

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

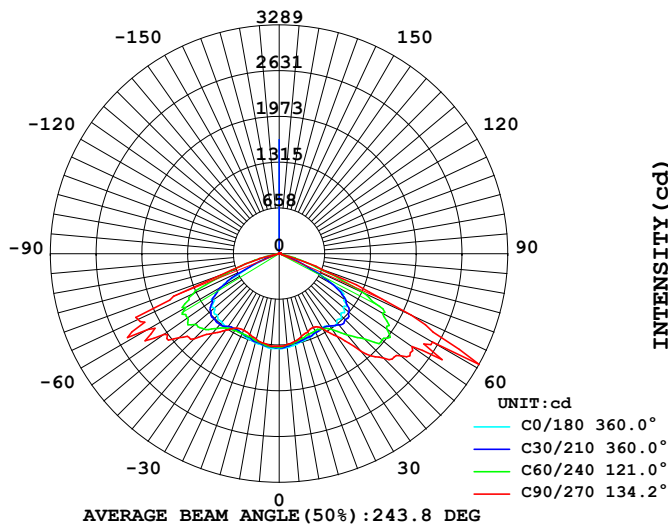
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

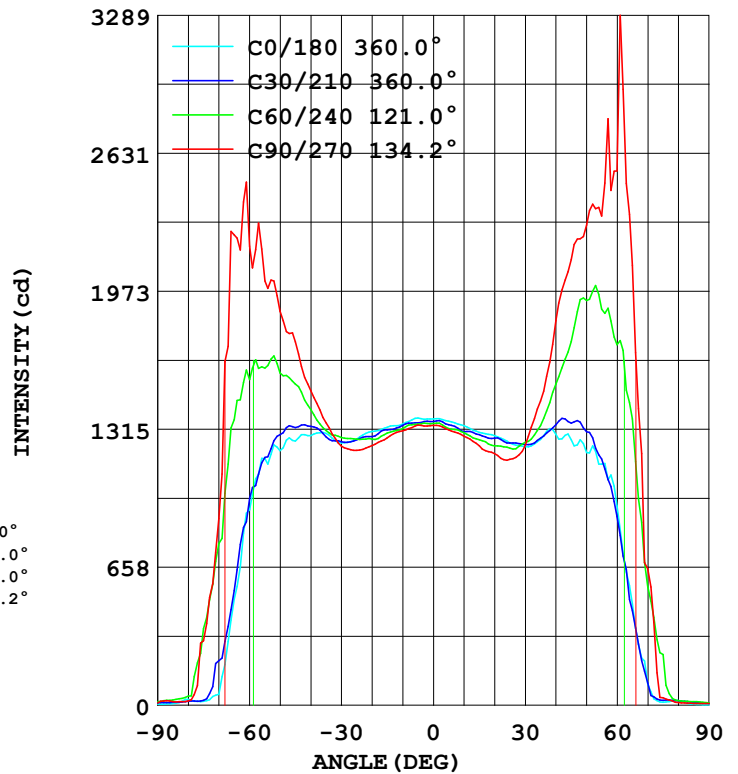
MANUFACTURER:		Address:	
NAME: STL-W50-60.120		TYPE:	WEIGHT:
SPECIFICATION:		DIMENSION:	SERIAL No.:

DATA OF LAMP		Imax (cd)	3289	S/MH (C0/180)	1.47
MODEL		EFFICIENCY (%)	100.0	S/MH (C90/270)	1.71
NOMINAL POWER (W)	50	TOTAL FLUX (lm)	5745.7	Voltage (V)	222.3
RATED VOLTAGE (V)	222	EFFICIENCY (lm/W)	114.1	Current (A)	0.228
NOMINAL FLUX (lm)	5745.7	η up (%)	1.0	Power (W)	50.34
LAMPS QUANTITY	1	η down (%)	99.0	Power Factor (PF)	0.992
TEST VOLTAGE (V)	222.3	Effective Flux (lm)	5577.0	EET	0.123

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



Test System: HOPOO HPG1900
 Temperature: 25.3 DEG
 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-W50-60.120	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

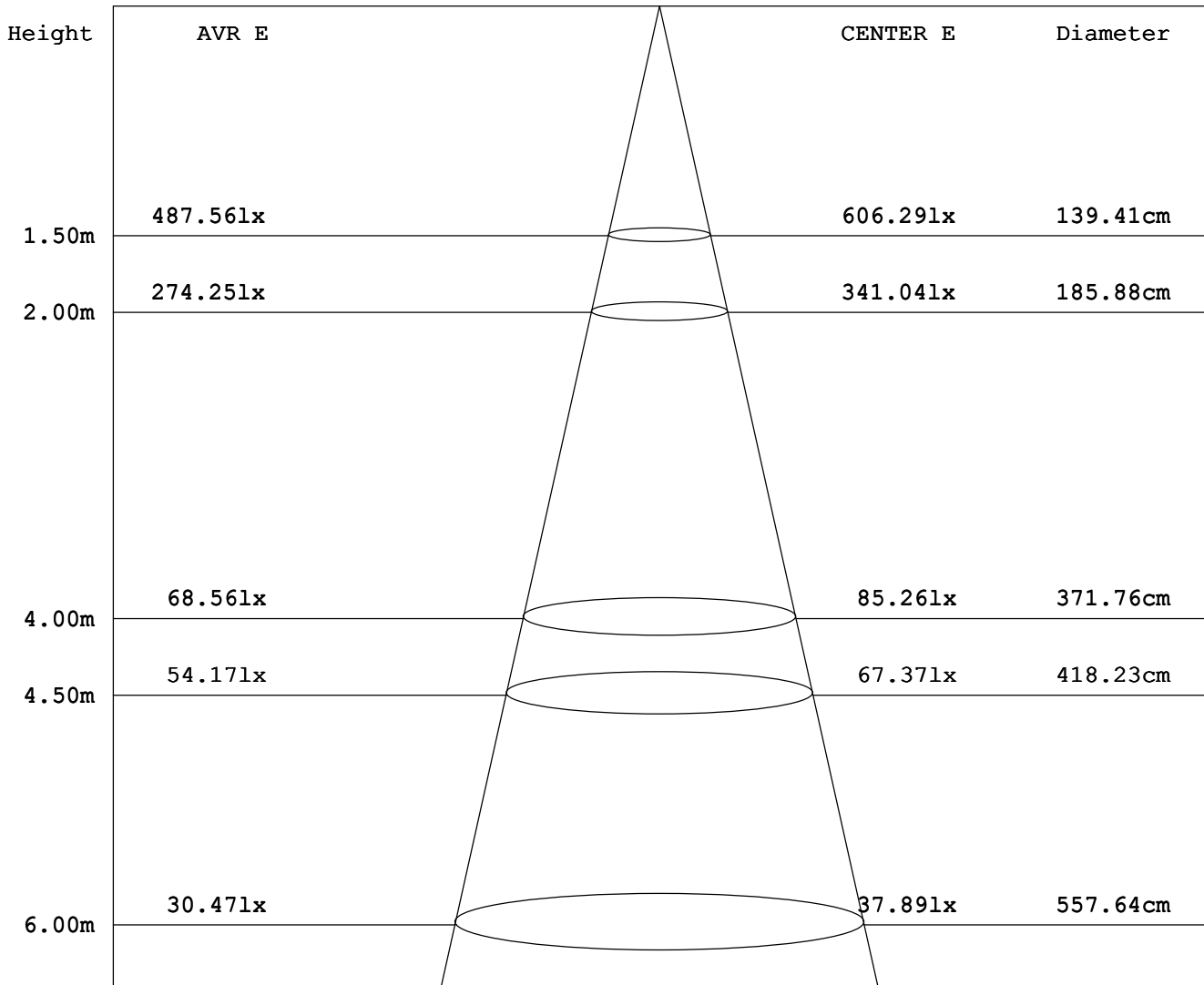
Test System:HOPOO HPG1900
Temperature:25.3DEG
Operators:

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

AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER:	Address:	
NAME: STL-W50-60.120	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:

MANUFACTURER:	Address:	
NAME: STL-W50-60.120	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	zone	total
5.0	1369	1343	1335	1309	1355	1328	1312	1309	0- 5	31.87	31.87
10.0	1340	1326	1307	1293	1333	1301	1282	1286	5- 10	94.33	126.2
15.0	1325	1305	1274	1265	1301	1277	1237	1254	10- 15	153.2	279.4
20.0	1305	1275	1238	1246	1285	1255	1200	1222	15- 20	208.0	487.5
25.0	1268	1266	1215	1228	1250	1238	1172	1216	20- 25	260.8	748.4
30.0	1251	1266	1235	1235	1233	1248	1238	1214	25- 30	312.3	1061
35.0	1296	1294	1346	1268	1267	1303	1450	1290	30- 35	373.6	1434
40.0	1285	1369	1500	1341	1291	1434	1833	1409	35- 40	454.2	1889
45.0	1259	1426	1732	1437	1265	1539	2125	1577	40- 45	547.2	2436
50.0	1214	1437	1879	1492	1204	1617	2289	1636	45- 50	631.6	3068
55.0	1176	1394	2022	1460	1149	1531	2331	1566	50- 55	688.7	3756
60.0	931.1	1268	2188	1333	949.0	1309	2546	1338	55- 60	703.1	4460
65.0	505.9	954.0	2242	1095	482.9	907.2	2096	1049	60- 65	638.8	5098
70.0	52.37	491.4	890.4	611.2	101.1	336.1	650.7	442.8	65- 70	387.5	5486
75.0	19.73	194.6	306.9	273.3	14.87	132.6	35.67	145.7	70- 75	146.2	5632
80.0	28.38	31.28	20.76	32.21	21.46	21.62	13.18	25.01	75- 80	39.60	5672
85.0	7.762	19.57	17.91	20.34	4.723	15.36	8.884	18.96	80- 85	10.84	5683
90.0	5.611	14.33	11.73	14.44	2.478	10.17	8.651	12.32	85- 90	7.654	5690
95.0	4.956	6.944	7.435	6.967	2.992	5.728	8.791	6.500	90- 95	4.394	5695
100.0	5.377	5.821	7.294	6.219	3.647	5.775	8.323	6.149	95-100	3.279	5698
105.0	5.938	6.780	8.838	7.388	4.535	6.429	9.539	6.570	100-105	3.437	5701
110.0	6.780	7.809	11.41	8.347	5.518	7.224	10.33	7.435	105-110	3.887	5705
115.0	7.575	8.580	10.66	8.791	6.219	7.832	10.66	8.019	110-115	4.157	5710
120.0	8.183	9.095	10.94	9.259	6.967	8.370	10.89	8.393	115-120	4.226	5714
125.0	8.651	9.422	11.17	9.609	7.528	9.329	11.12	9.142	120-125	4.243	5718
130.0	9.118	9.820	11.26	9.796	8.276	9.492	11.36	9.656	125-130	4.187	5722
135.0	9.679	10.19	11.45	10.03	8.744	9.843	11.50	9.937	130-135	4.019	5726
140.0	9.960	10.42	11.64	10.35	9.446	10.26	11.83	10.26	135-140	3.810	5730
145.0	10.24	10.68	11.45	10.54	9.913	10.52	11.83	10.42	140-145	3.521	5734
150.0	10.70	10.66	11.12	10.54	10.42	10.61	11.59	10.45	145-150	3.141	5737
155.0	10.94	10.82	10.94	10.49	10.66	10.73	11.22	10.54	150-155	2.711	5739
160.0	11.08	10.66	10.70	10.56	10.89	10.75	11.12	10.61	155-160	2.254	5742
165.0	11.50	10.77	10.75	10.59	10.94	10.87	11.12	10.59	160-165	1.777	5743
170.0	11.45	10.73	10.56	10.45	10.98	10.66	10.66	10.54	165-170	1.280	5745
175.0	11.26	10.49	10.42	10.26	10.84	10.45	10.61	10.31	170-175	0.761	5745
180.0	11.08	10.45	10.33	10.26	11.03	10.42	10.66	10.14	175-180	0.251	5746
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:

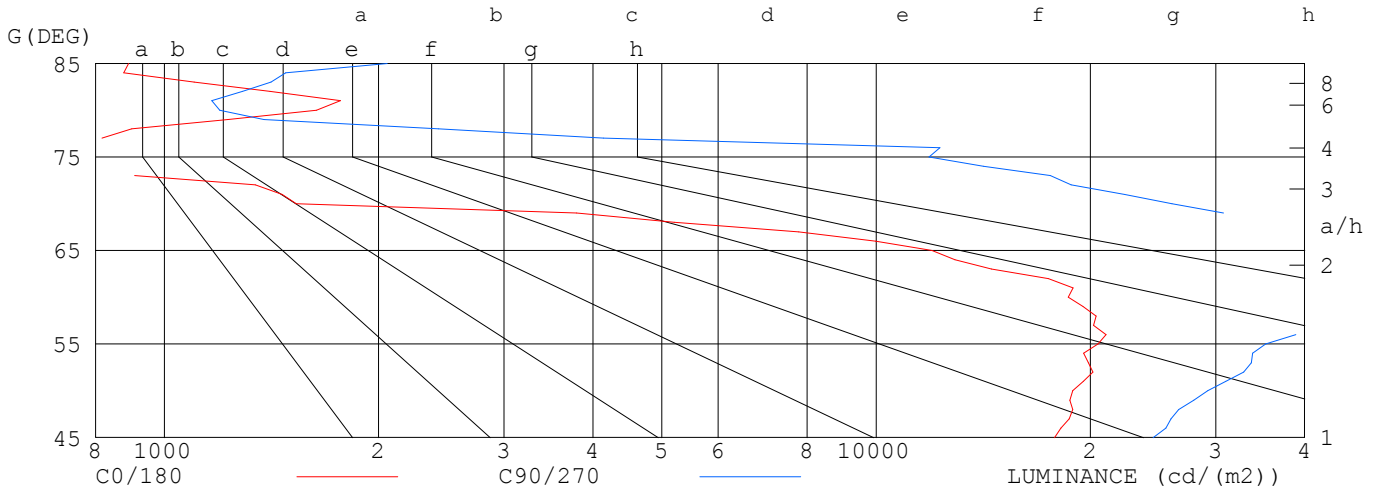
LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER:		Address:	
NAME: STL-W50-60.120		TYPE:	WEIGHT:
SPECIFICATION:		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



G (DEG)	LUMINANCE cd/ (m2)	
	C0/180	C90/270
85	891	2055
80	1635	1196
75	762	11861
70	1531	26035
65	11972	53049
60	18624	43756
55	20499	35256
50	18887	29232
45	17802	24499

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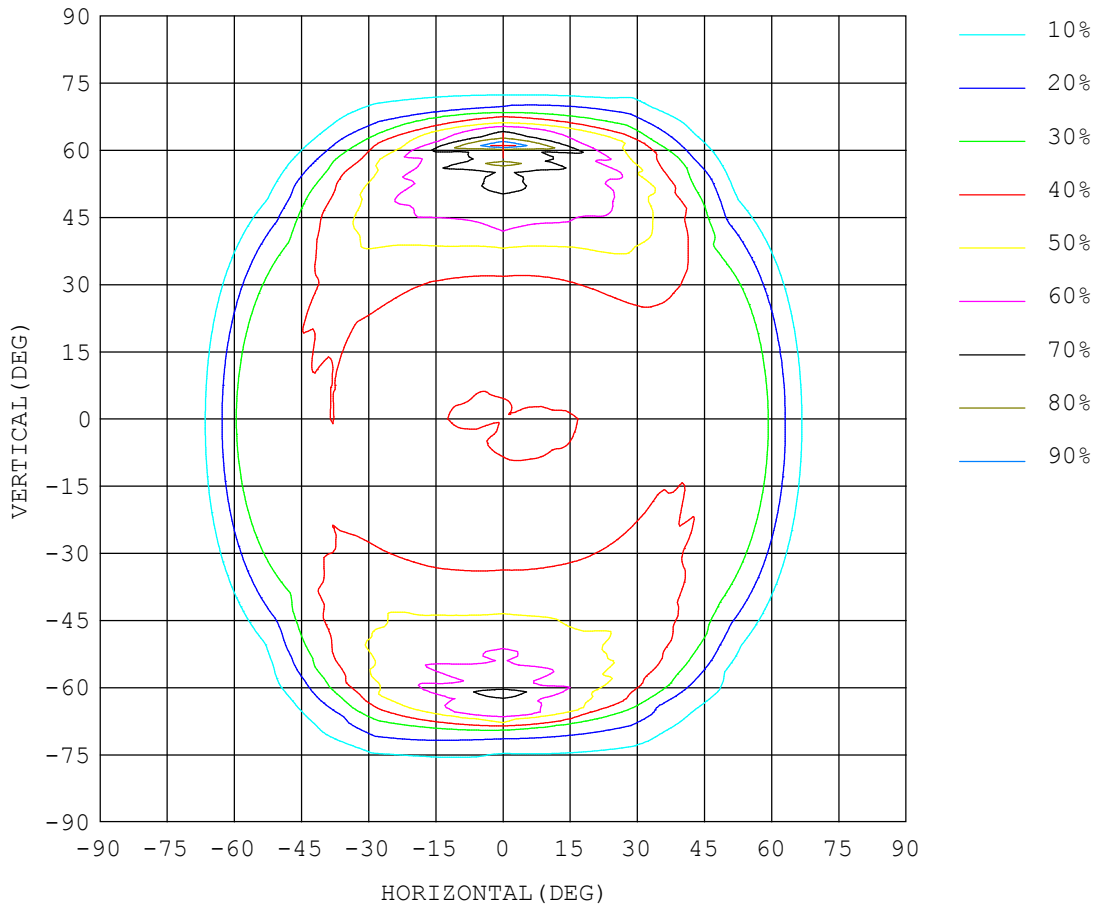
HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:	Address:	
NAME: STL-W50-60.120	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

UNIT: cd



Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:

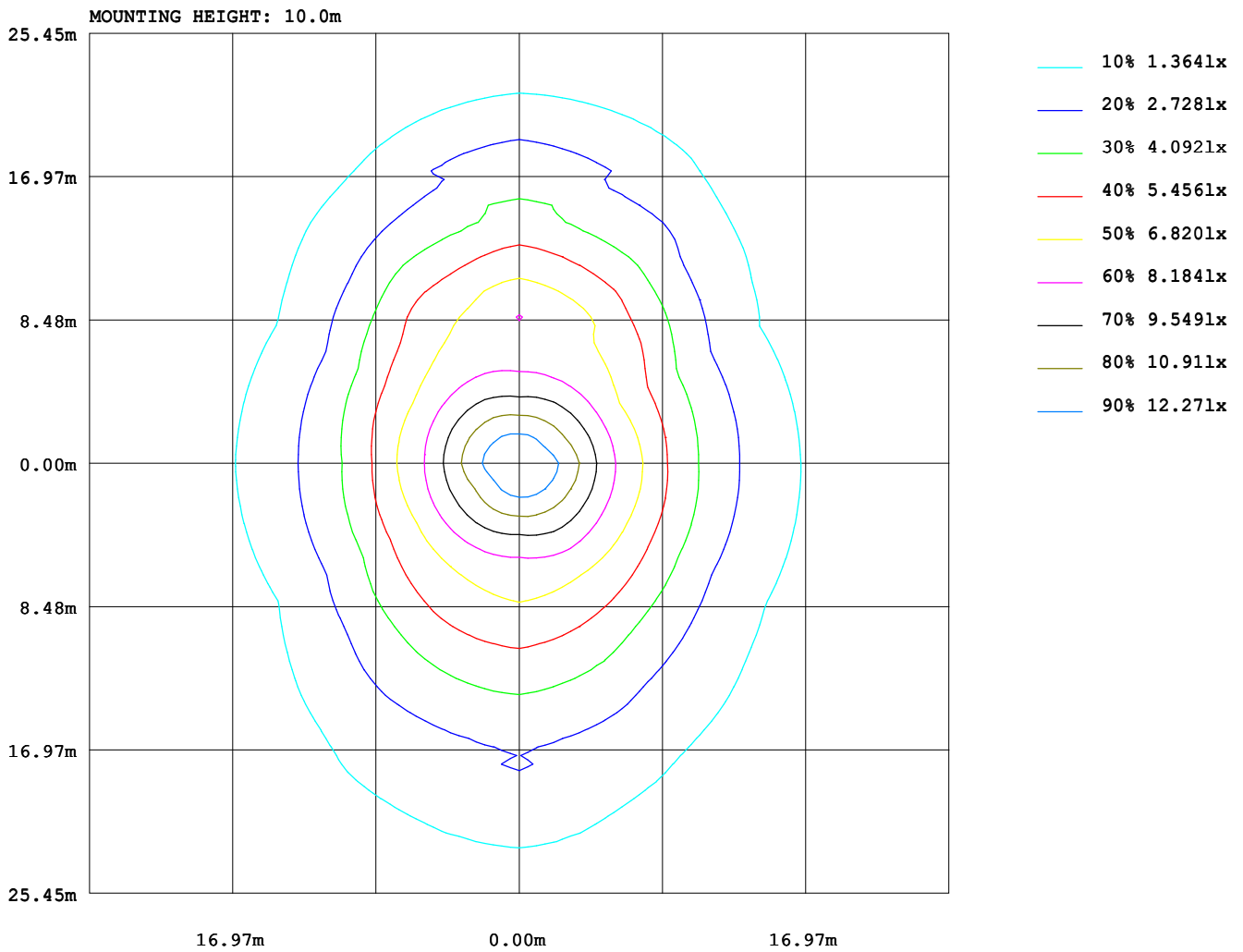
Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:6.760 m
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Report number:

MANUFACTURER:	Address:	
NAME: STL-W50-60.120	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-W50-60.120				TYPE:								WEIGHT:							
SPECIFICATION:				DIMENSION:								SERIAL No.:							

		AREA FLUX DIAGRAM																UNIT:lm		Φt	Φa		
90		0.01	0.05	0.13	0.22	0.31	0.39	0.43	0.39	0.33	0.35	0.44	0.51	0.48	0.38	0.28	0.17	0.08	0.02	4.96	0.00		
80		0.01	0.07	0.19	0.34	0.63	1.86	3.61	4.61	5.02	5.40	5.57	4.80	2.61	0.87	0.39	0.23	0.09	0.02	36.3	15.0		
70		0.01	0.10	0.27	0.69	4.05	13.2	27.0	41.7	55.0	56.2	45.1	32.4	16.6	5.13	0.83	0.31	0.12	0.02	299	288		
60		0.01	0.14	0.31	2.07	13.3	31.9	49.4	62.5	70.9	71.5	64.3	52.5	34.7	14.8	2.26	0.32	0.17	0.02	472	466		
50		0.02	0.16	0.70	6.71	22.0	38.5	51.0	57.0	61.6	62.0	58.2	51.9	39.1	22.2	6.66	0.70	0.18	0.03	479	474		
40		0.02	0.16	2.08	12.7	25.8	37.2	42.3	43.4	44.3	44.4	43.9	42.8	36.8	25.2	12.6	2.00	0.18	0.03	417	413		
30		0.03	0.17	3.92	17.0	27.5	33.9	35.9	36.6	36.5	36.2	36.0	35.3	32.7	26.8	16.9	3.85	0.19	0.04	380	378		
		0.03	0.20	5.49	19.1	27.8	32.3	34.3	36.7	37.8	37.4	36.0	33.6	31.6	27.3	19.0	5.58	0.22	0.04	385	383		
		0.03	0.24	6.40	19.9	27.4	31.7	34.5	37.9	39.9	39.5	37.6	34.6	31.7	27.3	19.9	6.60	0.23	0.04	396	394		
		0.03	0.25	6.46	19.8	27.2	31.6	34.3	37.4	39.6	40.4	38.5	34.9	32.0	27.4	19.9	6.71	0.24	0.04	397	395		
		0.03	0.24	5.67	19.1	27.3	31.6	33.9	36.4	38.3	38.8	37.5	34.7	32.4	27.6	19.3	5.90	0.25	0.04	390	387		
-30		0.03	0.19	4.25	17.0	26.9	32.5	34.9	36.4	37.2	37.6	37.3	35.8	33.2	27.2	17.6	4.34	0.20	0.03	383	380		
-40		0.02	0.17	2.55	13.1	25.2	34.8	39.1	40.1	40.8	41.0	40.4	39.1	34.6	25.6	14.0	2.52	0.17	0.03	394	390		
-50		0.02	0.16	1.15	7.66	22.3	36.5	45.4	49.1	50.8	50.4	47.7	43.1	34.9	22.7	8.22	1.11	0.16	0.02	422	417		
-60		0.02	0.14	0.38	3.55	16.5	34.3	48.7	56.4	61.2	60.2	53.4	44.0	31.3	15.2	3.43	0.34	0.15	0.02	430	424		
-70		0.02	0.11	0.28	1.27	7.91	21.3	36.9	48.2	57.1	55.6	43.9	30.5	16.7	6.12	0.97	0.26	0.11	0.02	328	319		
-80		0.01	0.08	0.21	0.46	1.72	5.34	9.59	10.9	11.0	10.2	9.02	6.91	3.65	1.18	0.36	0.18	0.08	0.02	71.1	49.6		
-90		0.01	0.07	0.17	0.29	0.41	0.56	0.66	0.65	0.60	0.61	0.67	0.68	0.57	0.40	0.25	0.15	0.07	0.02	6.83	0.00		
		-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)				20	30	40	50	60	70	80	90		
Φt		0.36	2.70	40.6	161	305	450	563	637	689	688	636	559	446	304	163	41.3	2.90	0.51	5746			
Φa		0.00	0.00	26.9	151	295	443	557	632	684	683	630	553	439	295	153	29.6	0.00	0.00		5577		

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:

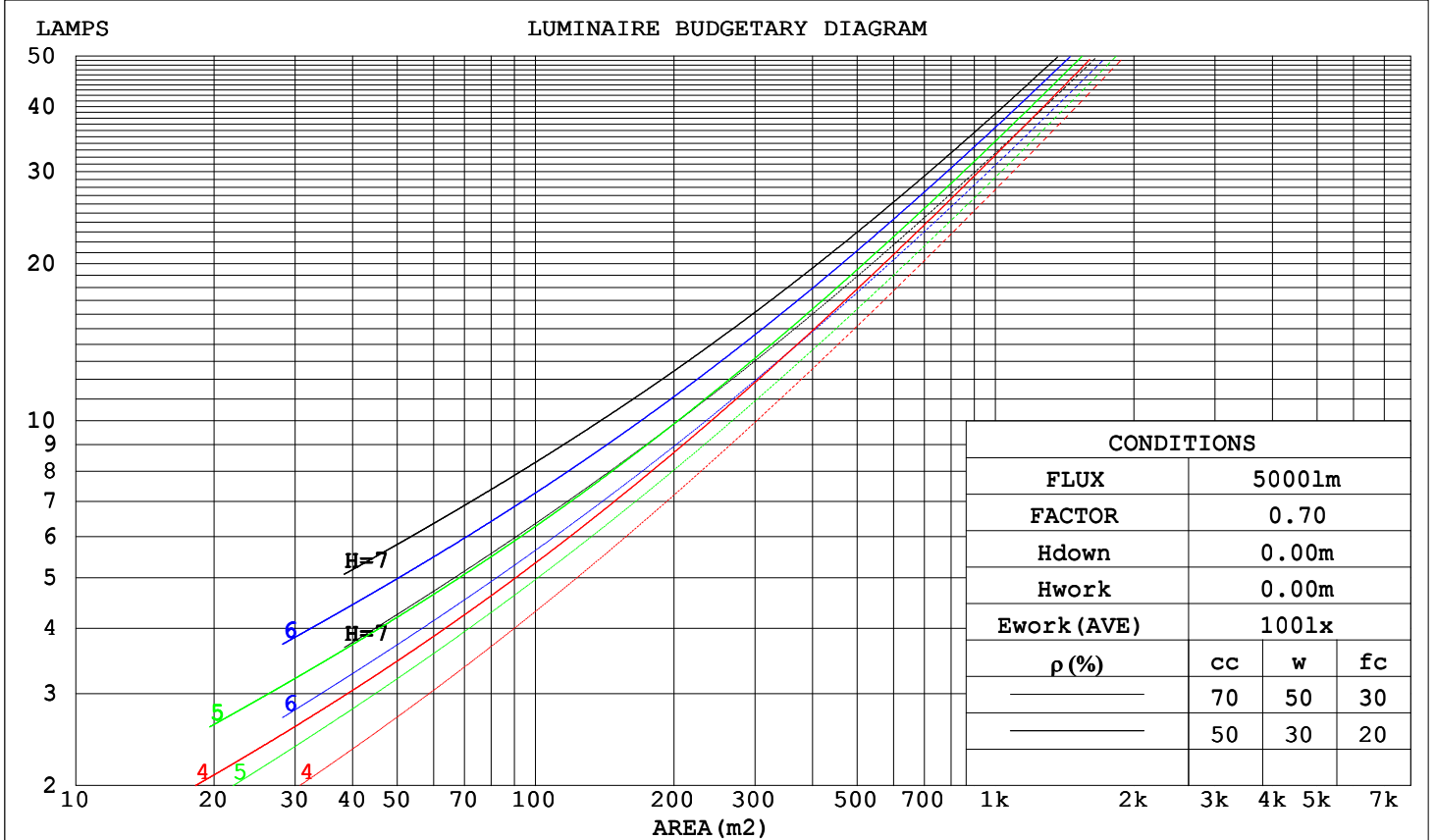
HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER:				Address:							
NAME: STL-W50-60.120				TYPE:				WEIGHT:			
SPECIFICATION:				DIMENSION:				SERIAL No.:			

pcc	80%			70%			50%			30%			10%			0
p _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
p _{fc}	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-W50-60.120				TYPE:						WEIGHT:					
SPECIFICATION:				DIMENSION:						SERIAL No.:					

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	.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	

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	.198	.198	.198	.169	.169	.169	.115	.115	.115	.066	.066	.066	.021	.021	.021	
1.0	.187	.164	.142	.160	.140	.122	.110	.097	.085	.063	.056	.049	.020	.018	.016	
2.0	.180	.139	.105	.155	.120	.091	.106	.083	.063	.061	.048	.037	.020	.016	.012	
3.0	.174	.122	.080	.149	.105	.070	.102	.073	.049	.059	.043	.029	.019	.014	.009	
4.0	.168	.109	.064	.144	.094	.055	.099	.066	.039	.057	.038	.023	.018	.012	.008	
5.0	.161	.099	.053	.138	.085	.046	.095	.060	.032	.055	.035	.019	.018	.011	.006	
6.0	.154	.091	.045	.132	.078	.039	.091	.055	.028	.053	.032	.016	.017	.011	.005	
7.0	.147	.084	.039	.127	.073	.034	.088	.051	.024	.051	.030	.014	.016	.010	.005	
8.0	.141	.078	.035	.121	.068	.030	.084	.048	.022	.049	.028	.013	.016	.009	.004	
9.0	.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-W50-60.120					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	23.3	24.9	23.5	25.1	25.3	27.1	28.7	27.4	28.9	29.2
3H	23.4	24.9	23.7	25.1	25.4	29.2	30.7	29.5	31.0	31.2
4H	23.3	24.7	23.6	25.0	25.3	29.3	30.7	29.6	31.0	31.3
6H	23.2	24.5	23.5	24.8	25.1	29.2	30.5	29.6	30.8	31.1
8H	23.1	24.4	23.5	24.7	25.0	29.2	30.4	29.5	30.7	31.0
12H	23.1	24.3	23.5	24.6	25.0	29.1	30.3	29.5	30.6	31.0
4H 2H	24.3	25.7	24.6	26.0	26.3	27.4	28.8	27.7	29.0	29.3
3H	24.4	25.7	24.8	26.0	26.3	29.5	30.7	29.8	31.0	31.3
4H	24.3	25.4	24.7	25.8	26.1	29.6	30.7	30.0	31.1	31.4
6H	24.2	25.2	24.7	25.6	26.0	29.5	30.5	29.9	30.9	31.3
8H	24.2	25.1	24.6	25.5	25.9	29.5	30.4	29.9	30.8	31.2
12H	24.2	25.0	24.6	25.4	25.8	29.4	30.3	29.9	30.7	31.1
8H 4H	24.5	25.4	24.9	25.8	26.2	29.5	30.4	29.9	30.8	31.2
6H	24.4	25.2	24.9	25.6	26.0	29.4	30.2	29.9	30.6	31.1
8H	24.4	25.0	24.9	25.5	26.0	29.4	30.1	29.9	30.5	31.0
12H	24.4	24.9	24.9	25.4	25.9	29.4	29.9	29.9	30.4	30.9
12H 4H	24.5	25.3	24.9	25.7	26.1	29.5	30.3	29.9	30.7	31.1
6H	24.4	25.0	24.9	25.5	26.0	29.4	30.1	29.9	30.5	31.0
8H	24.4	24.9	24.9	25.4	25.9	29.4	29.9	29.9	30.4	30.9
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 5746 lm Total Lamp Luminous Flux. (8log(F/F0) = 6.1)

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-W50-60.120	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			

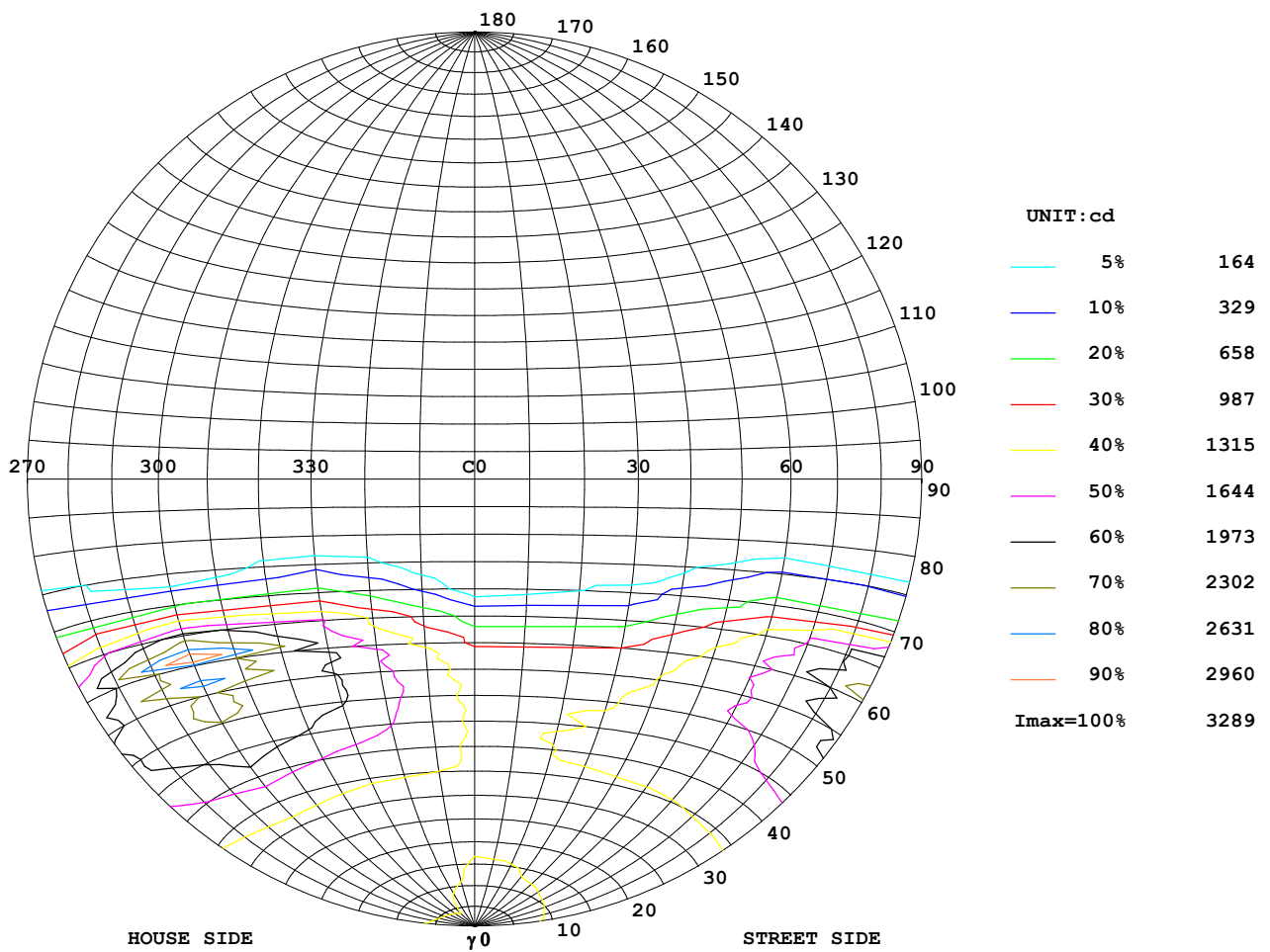
Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:

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-W50-60.120	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:

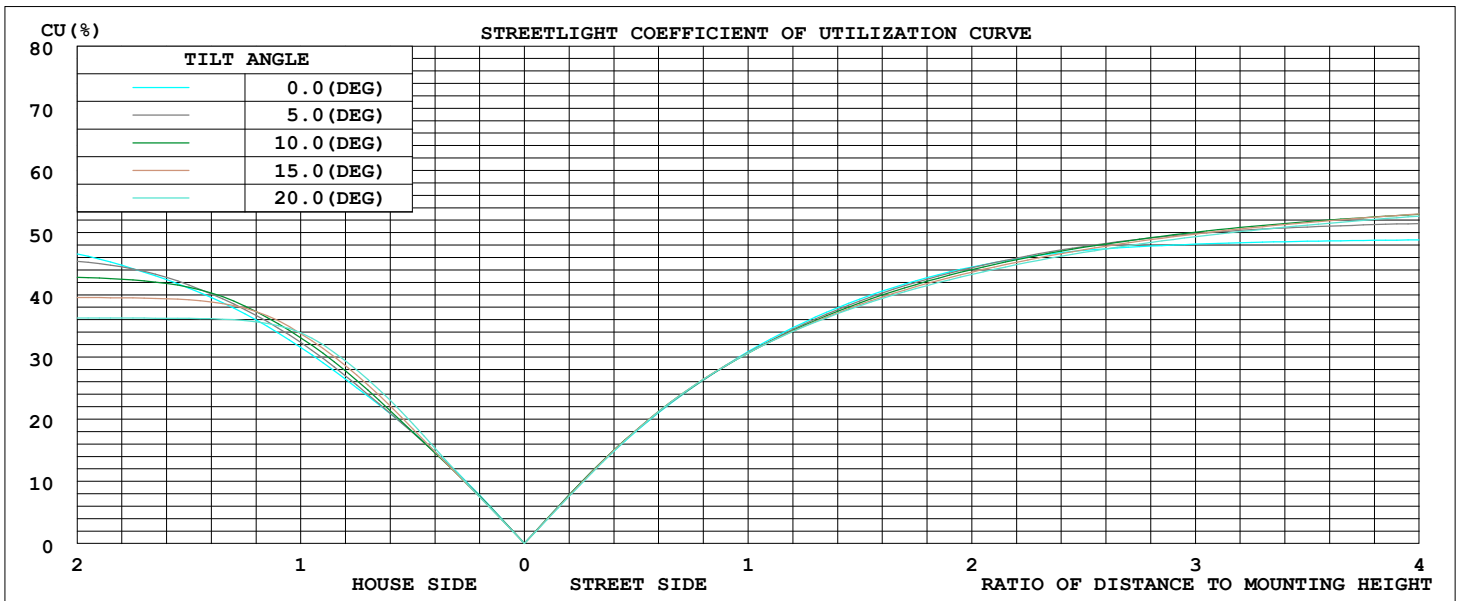
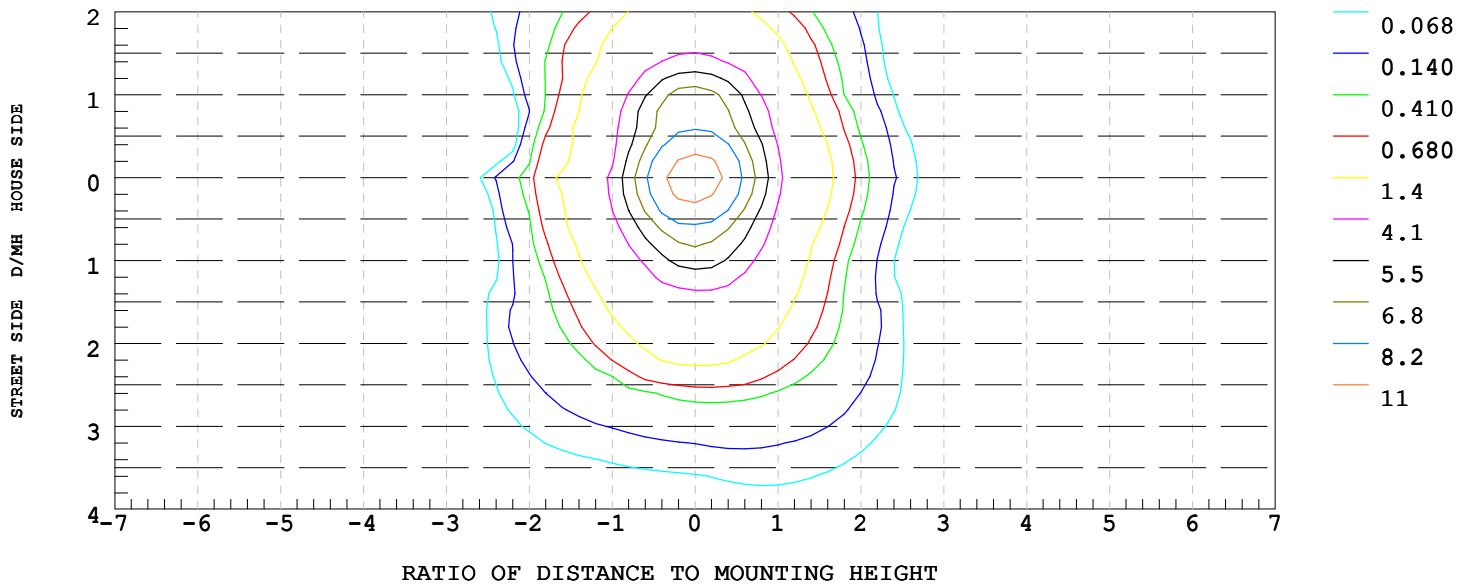
HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Report number:

MANUFACTURER:	Address:	
NAME: STL-W50-60.120	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

ILLUMINANCE AT MH=10 m, Enadir = 13.64 lx



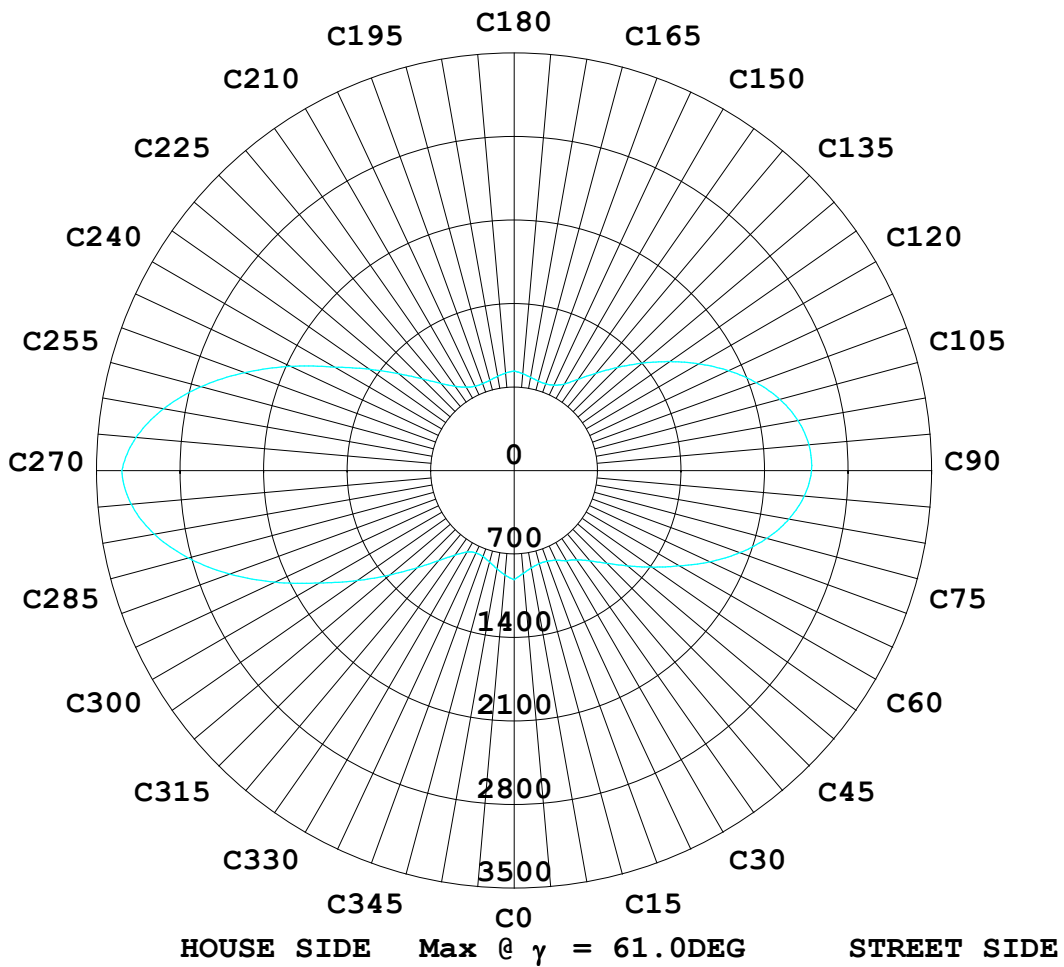
Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:

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-W50-60.120	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:

MANUFACTURER:	Address:	
NAME: STL-W50-60.120	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

UNIT: cd

γ (DEG)	C (DEG)											
	0	30	60	90	120	150	180	210	240	270	300	330
0.0	1364	1352	1343	1333	1323	1311	1364	1352	1343	1333	1323	1311
5.0	1369	1346	1339	1335	1319	1300	1355	1337	1319	1312	1309	1308
10.0	1340	1333	1318	1307	1298	1288	1333	1304	1298	1282	1287	1286
15.0	1325	1313	1297	1274	1276	1255	1301	1289	1265	1237	1244	1265
20.0	1305	1281	1269	1238	1245	1247	1285	1273	1236	1200	1212	1232
25.0	1268	1265	1268	1215	1233	1224	1250	1250	1225	1172	1200	1232
30.0	1251	1256	1276	1235	1235	1235	1233	1242	1253	1238	1221	1208
35.0	1296	1279	1310	1346	1291	1244	1267	1273	1333	1450	1352	1228
40.0	1285	1329	1410	1500	1395	1286	1291	1337	1530	1833	1531	1286
45.0	1259	1323	1530	1732	1566	1308	1265	1345	1733	2125	1855	1300
50.0	1214	1289	1584	1879	1710	1273	1204	1304	1930	2289	2000	1273
55.0	1176	1181	1607	2022	1796	1124	1149	1174	1888	2331	1993	1138
60.0	931	985	1552	2188	1746	920	949	899	1718	2546	1792	885
65.0	506	547	1361	2242	1691	499	483	450	1364	2096	1663	435
70.0	52.3	212	771	890	1015	207	101	107	566	651	764	122
75.0	19.7	24.0	365	307	518	29.1	14.8	23.9	241	35.6	267	24.6
80.0	28.3	19.0	43.4	20.7	42.4	22.0	21.4	21.5	21.6	13.1	26.6	23.4
85.0	7.76	13.7	25.3	17.9	23.2	17.4	4.72	13.9	16.7	8.88	20.6	17.3
90.0	5.61	10.8	17.8	11.7	16.6	12.2	2.47	8.74	11.5	8.65	13.1	11.5
95.0	4.95	4.53	9.35	7.43	9.86	4.06	2.99	4.95	6.50	8.79	7.24	5.75
100.0	5.37	3.97	7.66	7.29	8.08	4.34	3.64	5.47	6.07	8.32	6.82	5.47
105.0	5.93	5.05	8.51	8.83	9.39	5.37	4.53	6.12	6.73	9.53	6.78	6.35
110.0	6.78	6.07	9.53	11.4	10.3	6.31	5.51	6.96	7.48	10.3	7.57	7.29
115.0	7.57	7.01	10.1	10.6	10.4	7.10	6.21	7.62	8.04	10.6	8.13	7.90
120.0	8.18	7.71	10.4	10.9	10.7	7.80	6.96	8.13	8.60	10.8	8.65	8.13
125.0	8.65	8.13	10.7	11.1	10.8	8.32	7.52	9.39	9.25	11.1	9.53	8.74
130.0	9.11	8.60	11.0	11.2	10.9	8.60	8.27	9.63	9.35	11.3	9.63	9.67
135.0	9.67	9.07	11.3	11.4	11.0	9.02	8.74	10.0	9.63	11.5	10.0	9.82
140.0	9.96	9.44	11.4	11.6	11.3	9.39	9.44	10.4	10.1	11.8	10.3	10.1
145.0	10.2	9.86	11.5	11.4	11.3	9.72	9.91	10.7	10.2	11.8	10.5	10.2
150.0	10.7	10.0	11.3	11.1	11.1	9.91	10.4	10.8	10.3	11.5	10.4	10.4
155.0	10.9	10.3	11.3	10.9	10.9	10.0	10.6	11.0	10.3	11.2	10.5	10.5
160.0	11.0	10.3	10.9	10.7	10.9	10.1	10.8	11.0	10.4	11.1	10.5	10.7
165.0	11.5	10.6	10.8	10.7	10.7	10.4	10.9	11.2	10.4	11.1	10.3	10.8
170.0	11.4	10.7	10.7	10.5	10.6	10.2	10.9	11.0	10.2	10.6	10.2	10.8
175.0	11.2	10.4	10.5	10.4	10.4	10.1	10.8	10.7	10.1	10.6	10.1	10.4
180.0	11.0	10.4	10.4	10.3	10.3	10.1	11.0	10.7	10.1	10.6	10.0	10.2

Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:

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