

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

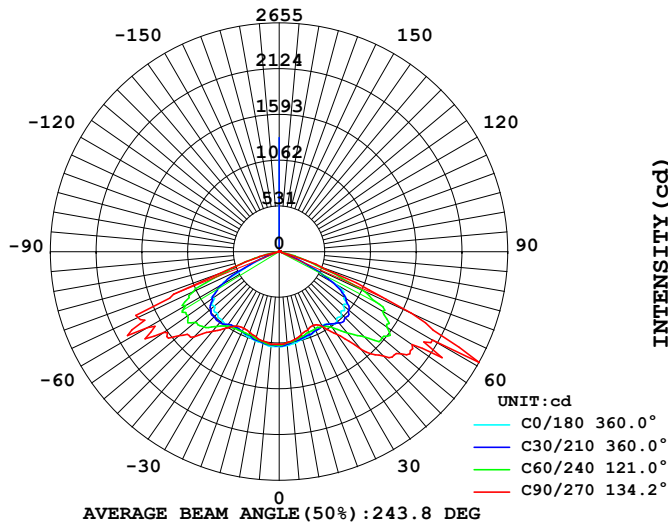
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

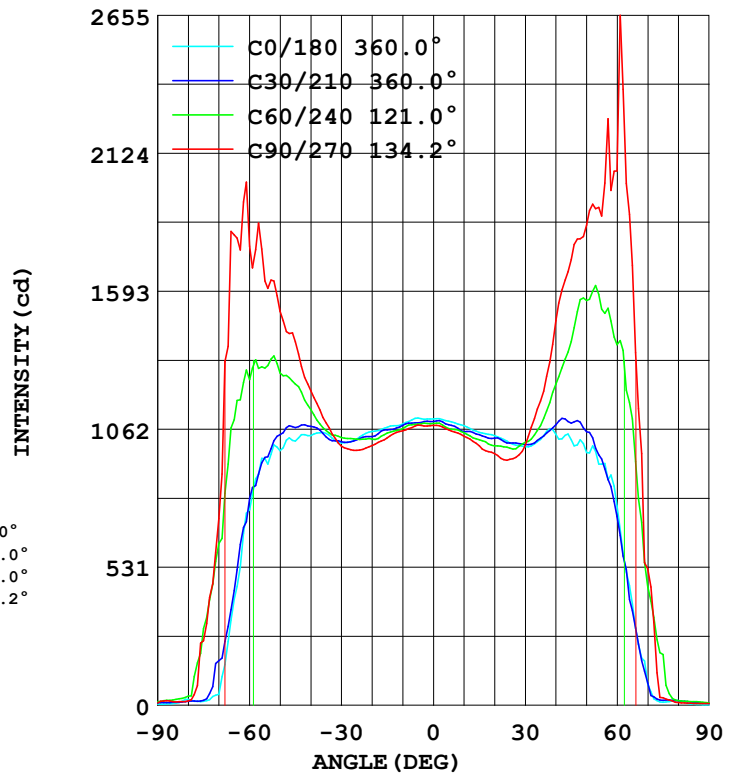
MANUFACTURER:		Address:	
NAME: STL-W40-60.120		TYPE:	WEIGHT:
SPECIFICATION:		DIMENSION:	SERIAL No.:

DATA OF LAMP		Imax (cd)	2655	S/MH (C0/180)	1.47
MODEL		EFFICIENCY (%)	100.0	S/MH (C90/270)	1.71
NOMINAL POWER (W)	40	TOTAL FLUX (lm)	4638.5	Voltage (V)	222.3
RATED VOLTAGE (V)	222	EFFICIENCY (lm/W)	114.2	Current (A)	0.184
NOMINAL FLUX (lm)	4638.5	$\eta$ up (%)	1.0	Power (W)	40.59
LAMPS QUANTITY	1	$\eta$ down (%)	99.0	Power Factor (PF)	0.992
TEST VOLTAGE (V)	222.3	Effective Flux (lm)	4502.3	EET	0.123

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:

Test Set: 8.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:6.760 m  
 Remarks:

Color Temperature Data List

Report number:

MANUFACTURER:	Address:	
NAME: STL-W40-60.120	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

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Test System:HOPOO HPG1900  
Temperature:25.3DEG  
Operators:

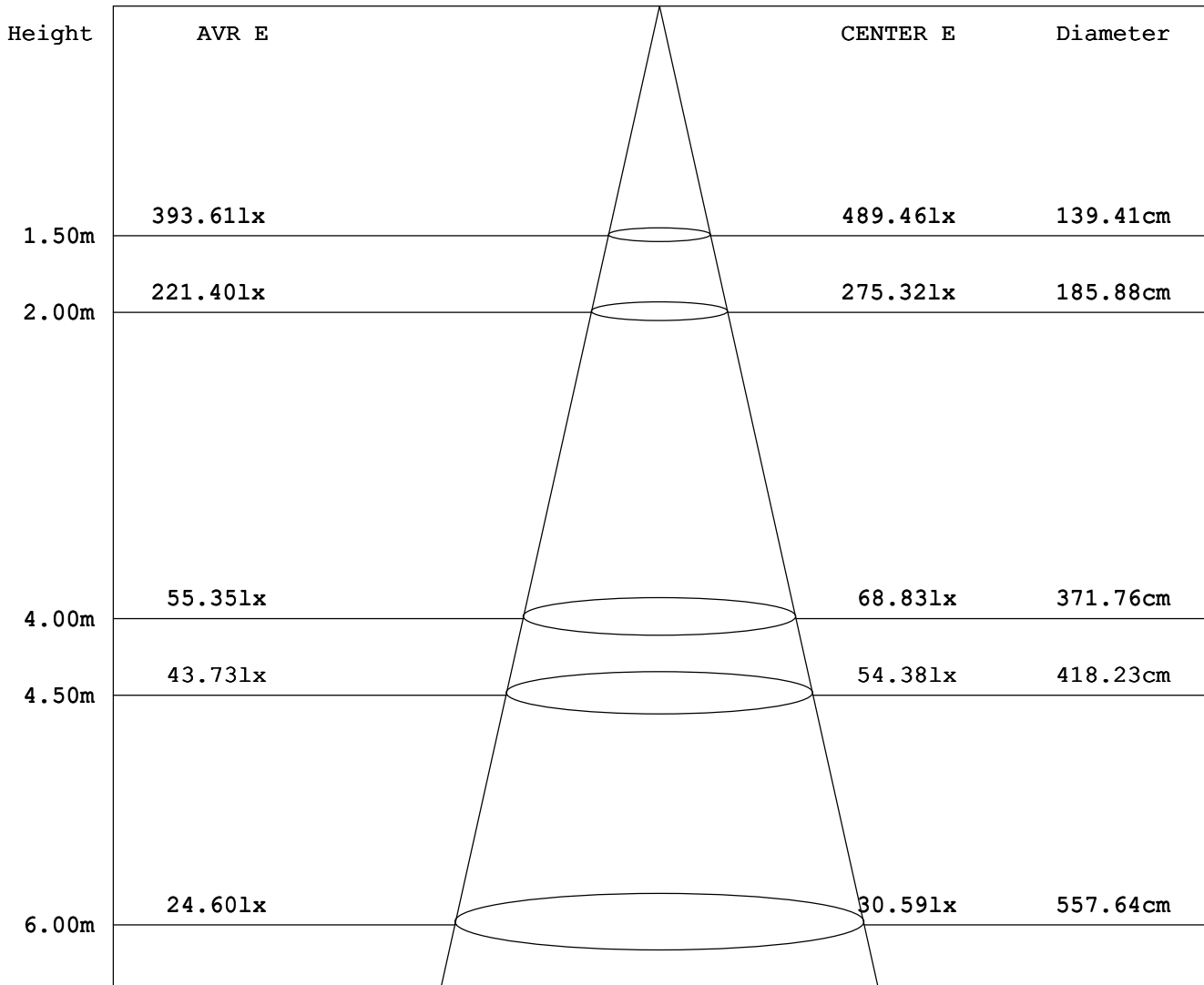
Test Set: 8.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:6.760 m  
Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER:		Address:	
NAME:	STL-W40-60.120	TYPE:	WEIGHT:
SPECIFICATION:		DIMENSION:	SERIAL No.:



Angle:49.8deg

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:

Test Set: 8.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:6.760 m  
 Remarks:

**HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT**

**ZONAL FLUX DIAGRAM**

Report number:

<b>MANUFACTURER:</b>	<b>Address:</b>	
<b>NAME: STL-W40-60.120</b>	<b>TYPE:</b>	<b>WEIGHT:</b>
<b>SPECIFICATION:</b>	<b>DIMENSION:</b>	<b>SERIAL No.:</b>

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	zone	total
5.0	1105	1084	1078	1057	1094	1072	1059	1057	0- 5	25.73	25.73
10.0	1082	1070	1055	1044	1076	1050	1035	1038	5- 10	76.15	101.8
15.0	1070	1054	1029	1022	1050	1031	998.4	1013	10- 15	123.7	225.6
20.0	1054	1029	999.6	1006	1037	1013	968.9	986.5	15- 20	167.9	393.6
25.0	1024	1022	980.9	991.7	1009	999.1	945.9	981.8	20- 25	210.6	604.2
30.0	1010	1022	996.7	996.7	995.0	1007	999.5	980.2	25- 30	252.1	856.4
35.0	1046	1045	1087	1024	1023	1052	1170	1041	30- 35	301.6	1158
40.0	1038	1105	1211	1082	1043	1157	1480	1137	35- 40	366.7	1525
45.0	1016	1151	1399	1160	1021	1242	1715	1273	40- 45	441.7	1967
50.0	980.0	1160	1517	1204	971.7	1305	1848	1321	45- 50	509.9	2476
55.0	949.1	1126	1633	1179	927.7	1236	1882	1264	50- 55	556.0	3033
60.0	751.7	1024	1766	1076	766.2	1056	2055	1080	55- 60	567.6	3600
65.0	408.4	770.2	1810	883.9	389.8	732.4	1692	846.8	60- 65	515.7	4116
70.0	42.28	396.7	718.8	493.4	81.65	271.3	525.3	357.4	65- 70	312.8	4429
75.0	15.93	157.1	247.8	220.7	12.00	107.1	28.80	117.6	70- 75	118.0	4547
80.0	22.91	25.25	16.76	26.01	17.32	17.46	10.64	20.19	75- 80	31.97	4579
85.0	6.266	15.79	14.45	16.42	3.812	12.40	7.172	15.30	80- 85	8.753	4588
90.0	4.530	11.57	9.475	11.66	2.000	8.210	6.984	9.947	85- 90	6.179	4594
95.0	4.001	5.606	6.002	5.624	2.416	4.624	7.097	5.247	90- 95	3.547	4597
100.0	4.341	4.700	5.889	5.020	2.944	4.662	6.719	4.964	95-100	2.647	4600
105.0	4.794	5.473	7.135	5.964	3.661	5.190	7.701	5.304	100-105	2.774	4603
110.0	5.473	6.304	9.211	6.738	4.454	5.832	8.343	6.002	105-110	3.138	4606
115.0	6.115	6.927	8.607	7.097	5.020	6.323	8.607	6.474	110-115	3.356	4609
120.0	6.606	7.342	8.833	7.474	5.624	6.757	8.796	6.776	115-120	3.411	4613
125.0	6.984	7.606	9.022	7.757	6.077	7.531	8.984	7.380	120-125	3.426	4616
130.0	7.361	7.927	9.098	7.908	6.682	7.663	9.173	7.795	125-130	3.380	4620
135.0	7.814	8.229	9.249	8.097	7.059	7.946	9.286	8.022	130-135	3.244	4623
140.0	8.041	8.418	9.400	8.361	7.625	8.286	9.551	8.286	135-140	3.076	4626
145.0	8.267	8.626	9.249	8.512	8.003	8.494	9.551	8.418	140-145	2.843	4629
150.0	8.645	8.607	8.984	8.512	8.418	8.569	9.362	8.437	145-150	2.536	4631
155.0	8.833	8.739	8.833	8.475	8.607	8.663	9.060	8.512	150-155	2.188	4633
160.0	8.947	8.607	8.645	8.531	8.796	8.682	8.984	8.569	155-160	1.820	4635
165.0	9.286	8.701	8.682	8.550	8.833	8.777	8.984	8.550	160-165	1.435	4637
170.0	9.249	8.663	8.531	8.437	8.871	8.607	8.607	8.512	165-170	1.033	4638
175.0	9.098	8.475	8.418	8.286	8.758	8.437	8.569	8.324	170-175	0.614	4638
180.0	8.947	8.437	8.343	8.286	8.909	8.418	8.607	8.192	175-180	0.202	4639
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:

Test Set: 8.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:6.760 m  
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

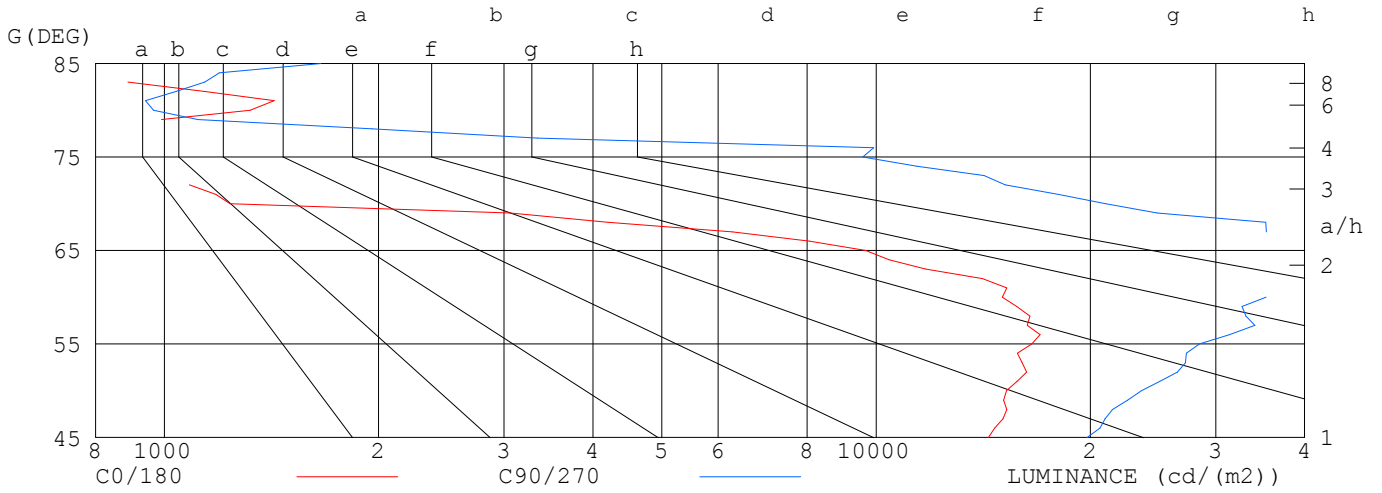
LUMINANCE LIMITATION CURVES

Report number:

<b>MANUFACTURER:</b>		<b>Address:</b>	
<b>NAME: STL-W40-60.120</b>		<b>TYPE:</b>	<b>WEIGHT:</b>
<b>SPECIFICATION:</b>		<b>DIMENSION:</b>	<b>SERIAL No.:</b>

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



G (DEG)	LUMINANCE cd/(m2)	
	C0/180	C90/270
85	719	1659
80	1320	965
75	616	9576
70	1236	21018
65	9665	42827
60	15035	35324
55	16549	28462
50	15247	23599
45	14371	19778

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:

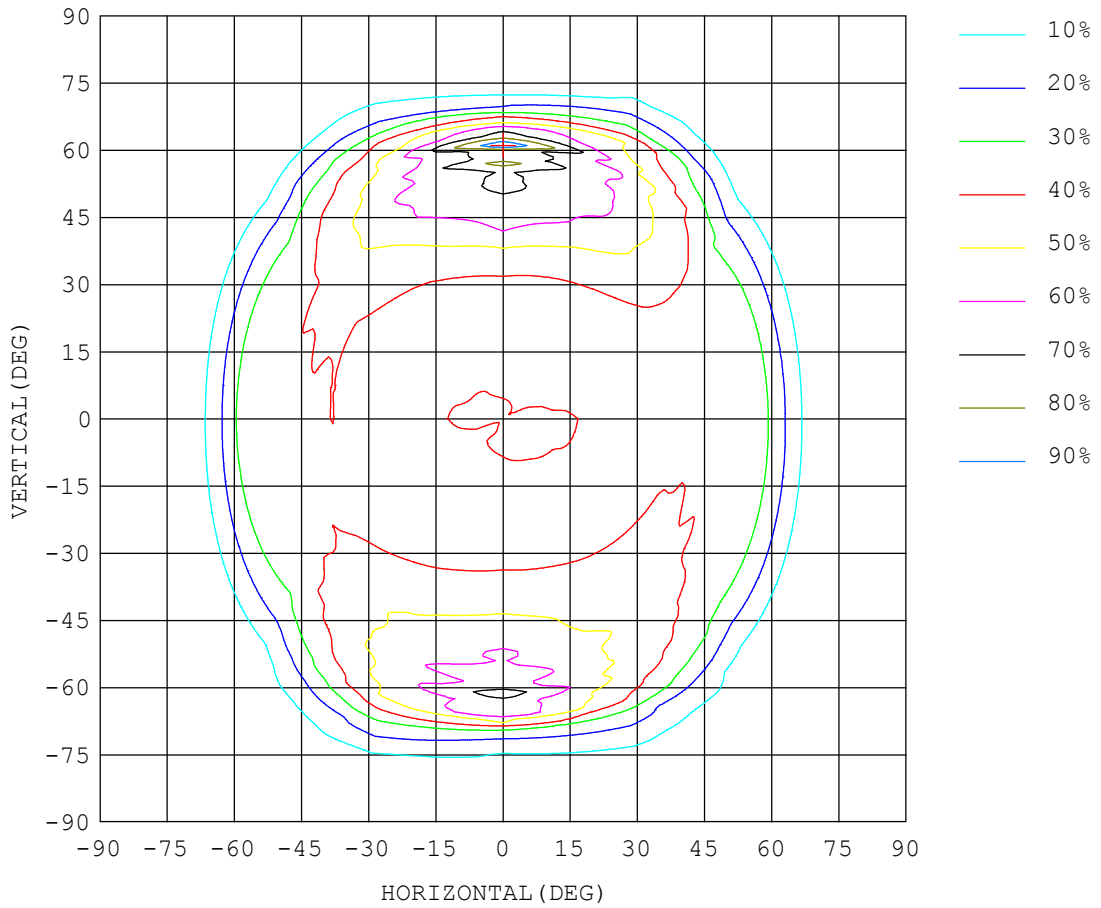
Test Set: 8.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:6.760 m  
 Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:	Address:	
NAME: STL-W40-60.120	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

UNIT: cd



Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:

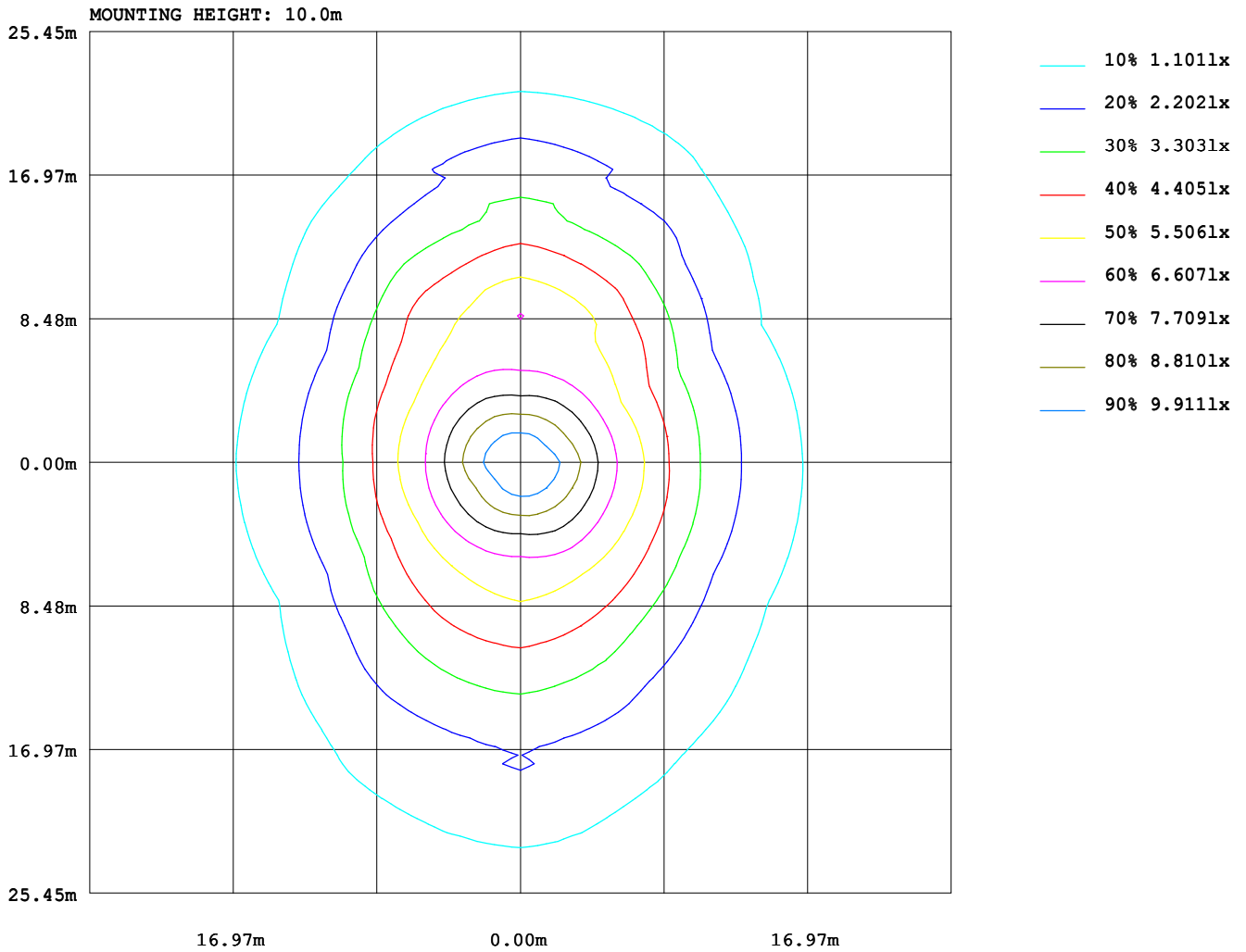
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 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Report number:

MANUFACTURER:	Address:	
NAME: STL-W40-60.120	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:

Test Set: 8.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:6.760 m  
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

AREA LUMINOUS FLUX

Report number:

MANUFACTURER:				Address:															
NAME: STL-W40-60.120				TYPE:										WEIGHT:					
SPECIFICATION:				DIMENSION:										SERIAL No.:					

		AREA FLUX DIAGRAM																UNIT:lm		$\Phi t$	$\Phi a$		
90		0.01	0.04	0.10	0.18	0.25	0.32	0.34	0.31	0.27	0.28	0.36	0.41	0.39	0.31	0.23	0.14	0.06	0.02	4.01	0.00		
80		0.01	0.05	0.15	0.28	0.51	1.50	2.91	3.72	4.05	4.36	4.50	3.87	2.11	0.70	0.32	0.18	0.08	0.02	29.3	12.1		
70		0.01	0.08	0.22	0.56	3.27	10.7	21.8	33.6	44.4	45.3	36.4	26.1	13.4	4.14	0.67	0.25	0.10	0.02	242	233		
60		0.01	0.11	0.25	1.67	10.7	25.7	39.9	50.4	57.2	57.7	51.9	42.4	28.0	11.9	1.83	0.26	0.14	0.02	381	376		
50		0.01	0.13	0.56	5.41	17.7	31.1	41.1	46.0	49.7	50.1	47.0	41.9	31.6	17.9	5.38	0.56	0.14	0.02	387	383		
40		0.02	0.13	1.68	10.2	20.8	30.1	34.1	35.1	35.8	35.8	35.4	34.6	29.7	20.3	10.2	1.61	0.14	0.02	336	333		
30		0.02	0.14	3.16	13.7	22.2	27.3	29.0	29.6	29.5	29.2	29.1	28.5	26.4	21.7	13.6	3.11	0.16	0.03	307	305		
		0.02	0.16	4.43	15.4	22.4	26.1	27.7	29.7	30.5	30.2	29.1	27.2	25.5	22.0	15.4	4.50	0.18	0.03	311	309		
		0.02	0.19	5.17	16.0	22.1	25.6	27.8	30.6	32.2	31.9	30.4	27.9	25.6	22.0	16.0	5.33	0.19	0.03	320	318		
		0.02	0.21	5.21	16.0	22.0	25.5	27.7	30.2	32.0	32.6	31.0	28.2	25.8	22.1	16.1	5.41	0.20	0.03	321	319		
		0.02	0.19	4.58	15.4	22.0	25.5	27.4	29.4	30.9	31.3	30.2	28.0	26.1	22.3	15.6	4.76	0.20	0.03	315	313		
-30		0.02	0.15	3.43	13.7	21.7	26.2	28.1	29.3	30.0	30.3	30.1	28.9	26.8	22.0	14.2	3.51	0.17	0.03	309	307		
-40		0.02	0.14	2.05	10.5	20.3	28.1	31.5	32.3	32.9	33.1	32.6	31.6	27.9	20.7	11.3	2.04	0.14	0.02	318	315		
-50		0.02	0.13	0.93	6.18	18.0	29.5	36.6	39.6	41.0	40.7	38.5	34.8	28.2	18.3	6.64	0.90	0.13	0.02	341	336		
-60		0.01	0.12	0.30	2.87	13.3	27.7	39.3	45.5	49.4	48.6	43.1	35.5	25.3	12.3	2.77	0.28	0.12	0.02	347	342		
-70		0.01	0.09	0.23	1.02	6.38	17.2	29.8	38.9	46.1	44.9	35.4	24.6	13.5	4.94	0.78	0.21	0.09	0.02	265	258		
-80		0.01	0.07	0.17	0.37	1.39	4.31	7.74	8.87	8.89	8.31	7.28	5.58	2.94	0.96	0.29	0.14	0.06	0.02	57.4	40.0		
-90		0.01	0.05	0.14	0.23	0.33	0.45	0.53	0.53	0.49	0.49	0.54	0.55	0.46	0.32	0.21	0.12	0.06	0.02	5.52	0.00		
		-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)						20	30	40	50	60	70	80	90
$\Phi t$		0.29	2.18	32.8	130	246	364	454	514	556	556	514	451	360	245	132	33.3	2.34	0.41	4639			
$\Phi a$		0.00	0.00	21.7	122	238	358	449	510	552	552	509	446	354	238	124	23.9	0.00	0.00		4502		

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:

Test Set: 8.0deg/s C-Gamma (TYPE C)  
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 Test Distance:6.760 m  
 Remarks:



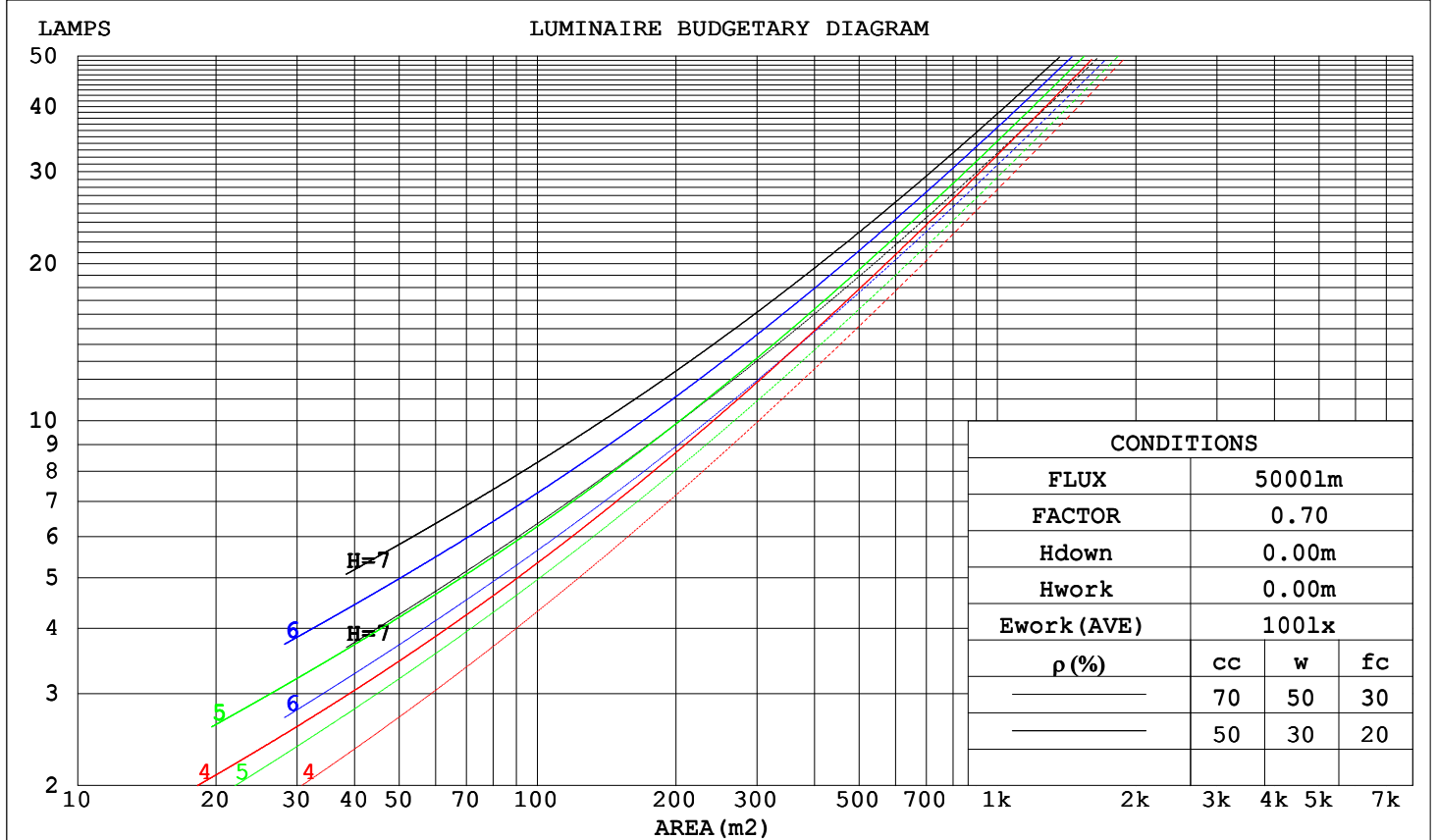
HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER:				Address:							
NAME: STL-W40-60.120				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 <sub>c</sub>	20%			20%			20%			20%			20%			0
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	1.01	1.01	1.01	.99
1.0	1.04	.90	.96	1.02	.98	.94	.97	.94	.91	.93	.91	.88	.89	.87	.85	.83
2.0	.90	.83	.77	.88	.81	.76	.84	.78	.74	.80	.76	.72	.77	.74	.70	.68
3.0	.77	.69	.62	.76	.68	.61	.73	.66	.60	.70	.64	.59	.67	.62	.58	.55
4.0	.67	.58	.51	.66	.57	.50	.63	.56	.50	.61	.54	.49	.58	.53	.48	.46
5.0	.59	.49	.42	.58	.49	.42	.56	.48	.42	.53	.46	.41	.51	.45	.40	.38
6.0	.52	.43	.36	.51	.42	.36	.49	.41	.35	.47	.40	.35	.46	.39	.34	.32
7.0	.47	.37	.31	.46	.37	.31	.44	.36	.30	.43	.35	.30	.41	.35	.30	.28
8.0	.42	.33	.27	.41	.33	.27	.40	.32	.26	.39	.31	.26	.37	.31	.26	.24
9.0	.38	.30	.24	.38	.29	.24	.36	.29	.23	.35	.28	.23	.34	.28	.23	.21
10.0	.35	.27	.21	.34	.26	.21	.33	.26	.21	.32	.25	.21	.31	.25	.20	.19



Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:

Test Set: 8.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:6.760 m  
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

WEC AND CCEC

Report number:

MANUFACTURER:				Address:											
NAME: STL-W40-60.120				TYPE:						WEIGHT:					
SPECIFICATION:				DIMENSION:						SERIAL No.:					

ρ <sub>cc</sub>	80%			70%			50%			30%			10%			0
ρ <sub>w</sub>	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ <sub>fc</sub>	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.303	.172	.055	.295	.168	.054	.282	.162	.052	.269	.155	.050	.257	.149	.048	
2.0	.297	.163	.050	.291	.160	.049	.279	.155	.048	.267	.150	.047	.257	.145	.046	
3.0	.281	.150	.045	.275	.147	.044	.264	.143	.044	.254	.139	.043	.245	.136	.042	
4.0	.262	.136	.040	.257	.135	.040	.247	.131	.039	.238	.128	.039	.230	.125	.038	
5.0	.244	.124	.036	.239	.123	.036	.230	.120	.035	.222	.117	.035	.214	.115	.034	
6.0	.226	.113	.032	.222	.112	.032	.214	.110	.032	.207	.108	.032	.200	.105	.031	
7.0	.210	.104	.029	.207	.103	.029	.200	.101	.029	.193	.099	.029	.187	.097	.029	
8.0	.196	.096	.027	.193	.095	.027	.187	.093	.027	.181	.092	.026	.175	.090	.026	
9.0	.183	.089	.025	.180	.088	.025	.175	.086	.024	.169	.085	.024	.164	.083	.024	
10.0	.172	.083	.023	.169	.082	.023	.164	.080	.023	.159	.079	.022	.155	.078	.022	

ρ <sub>cc</sub>	80%			70%			50%			30%			10%			0
ρ <sub>w</sub>	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ <sub>fc</sub>	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0																
1.0	.198	.198	.198	.169	.169	.169	.115	.115	.115	.066	.066	.066	.021	.021	.021	
2.0	.187	.164	.142	.160	.140	.122	.110	.097	.085	.063	.056	.049	.020	.018	.016	
3.0	.180	.139	.105	.155	.120	.091	.106	.083	.063	.061	.048	.037	.020	.016	.012	
4.0	.174	.122	.080	.149	.105	.070	.102	.073	.049	.059	.043	.029	.019	.014	.009	
5.0	.168	.109	.064	.144	.094	.055	.099	.066	.039	.057	.038	.023	.018	.012	.008	
6.0	.161	.099	.053	.138	.085	.046	.095	.060	.032	.055	.035	.019	.018	.011	.006	
7.0	.154	.091	.045	.132	.078	.039	.091	.055	.028	.053	.032	.016	.017	.011	.005	
8.0	.147	.084	.039	.127	.073	.034	.088	.051	.024	.051	.030	.014	.016	.010	.005	
9.0	.141	.078	.035	.121	.068	.030	.084	.048	.022	.049	.028	.013	.016	.009	.004	
10.0	.135	.073	.032	.116	.064	.028	.080	.045	.020	.047	.026	.012	.015	.009	.004	
10.0	.129	.069	.029	.111	.060	.025	.077	.042	.018	.045	.025	.011	.015	.008	.004	

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:

Test Set: 8.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:6.760 m  
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

Uncorrected UGR Table

Report number:

MANUFACTURER:					Address:					
NAME: STL-W40-60.120					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	22.5	24.1	22.8	24.4	24.6	26.4	28.0	26.6	28.2	28.4
3H	22.7	24.1	23.0	24.4	24.7	28.5	30.0	28.8	30.2	30.5
4H	22.6	24.0	22.9	24.2	24.5	28.6	30.0	28.9	30.2	30.5
6H	22.4	23.8	22.8	24.1	24.4	28.5	29.8	28.8	30.1	30.4
8H	22.4	23.7	22.8	24.0	24.3	28.4	29.7	28.8	30.0	30.3
12H	22.3	23.6	22.7	23.9	24.2	28.4	29.6	28.7	29.9	30.2
4H 2H	23.6	25.0	23.9	25.2	25.5	26.6	28.0	26.9	28.3	28.6
3H	23.7	24.9	24.1	25.2	25.6	28.7	29.9	29.1	30.3	30.6
4H	23.6	24.7	24.0	25.0	25.4	28.9	30.0	29.3	30.3	30.7
6H	23.5	24.5	23.9	24.9	25.2	28.8	29.8	29.2	30.1	30.5
8H	23.5	24.4	23.9	24.8	25.2	28.7	29.6	29.2	30.0	30.4
12H	23.4	24.3	23.9	24.7	25.1	28.7	29.5	29.1	29.9	30.4
8H 4H	23.8	24.7	24.2	25.0	25.5	28.8	29.7	29.2	30.0	30.5
6H	23.7	24.4	24.1	24.8	25.3	28.7	29.4	29.2	29.9	30.3
8H	23.7	24.3	24.1	24.7	25.2	28.7	29.3	29.1	29.8	30.2
12H	23.6	24.2	24.1	24.6	25.1	28.6	29.2	29.1	29.7	30.2
12H 4H	23.7	24.5	24.2	24.9	25.4	28.7	29.5	29.2	29.9	30.4
6H	23.7	24.3	24.1	24.7	25.2	28.7	29.3	29.1	29.8	30.2
8H	23.6	24.2	24.1	24.6	25.1	28.6	29.2	29.1	29.7	30.1
Variations with the observer position at spacings:										
S = 1.0H	+ 0.4 / - 0.8					+ 0.4 / - 0.4				
1.5H	+ 0.9 / - 1.3					+ 1.3 / - 0.6				
2.0H	+ 0.6 / - 1.4					+ 2.4 / - 2.2				

CIE Pub.117 Corrected 4639 lm Total Lamp Luminous Flux. (8log(F/F0) = 5.3)

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:

Test Set: 8.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:6.760 m  
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

UTILIZATION FACTORS TABLE

Report number:

MANUFACTURER:		Address:		
NAME: STL-W40-60.120		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	50	37	29	49	36	29	47	36	29	21
0.80	61	48	40	60	47	39	58	47	39	31
1.00	71	59	50	70	58	50	67	60	50	42
1.25	79	68	60	77	67	59	75	65	58	50
1.50	85	74	66	83	73	66	80	71	65	57
2.00	93	84	77	91	83	76	87	80	75	66
2.50	97	89	83	95	88	82	91	85	80	71
3.00	101	94	88	99	93	87	95	89	85	76
4.00	106	100	95	103	98	94	99	95	91	82
5.00	108	103	99	106	101	98	101	98	95	85
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

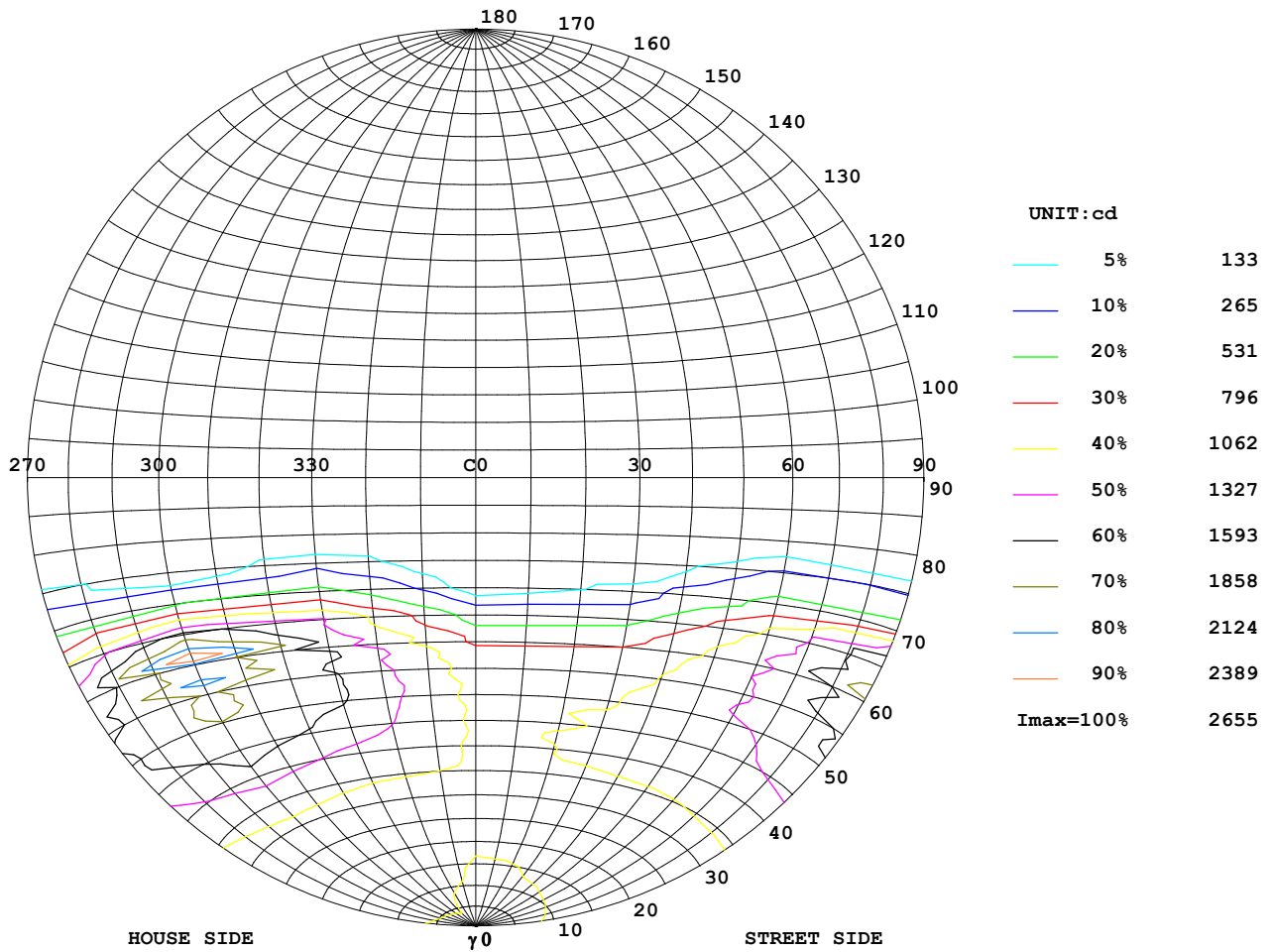
Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:

Test Set: 8.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:6.760 m  
 Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:	Address:	
NAME: STL-W40-60.120	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:

Test Set: 8.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:6.760 m  
 Remarks:

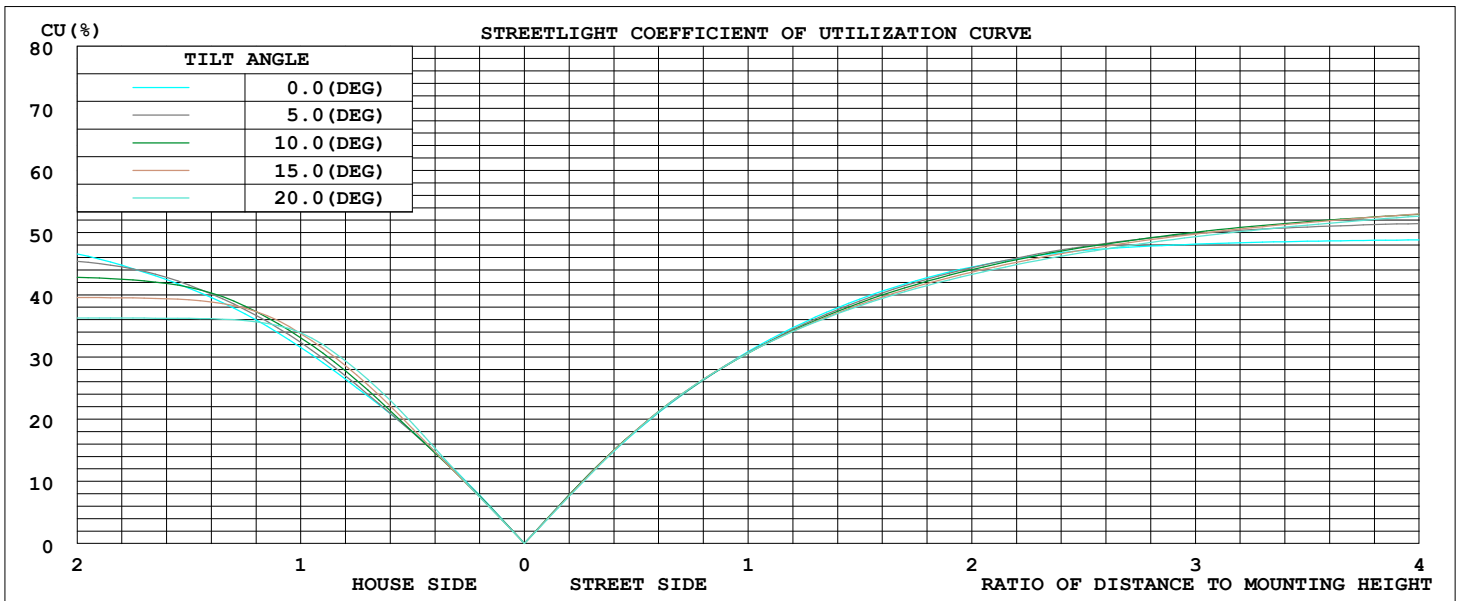
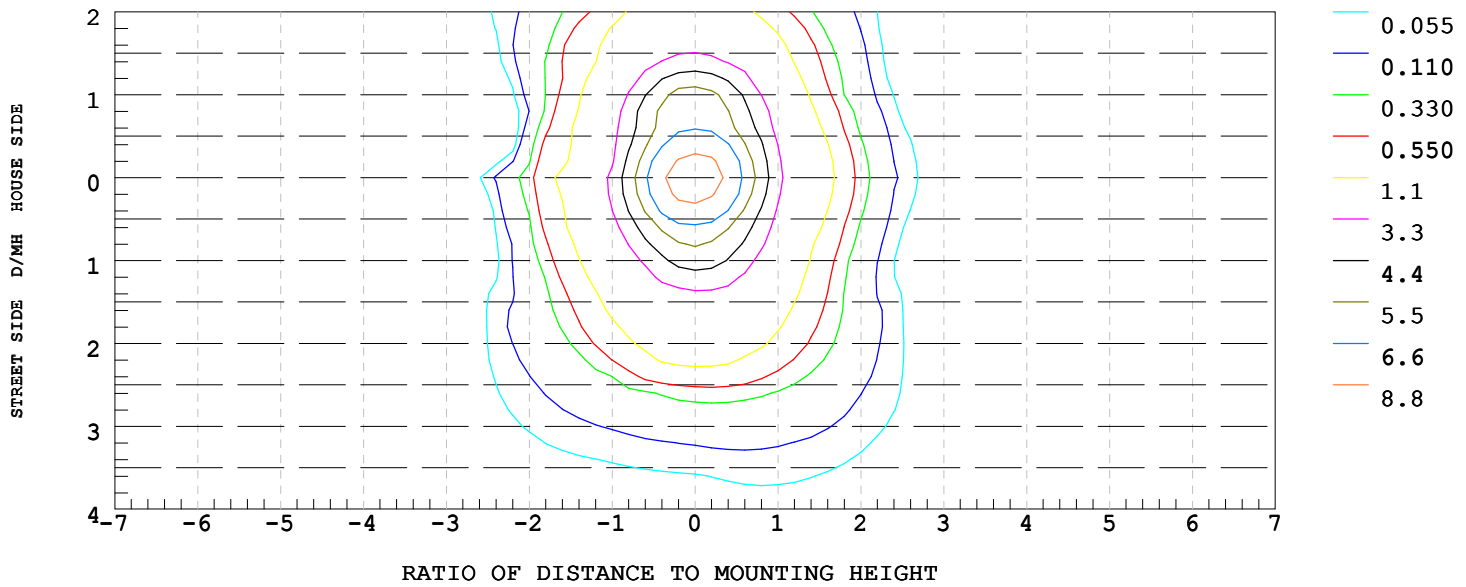
HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Report number:

MANUFACTURER:	Address:	
NAME: STL-W40-60.120	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

ILLUMINANCE AT MH=10 m, Enadir = 11.01 lx



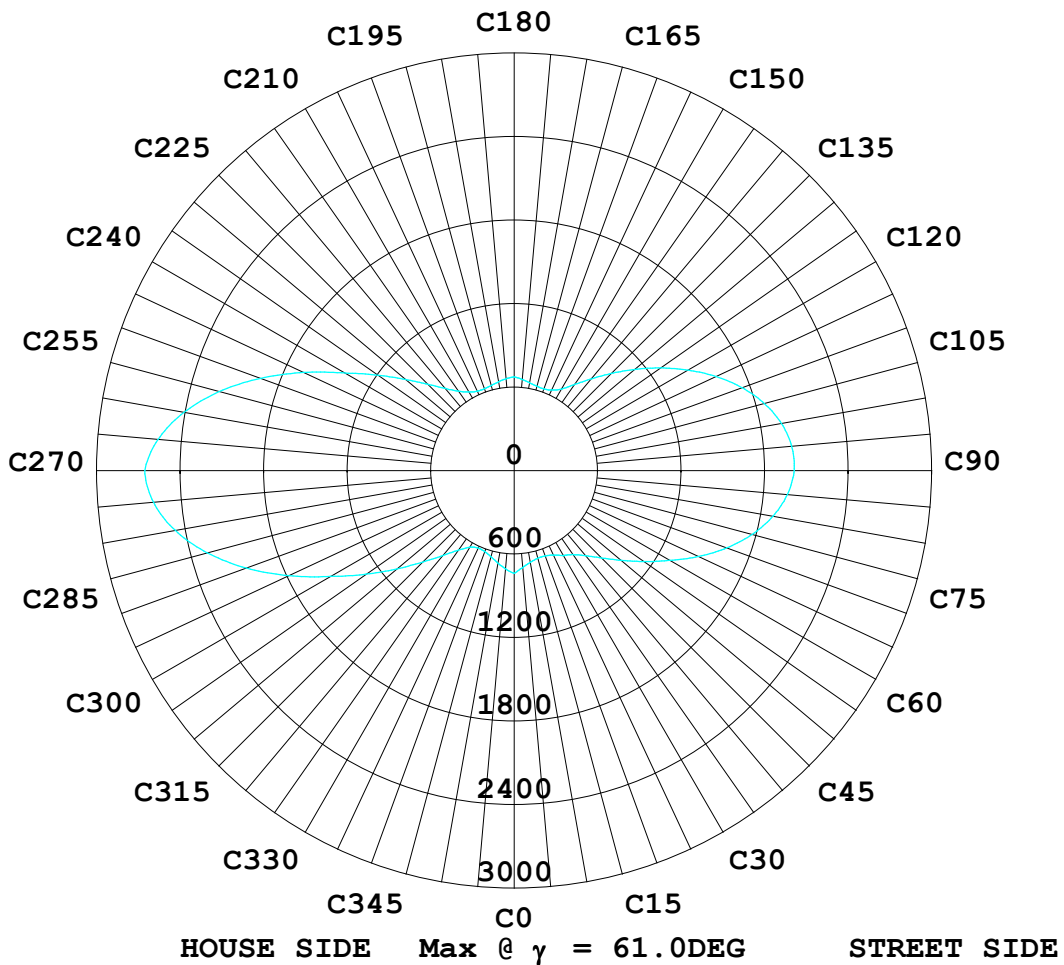
Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:

Test Set: 8.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:6.760 m  
 Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:	Address:	
NAME: STL-W40-60.120	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:

Test Set: 8.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:6.760 m  
 Remarks:

**HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT**

**LUMINOUS DISTRIBUTION INTENSITY DATA**

Report number:

<b>MANUFACTURER:</b>	<b>Address:</b>	
<b>NAME: STL-W40-60.120</b>	<b>TYPE:</b>	<b>WEIGHT:</b>
<b>SPECIFICATION:</b>	<b>DIMENSION:</b>	<b>SERIAL No.:</b>

UNIT: cd

γ (DEG)	C (DEG)											
	0	30	60	90	120	150	180	210	240	270	300	330
0.0	1101	1091	1084	1076	1068	1058	1101	1091	1084	1076	1068	1058
5.0	1105	1087	1081	1078	1064	1049	1094	1079	1065	1059	1057	1056
10.0	1082	1076	1064	1055	1048	1040	1076	1053	1048	1035	1039	1038
15.0	1070	1060	1047	1029	1030	1013	1050	1041	1021	998	1004	1021
20.0	1054	1034	1024	1000	1005	1006	1037	1028	998	969	979	994
25.0	1024	1021	1024	981	995	988	1009	1009	989	946	969	995
30.0	1010	1014	1030	997	997	997	995	1003	1011	1000	985	975
35.0	1046	1033	1057	1087	1043	1005	1023	1028	1076	1170	1092	991
40.0	1038	1073	1138	1211	1126	1038	1043	1080	1235	1480	1236	1038
45.0	1016	1068	1235	1399	1265	1056	1021	1085	1399	1715	1497	1049
50.0	980	1041	1279	1517	1381	1028	972	1052	1558	1848	1615	1027
55.0	949	954	1297	1633	1450	907	928	948	1524	1882	1609	918
60.0	752	795	1253	1766	1409	743	766	726	1387	2055	1447	714
65.0	408	442	1099	1810	1365	403	390	364	1101	1692	1343	351
70.0	42.2	171	622	719	820	167	81.6	86.1	457	525	617	98.2
75.0	15.9	19.4	295	248	418	23.5	12.0	19.3	195	28.8	215	19.9
80.0	22.9	15.4	35.1	16.7	34.2	17.7	17.3	17.4	17.5	10.6	21.4	18.9
85.0	6.26	11.1	20.4	14.4	18.7	14.0	3.81	11.2	13.5	7.17	16.6	13.9
90.0	4.53	8.72	14.4	9.47	13.4	9.89	2.00	7.05	9.36	6.98	10.6	9.28
95.0	4.00	3.66	7.55	6.00	7.96	3.28	2.41	4.00	5.24	7.09	5.85	4.64
100.0	4.34	3.20	6.19	5.88	6.53	3.51	2.94	4.41	4.90	6.71	5.51	4.41
105.0	4.79	4.07	6.87	7.13	7.58	4.34	3.66	4.94	5.43	7.70	5.47	5.13
110.0	5.47	4.90	7.70	9.21	8.38	5.09	4.45	5.62	6.04	8.34	6.11	5.88
115.0	6.11	5.66	8.19	8.60	8.45	5.73	5.02	6.15	6.49	8.60	6.56	6.38
120.0	6.60	6.22	8.45	8.83	8.64	6.30	5.62	6.56	6.94	8.79	6.98	6.56
125.0	6.98	6.56	8.64	9.02	8.79	6.71	6.07	7.58	7.47	8.98	7.70	7.05
130.0	7.36	6.94	8.90	9.09	8.87	6.94	6.68	7.77	7.55	9.17	7.77	7.81
135.0	7.81	7.32	9.13	9.24	8.90	7.28	7.05	8.11	7.77	9.28	8.11	7.92
140.0	8.04	7.62	9.21	9.40	9.13	7.58	7.62	8.41	8.15	9.55	8.38	8.19
145.0	8.26	7.96	9.28	9.24	9.17	7.85	8.00	8.68	8.30	9.55	8.53	8.30
150.0	8.64	8.07	9.13	8.98	9.02	8.00	8.41	8.75	8.38	9.36	8.41	8.45
155.0	8.83	8.34	9.13	8.83	8.87	8.07	8.60	8.94	8.38	9.06	8.49	8.53
160.0	8.94	8.38	8.83	8.64	8.83	8.22	8.79	8.94	8.41	8.98	8.49	8.64
165.0	9.28	8.60	8.79	8.68	8.68	8.41	8.83	9.09	8.45	8.98	8.34	8.75
170.0	9.24	8.64	8.68	8.53	8.56	8.30	8.87	8.90	8.30	8.60	8.26	8.75
175.0	9.09	8.41	8.53	8.41	8.41	8.15	8.75	8.68	8.19	8.56	8.19	8.45
180.0	8.94	8.41	8.45	8.34	8.38	8.19	8.90	8.64	8.19	8.60	8.07	8.30

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:

Test Set: 8.0deg/s C-Gamma (TYPE C)  
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 Remarks: