected UGR Table

Report number:

MANUFACTURER:										
Address:										
NAME: LOGAN					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	0.9	1.7	1.1	1.8	2.0	-0.9	-0.1	-0.7	0.1	0.2
3H	1.0	1.8	1.2	2.0	2.1	-1.0	-0.3	-0.8	-0.1	0.1
4H	1.0	1.8	1.3	2.0	2.2	-1.1	-0.4	-0.8	-0.2	0.1
6H	1.0	1.7	1.3	1.9	2.2	-1.2	-0.5	-0.9	-0.2	-0.0
8H	1.0	1.7	1.3	1.9	2.2	-1.2	-0.5	-0.9	-0.3	-0.0
12H	1.0	1.6	1.3	1.9	2.2	-1.2	-0.6	-0.9	-0.3	-0.1
4H 2H	0.7	1.5	1.0	1.7	1.9	-0.9	-0.2	-0.7	-0.0	0.2
3H	0.9	1.5	1.2	1.8	2.1	-1.0	-0.4	-0.7	-0.1	0.1
4H	1.0	1.6	1.3	1.9	2.2	-1.1	-0.5	-0.7	-0.2	0.1
6H	1.0	1.5	1.4	1.8	2.2	-1.2	-0.7	-0.8	-0.3	0.0
8H	1.0	1.5	1.4	1.8	2.2	-1.2	-0.7	-0.8	-0.4	-0.0
12H	1.0	1.5	1.4	1.8	2.2	-1.2	-0.8	-0.8	-0.4	-0.0
8H 4H	0.9	1.4	1.3	1.7	2.1	-1.2	-0.7	-0.8	-0.3	0.0
6H	0.9	1.3	1.3	1.7	2.1	-1.2	-0.8	-0.8	-0.4	-0.0
8H	0.9	1.3	1.4	1.7	2.1	-1.2	-0.9	-0.8	-0.5	-0.1
12H	1.0	1.3	1.5	1.7	2.2	-1.2	-1.0	-0.8	-0.5	-0.0
12H 4H	0.8	1.3	1.2	1.6	2.0	-1.2	-0.8	-0.8	-0.4	-0.0
6H	0.9	1.2	1.3	1.6	2.0	-1.3	-0.9	-0.8	-0.5	-0.1
8H	0.9	1.2	1.4	1.6	2.1	-1.3	-1.0	-0.8	-0.5	-0.1
Variations with the observer position at spacings:										
S = 1.0H	+ 0.8 / - 1.1					+ 1.4 / - 2.5				
1.5H	+ 1.2 / - 0.8					+ 1.5 / - 1.6				
2.0H	+ 1.9 / - 2.1					+ 2.6 / - 3.5				

CIE Pub.117 Corrected 2633 lm Total Lamp Luminous Flux. (8log(F/F0) = 3.4)

Test System:HOPOO 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: LOGAN	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	90	84	80	89	84	80	88	83	80	77
0.80	97	91	88	96	91	88	95	90	87	84
1.00	101	96	92	100	95	92	98	95	91	88
1.25	104	100	96	103	99	96	102	98	95	91
1.50	107	103	100	106	102	99	104	100	98	94
2.00	109	105	102	108	104	102	105	102	100	95
2.50	111	107	105	109	106	104	106	104	102	96
3.00	112	109	107	111	108	105	107	105	103	97
4.00	114	112	110	112	110	108	109	107	106	99
5.00	115	113	112	113	112	110	109	108	107	100
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:10-18-2020

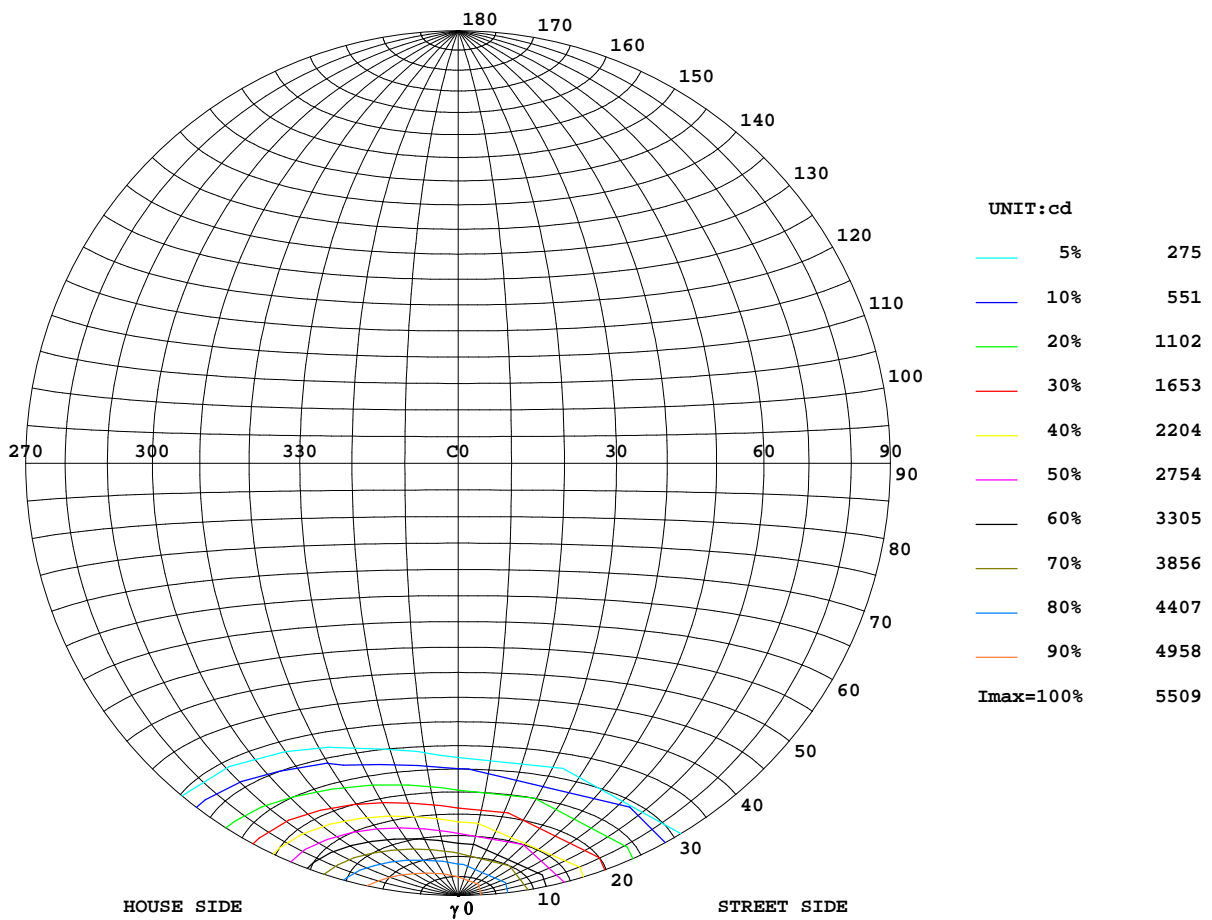
Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:5.150 m  
 Remarks:

# HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

## ISOCANDELA DIAGRAM

Report number:

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



Test System:HOPOO 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:

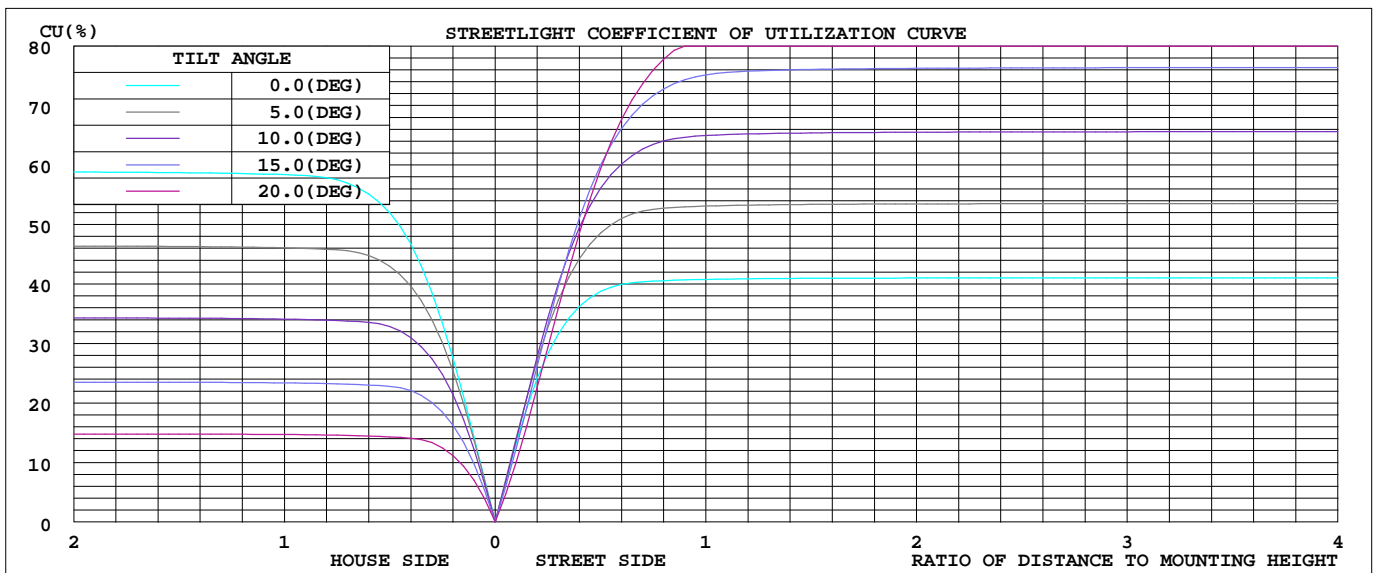
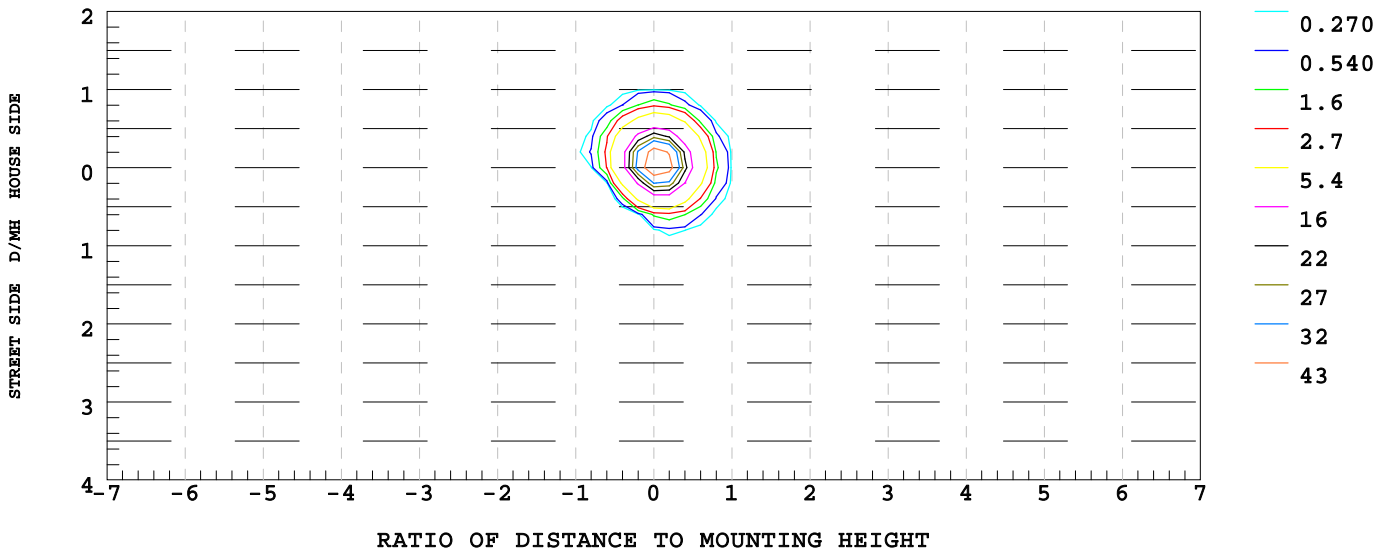
# HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

## ISOLUX DIAGRAM

Report number:

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

ILLUMINANCE AT MH=10 m, Enadir = 54.12 lx



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

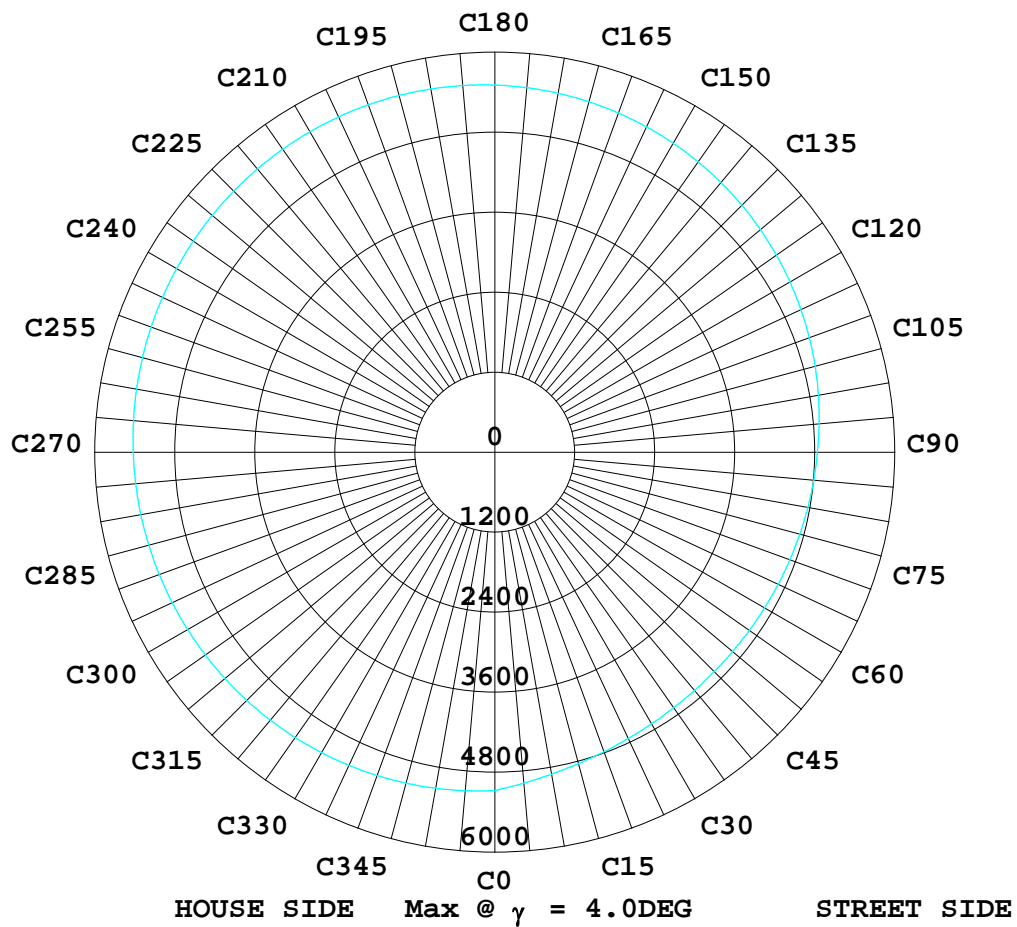
Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:5.150 m  
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Report number:

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



Test System:HOPOO 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: LOGAN	TYPE: 30 W	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.: LA/YE6L-990706

UNIT: cd

γ (DEG)	C (DEG)			
	0	90	180	270
0.0	5412	5252	5412	5252
5.0	4936	4677	5498	5435
10.0	4016	3707	5210	5245
15.0	2875	2600	4473	4609
20.0	1868	1625	3407	3591
25.0	1137	1028	2266	2418
30.0	557	390	1391	1513
35.0	102	63.9	824	944
40.0	48.4	42.4	243	306
45.0	36.6	28.4	53.9	59.4
50.0	26.9	17.9	37.6	42.5
55.0	19.7	11.2	26.3	28.5
60.0	14.1	5.80	18.1	17.9
65.0	9.52	1.11	12.4	11.3
70.0	5.86	1.03	7.47	5.96
75.0	3.66	0.53	5.03	1.90
80.0	1.59	0.48	2.22	1.77
85.0	1.40	0.48	1.14	1.67
90.0	1.27	0.56	1.43	1.56

Test System:HOPOO 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: