

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

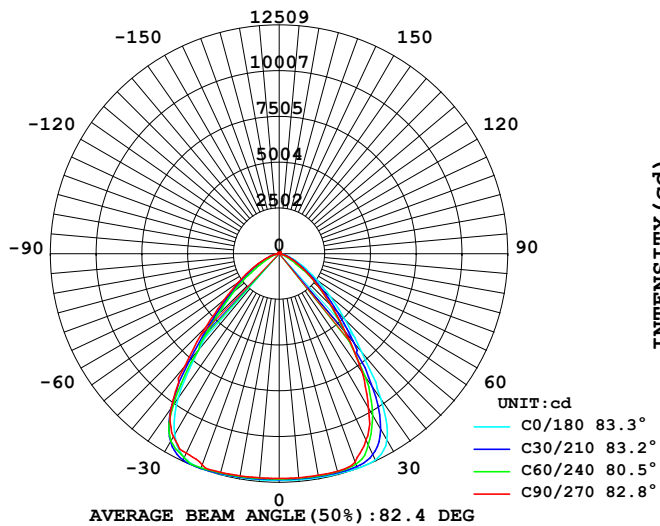
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

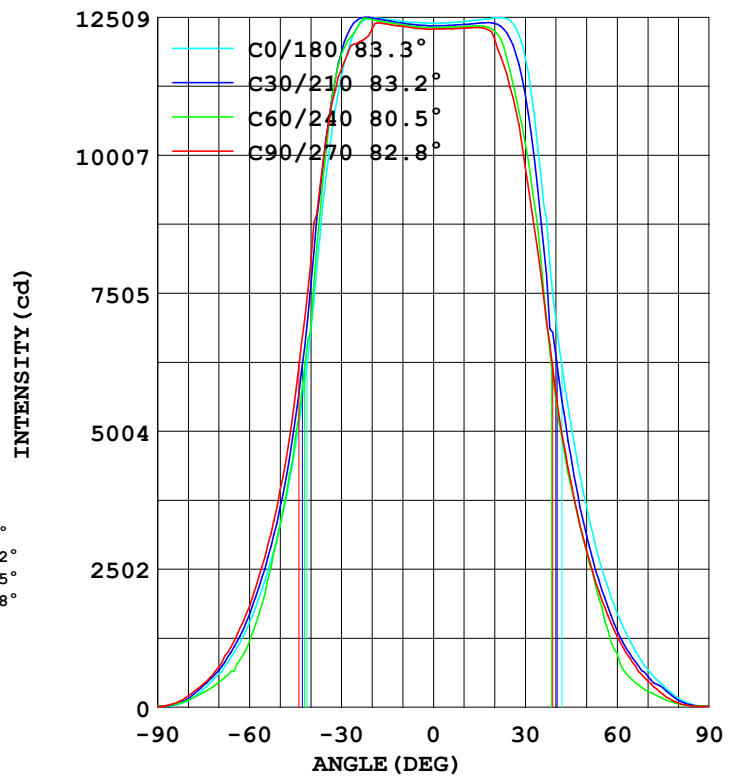
MANUFACTURER:		Address:	
NAME:		TYPE:UFO	WEIGHT:
SPECIFICATION:156W		DIMENSION:	SERIAL No.:

DATA OF LAMP		Imax (cd)	12509	S/MH (C0/180)	1.19
MODEL		EFFICIENCY (%)	100.0	S/MH (C90/270)	1.25
NOMINAL POWER (W)	158	TOTAL FLUX (lm)	23146	Voltage (V)	219.8
RATED VOLTAGE (V)	220	EFFICIENCY (lm/W)	148.1	Current (A)	0.724
NOMINAL FLUX (lm)	23145.7	η up (%)	1.4	Power (W)	156.3
LAMPS QUANTITY	1	η down (%)	98.6	Power Factor (PF)	0.981
TEST VOLTAGE (V)	219.9	Effective Flux (lm)	0.0	EET	0.000

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2018-03-14

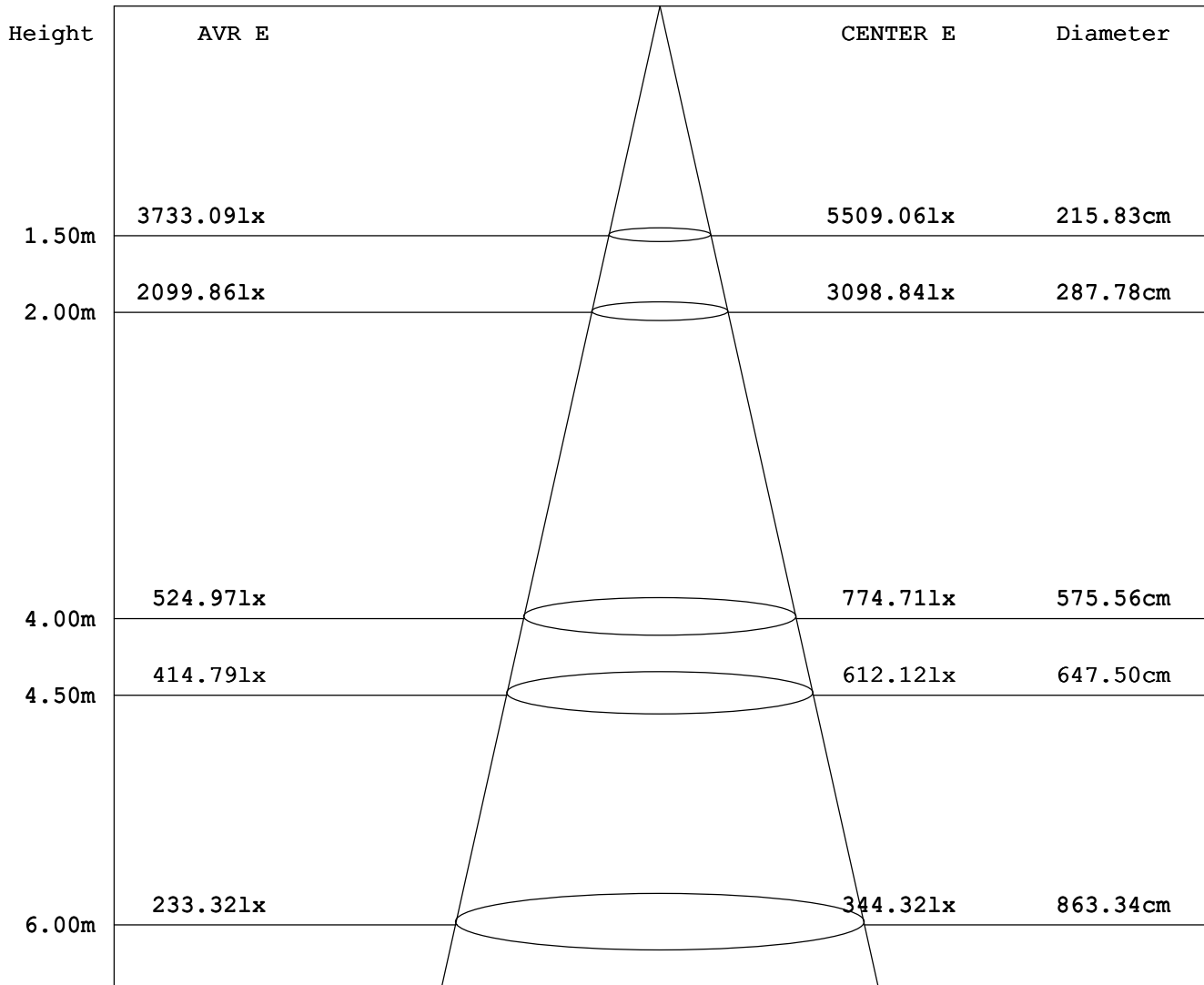
Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:6.000 m
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER:	Address:	
NAME:	TYPE:UFO	WEIGHT:
SPECIFICATION:156W	DIMENSION:	SERIAL No.:



Angle:71.5deg

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2018-03-14

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:6.000 m
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER:	Address:	
NAME:	TYPE: UFO	WEIGHT:
SPECIFICATION: 156W	DIMENSION:	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	zone	total
5.0	1241	1235	1230	1228	1241	1235	1230	1227	0- 5	294.5	294.5
10.0	1243	1238	1234	1231	1243	1236	1231	1229	5- 10	882.7	1177
15.0	1247	1243	1238	1235	1246	1238	1232	1232	10- 15	1467	2644
20.0	1250	1248	1230	1240	1250	1233	1212	1228	15- 20	2042	4686
25.0	1231	1238	1203	1227	1245	1184	1125	1172	20- 25	2566	7252
30.0	1144	1186	1157	1176	1178	1067	979.3	1033	25- 30	2948	10200
35.0	960.8	1020	1030	997.5	970.8	853.4	790.0	801.6	30- 35	3029	13228
40.0	683.4	722.4	804.6	699.9	704.3	598.2	568.4	574.6	35- 40	2642	15870
45.0	473.8	505.3	565.8	495.1	508.6	425.0	406.1	415.7	40- 45	2080	17950
50.0	328.5	345.7	393.0	342.5	363.8	296.2	283.9	287.9	45- 50	1590	19540
55.0	229.4	228.1	272.3	224.1	252.3	197.8	194.6	186.2	50- 55	1175	20714
60.0	154.1	144.2	183.0	141.9	170.2	118.5	129.3	112.9	55- 60	812.6	21527
65.0	99.45	87.73	120.4	93.23	112.0	69.43	81.60	67.21	60- 65	539.1	22066
70.0	61.10	56.17	72.94	59.77	68.55	43.14	47.90	42.09	65- 70	354.2	22420
75.0	33.29	33.53	42.93	36.18	39.68	25.37	23.40	23.47	70- 75	220.5	22641
80.0	12.15	14.58	20.41	16.21	16.72	9.358	7.858	8.622	75- 80	115.2	22756
85.0	3.171	4.555	6.120	5.232	4.615	2.743	1.958	2.462	80- 85	41.60	22798
90.0	1.987	1.888	1.465	1.990	1.659	2.032	1.767	2.044	85- 90	13.30	22811
95.0	2.361	2.192	1.796	2.291	1.962	2.260	2.055	2.237	90- 95	11.13	22822
100.0	2.844	2.548	2.260	2.651	2.318	2.476	2.412	2.458	95-100	12.70	22835
105.0	3.434	3.033	2.840	3.115	2.736	2.818	2.829	2.806	100-105	14.52	22849
110.0	4.140	3.699	3.499	3.774	3.222	3.346	3.362	3.312	105-110	16.90	22866
115.0	4.881	4.471	4.273	4.503	3.787	4.021	3.992	3.970	110-115	19.65	22886
120.0	5.652	5.290	5.083	5.293	4.460	4.764	4.705	4.703	115-120	22.43	22908
125.0	6.422	6.089	5.835	6.067	5.140	5.479	5.425	5.421	120-125	24.83	22933
130.0	7.099	6.834	6.584	6.796	5.832	6.143	6.087	6.084	125-130	26.50	22960
135.0	7.747	7.468	7.236	7.426	6.490	6.733	6.728	6.670	130-135	27.30	22987
140.0	8.301	8.047	7.894	8.004	7.074	7.205	7.315	7.149	135-140	27.21	23014
145.0	8.794	8.532	8.506	8.497	7.560	7.693	7.815	7.606	140-145	26.24	23040
150.0	9.252	9.012	9.057	8.983	8.081	8.128	8.240	8.046	145-150	24.56	23065
155.0	9.752	9.493	9.572	9.453	8.622	8.586	8.719	8.488	150-155	22.30	23087
160.0	10.26	9.981	10.10	9.921	9.205	9.120	9.298	9.016	155-160	19.52	23107
165.0	10.77	10.44	10.61	10.36	9.817	9.700	9.946	9.592	160-165	16.21	23123
170.0	11.17	10.83	11.04	10.74	10.42	10.25	10.54	10.15	165-170	12.27	23135
175.0	11.36	11.04	11.31	10.94	10.98	10.70	11.00	10.60	170-175	7.702	23143
180.0	11.28	11.00	11.34	10.89	11.35	10.99	11.28	10.89	175-180	2.629	23146
DEG	LUMINOUS INTENSITY: *10cd									UNIT: lm	

Test System: HOPOO HPG1800
 Temperature: 25.3 DEG
 Operators:
 Test Date: 2018-03-14

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity: 65.0%
 Test Distance: 6.000 m
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

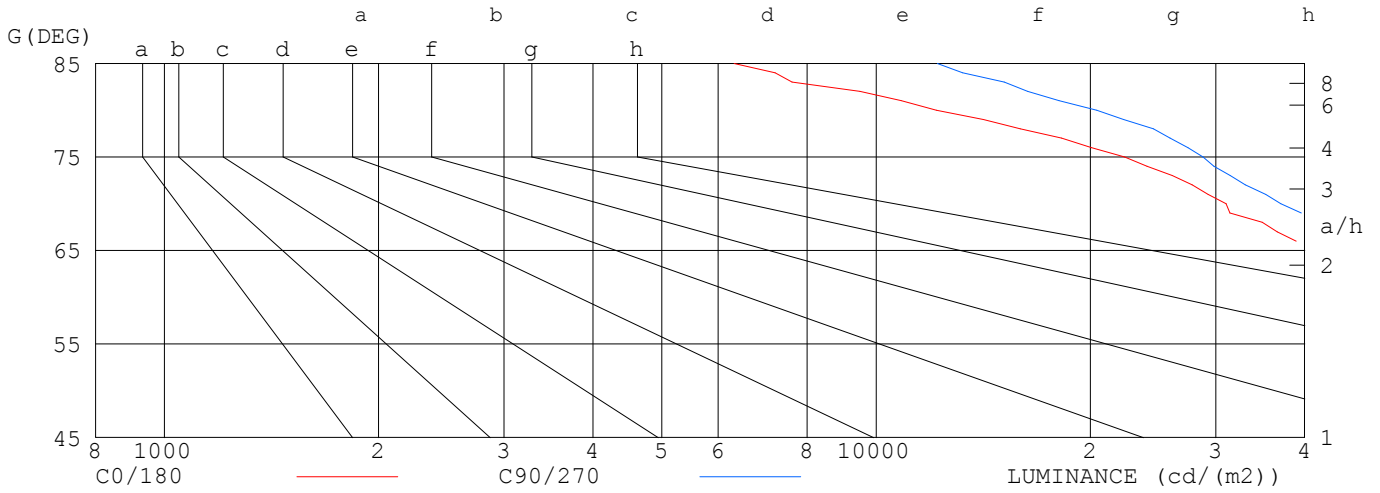
LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER:		Address:	
NAME:		TYPE:UFO	WEIGHT:
SPECIFICATION:156W		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	6318	12191
80	12151	20415
75	22332	28799
70	31016	37028
65	40857	49479
60	53508	63551
55	69449	82441
50	88740	106169
45	116339	138918

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2018-03-14

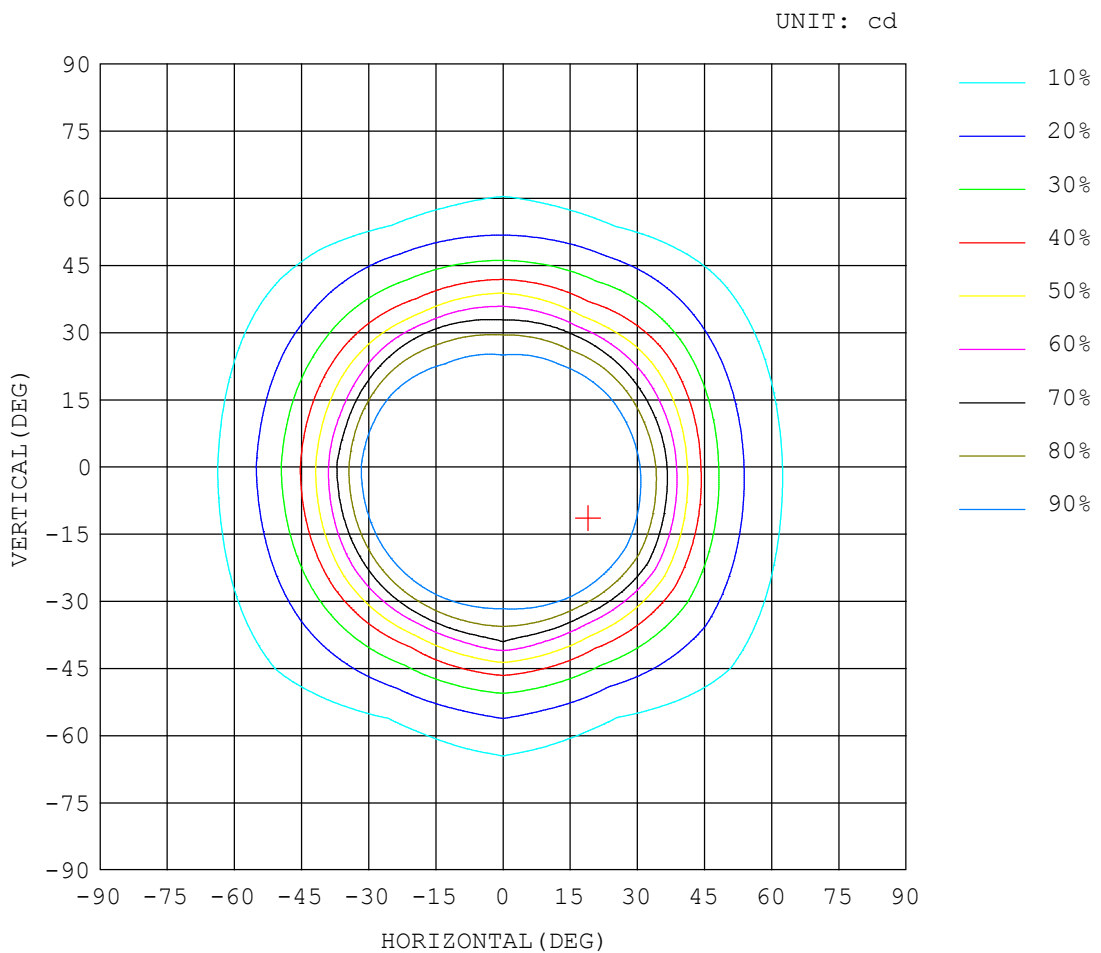
Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:6.000 m
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:	Address:	
NAME:	TYPE:UFO	WEIGHT:
SPECIFICATION:156W	DIMENSION:	SERIAL No.:



Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2018-03-14

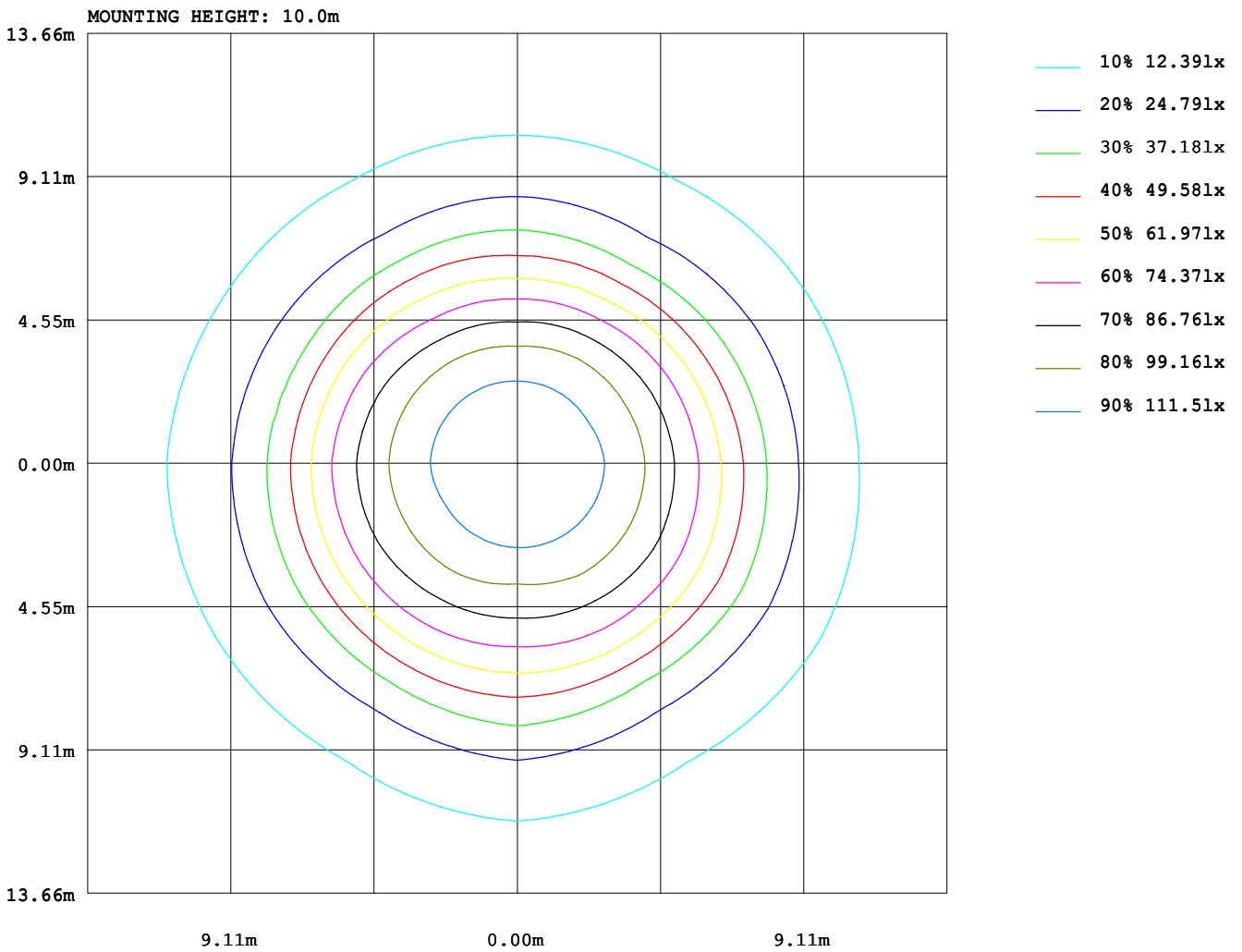
Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:6.000 m
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Report number:

MANUFACTURER:	Address:	
NAME:	TYPE:UFO	WEIGHT:
SPECIFICATION:156W	DIMENSION:	SERIAL No.:



Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2018-03-14

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:6.000 m
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

AREA LUMINOUS FLUX

Report number:

MANUFACTURER:				Address:															
NAME:				TYPE:UFO								WEIGHT:							
SPECIFICATION:156W				DIMENSION:								SERIAL No.:							

		AREA FLUX DIAGRAM																	UNIT:lm		Φ t	Φ a	
90		0.05	0.15	0.27	0.41	0.55	0.64	0.72	0.83	0.90	0.90	0.81	0.69	0.61	0.52	0.39	0.26	0.15	0.05	8.88	0.00		
80		0.05	0.24	0.72	1.57	2.57	3.18	3.87	5.52	7.01	7.00	5.50	3.81	3.01	2.35	1.43	0.62	0.20	0.05	48.7	0.00		
70		0.06	0.51	2.03	4.95	7.54	9.46	11.7	17.7	23.3	23.4	17.8	11.9	9.41	7.38	4.56	1.74	0.40	0.06	154	0.00		
60		0.09	0.96	4.09	9.10	15.2	22.5	33.0	48.2	58.1	57.8	47.4	32.4	21.9	14.4	8.79	3.65	0.76	0.07	379	231		
50		0.12	1.54	6.19	14.9	28.9	51.1	78.3	104	122	121	102	76.0	48.9	27.1	13.7	5.75	1.25	0.09	804	737		
40		0.15	2.15	8.54	22.3	48.2	89.4	141	198	234	230	188	136	87.4	45.8	20.5	7.82	1.79	0.11	1460	1419		
30		0.18	2.67	11.0	30.8	70.3	139	236	309	338	337	302	226	135	67.4	28.3	9.95	2.28	0.13	2244	2213		
		0.21	3.07	13.2	38.6	92.4	193	310	358	373	372	356	301	187	87.8	35.4	11.8	2.65	0.15	2736	2710		
		0.22	3.33	14.6	44.0	108	231	336	365	374	373	364	330	226	102	40.1	13.1	2.86	0.16	2928	2904		
		0.22	3.37	14.9	44.5	110	237	339	364	373	375	366	336	236	105	41.1	13.3	2.89	0.16	2962	2939		
		0.21	3.20	13.8	40.1	97.9	210	325	363	375	376	366	327	215	95.3	38.3	12.6	2.74	0.16	2862	2838		
-30		0.19	2.84	12.0	33.0	76.8	159	272	344	364	366	347	279	164	77.1	32.4	11.0	2.41	0.14	2543	2515		
-40		0.16	2.34	9.75	25.1	53.9	103	171	250	300	300	251	174	105	56.1	25.0	8.87	1.95	0.12	1837	1802		
-50		0.13	1.73	7.30	18.2	33.9	59.2	92.7	132	166	166	132	92.3	60.0	35.1	17.5	6.57	1.41	0.09	1022	970		
-60		0.10	1.13	4.92	11.8	20.0	29.0	41.9	62.6	79.2	78.9	61.9	41.2	28.8	19.3	10.9	4.33	0.89	0.07	498	373		
-70		0.07	0.65	2.63	6.54	10.5	13.8	17.8	26.3	34.4	34.2	25.9	17.2	13.2	9.80	5.90	2.23	0.49	0.06	222	38.4		
-80		0.05	0.31	1.07	2.44	4.10	5.51	7.16	9.95	12.4	12.3	9.77	6.90	5.15	3.69	2.10	0.86	0.24	0.05	84.2	0.00		
-90		0.05	0.15	0.33	0.60	0.90	1.16	1.47	1.87	2.21	2.20	1.83	1.41	1.07	0.78	0.50	0.28	0.15	0.05	17.0	0.00		
		-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)						20	30	40	50	60	70	80	90
Φ t		2.30	30.3	128	350	783	1556	2419	2961	3236	3232	2946	2393	1548	757	327	115	25.5	1.77	23146			
Φ a		0.00	0.00	26.2	267	709	1486	2352	2893	3170	3166	2877	2325	1479	685	243	13.3	0.00	0.00		21716		

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2018-03-14

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:6.000 m
 Remarks:

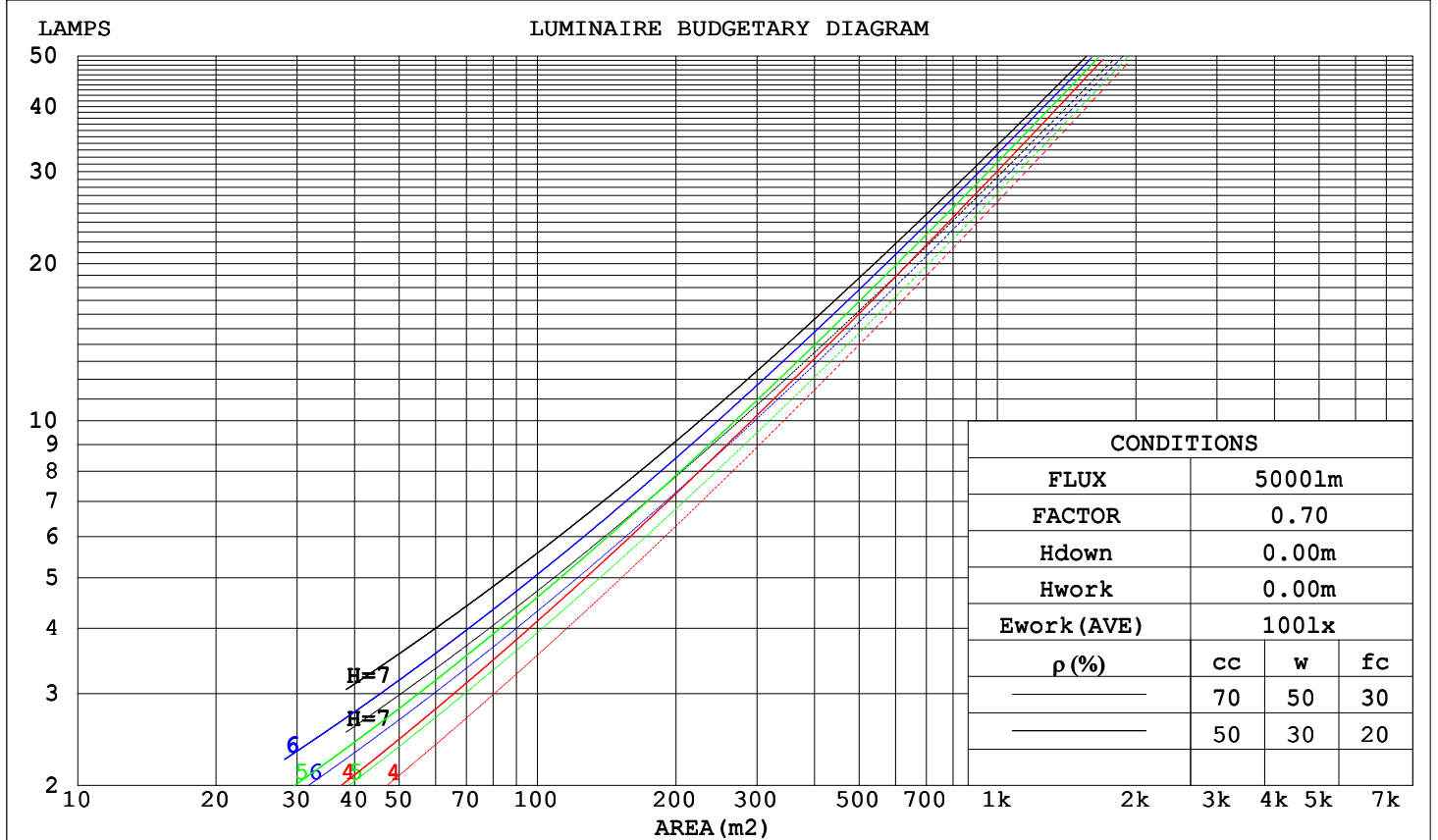
HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER:				Address:							
NAME:				TYPE:UFO				WEIGHT:			
SPECIFICATION:156W				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						Coefficients of Utilization(CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	.99
1.0	1.08	1.05	1.02	1.06	1.03	1.00	1.01	.99	.97	.97	.95	.94	.93	.92	.91	.89
2.0	.98	.92	.88	.96	.91	.87	.92	.88	.85	.89	.85	.83	.86	.83	.81	.79
3.0	.88	.82	.77	.87	.81	.76	.84	.79	.75	.81	.77	.73	.78	.75	.72	.70
4.0	.80	.73	.68	.79	.72	.67	.77	.71	.66	.74	.69	.65	.72	.68	.64	.63
5.0	.73	.66	.61	.72	.65	.60	.70	.64	.59	.68	.63	.59	.66	.62	.58	.56
6.0	.67	.60	.54	.66	.59	.54	.64	.58	.54	.63	.57	.53	.61	.56	.53	.51
7.0	.62	.54	.49	.61	.54	.49	.59	.53	.49	.58	.52	.48	.57	.52	.48	.46
8.0	.57	.50	.45	.56	.49	.45	.55	.49	.44	.54	.48	.44	.53	.47	.44	.42
9.0	.53	.46	.41	.52	.45	.41	.51	.45	.40	.50	.44	.40	.49	.44	.40	.38
10.0	.49	.42	.38	.49	.42	.37	.48	.41	.37	.47	.41	.37	.46	.41	.37	.35



Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2018-03-14

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:6.000 m
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

WEC AND CCEC

Report number:

MANUFACTURER:				Address:											
NAME:				TYPE:UFO						WEIGHT:					
SPECIFICATION:156W				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	.227	.129	.041	.220	.125	.040	.206	.118	.038	.193	.112	.036	.182	.105	.034	
2.0	.220	.121	.037	.214	.118	.036	.202	.112	.035	.191	.107	.034	.181	.103	.032	
3.0	.210	.112	.033	.204	.109	.033	.194	.105	.032	.185	.101	.031	.176	.097	.030	
4.0	.199	.103	.030	.194	.102	.030	.185	.098	.029	.176	.095	.029	.169	.092	.028	
5.0	.188	.096	.028	.184	.094	.027	.176	.091	.027	.168	.089	.026	.161	.086	.026	
6.0	.178	.089	.026	.174	.088	.025	.167	.086	.025	.160	.083	.024	.154	.081	.024	
7.0	.168	.083	.024	.165	.082	.023	.159	.080	.023	.152	.078	.023	.147	.076	.022	
8.0	.160	.078	.022	.157	.077	.022	.151	.075	.022	.145	.074	.021	.140	.072	.021	
9.0	.152	.073	.020	.149	.073	.020	.144	.071	.020	.139	.069	.020	.134	.068	.020	
10.0	.144	.069	.019	.142	.068	.019	.137	.067	.019	.132	.066	.019	.128	.064	.018	

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																
1.0	.201	.201	.201	.172	.172	.172	.118	.118	.118	.068	.068	.068	.022	.022	.022	
2.0	.186	.168	.152	.159	.144	.131	.109	.099	.090	.063	.057	.053	.020	.018	.017	
3.0	.174	.143	.118	.149	.123	.102	.102	.085	.071	.059	.050	.042	.019	.016	.014	
4.0	.164	.125	.094	.141	.108	.082	.097	.075	.057	.056	.044	.034	.018	.014	.011	
5.0	.156	.111	.077	.134	.096	.067	.092	.067	.047	.053	.039	.028	.017	.013	.009	
6.0	.148	.100	.065	.127	.087	.056	.088	.061	.040	.051	.036	.024	.016	.012	.008	
7.0	.142	.092	.056	.122	.079	.048	.084	.055	.034	.049	.033	.020	.016	.011	.007	
8.0	.135	.084	.049	.116	.073	.042	.080	.051	.030	.047	.030	.018	.015	.010	.006	
9.0	.130	.079	.043	.112	.068	.038	.077	.048	.027	.045	.028	.016	.015	.009	.005	
10.0	.124	.074	.039	.107	.064	.034	.074	.045	.024	.043	.027	.015	.014	.009	.005	

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2018-03-14

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:6.000 m
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

Uncorrected UGR Table

Report number:

MANUFACTURER:					Address:					
NAME:					TYPE:UFO			WEIGHT:		
SPECIFICATION:156W					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	27.1	28.3	27.3	28.5	28.7	27.1	28.3	27.3	28.5	28.7
	3H	27.3	28.4	27.6	28.7	28.9	27.3	28.4	27.6	28.7	28.9
	4H	27.3	28.4	27.7	28.7	28.9	27.4	28.4	27.7	28.7	28.9
	6H	27.3	28.3	27.6	28.6	28.9	27.4	28.4	27.7	28.6	28.9
	8H	27.3	28.2	27.6	28.5	28.8	27.3	28.3	27.7	28.6	28.9
	12H	27.2	28.1	27.6	28.4	28.7	27.3	28.2	27.7	28.5	28.8
4H	2H	27.1	28.1	27.4	28.4	28.6	27.1	28.1	27.4	28.4	28.6
	3H	27.4	28.3	27.8	28.6	29.0	27.4	28.3	27.7	28.6	28.9
	4H	27.5	28.4	27.9	28.7	29.0	27.5	28.3	27.8	28.6	29.0
	6H	27.5	28.3	27.9	28.6	29.0	27.5	28.2	27.9	28.6	29.0
	8H	27.5	28.2	27.9	28.5	29.0	27.5	28.2	27.9	28.5	28.9
	12H	27.5	28.1	27.9	28.5	28.9	27.5	28.1	27.9	28.5	28.9
8H	4H	27.5	28.1	27.9	28.5	28.9	27.4	28.1	27.8	28.5	28.9
	6H	27.5	28.1	28.0	28.5	28.9	27.5	28.0	27.9	28.4	28.9
	8H	27.5	28.0	28.0	28.4	28.9	27.5	28.0	28.0	28.4	28.9
	12H	27.5	27.9	27.9	28.3	28.8	27.5	27.9	28.0	28.3	28.8
12H	4H	27.4	28.0	27.9	28.4	28.9	27.4	28.0	27.8	28.4	28.8
	6H	27.5	27.9	27.9	28.4	28.9	27.4	27.9	27.9	28.4	28.8
	8H	27.5	27.9	28.0	28.3	28.8	27.5	27.9	27.9	28.3	28.8

Variations with the observer position at spacings:

S = 1.0H	+ 1.1 / - 1.7	+ 1.2 / - 1.7
1.5H	+ 1.4 / - 1.2	+ 1.6 / - 1.9
2.0H	+ 2.1 / - 1.8	+ 2.9 / - 3.4

CIE Pub.117 Corrected 23146 lm Total Lamp Luminous Flux. (8log(F/F0) = 10.9)

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2018-03-14

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:6.000 m
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

UTILIZATION FACTORS TABLE

Report number:

MANUFACTURER:	Address:		
NAME:	TYPE:UFO	WEIGHT:	
SPECIFICATION:156W	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	72	63	57	71	62	57	70	62	57	52
0.80	81	72	67	80	72	67	79	71	66	61
1.00	88	80	75	87	79	74	85	80	74	68
1.25	94	86	81	93	86	81	90	84	80	74
1.50	98	91	86	96	90	85	94	88	84	78
2.00	103	97	92	101	96	91	98	93	90	83
2.50	105	100	96	103	98	95	100	96	93	85
3.00	108	103	99	106	101	98	102	98	95	88
4.00	110	106	103	108	105	102	104	101	99	91
5.00	112	109	106	110	107	104	105	103	101	92
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

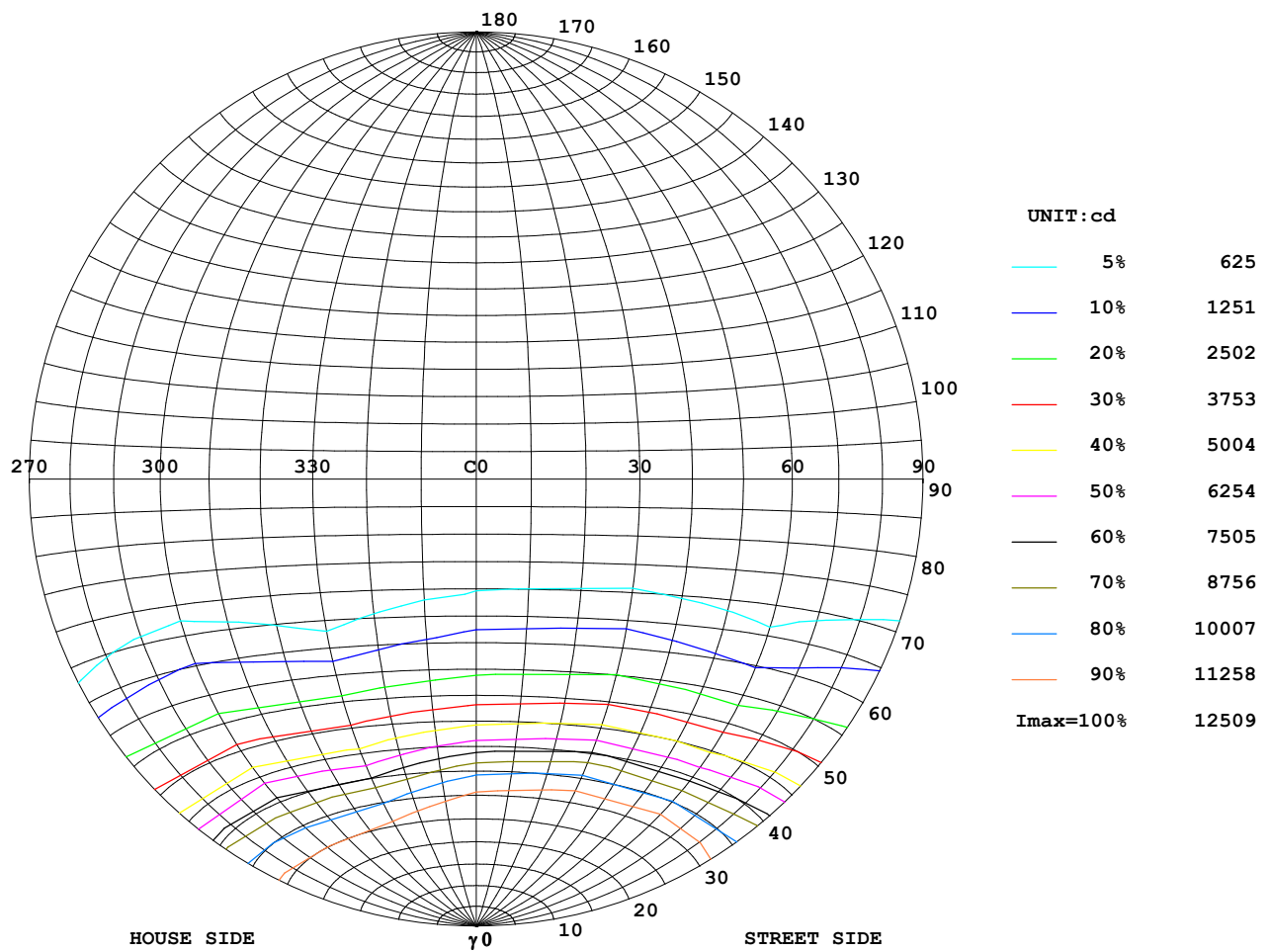
Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2018-03-14

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:6.000 m
 Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:	Address:	
NAME:	TYPE:UFO	WEIGHT:
SPECIFICATION:156W	DIMENSION:	SERIAL No.:



Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2018-03-14

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:6.000 m
 Remarks:

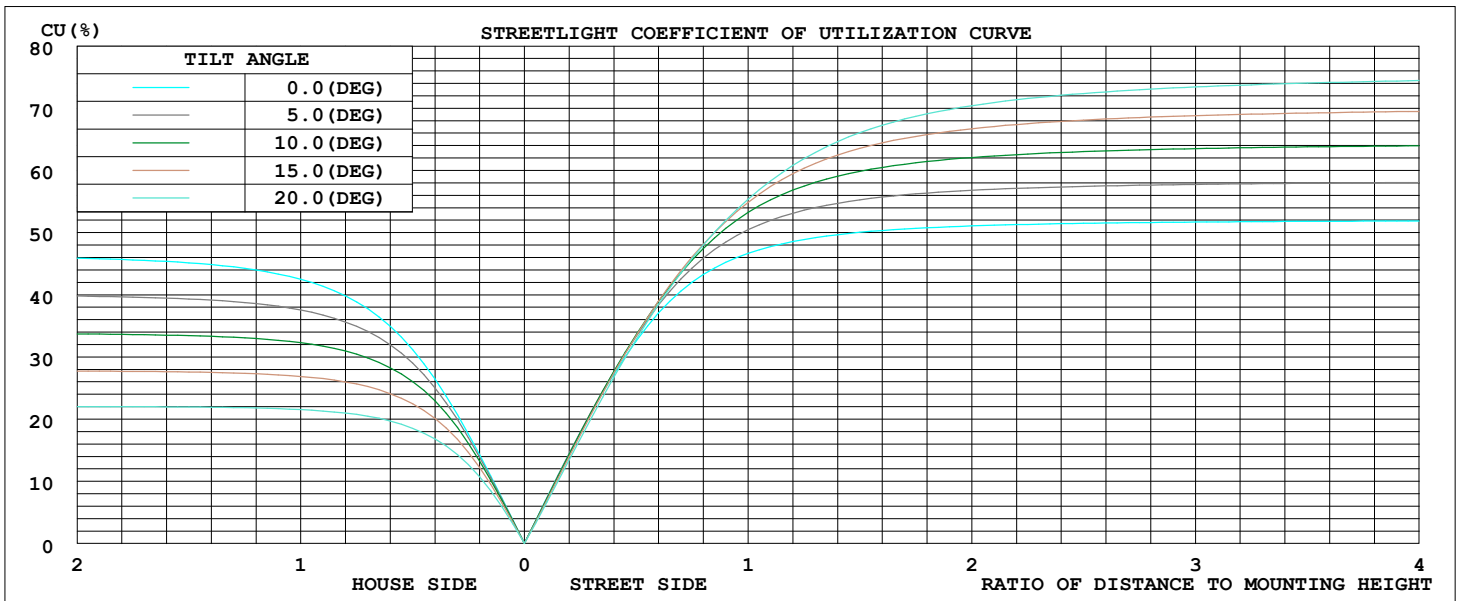
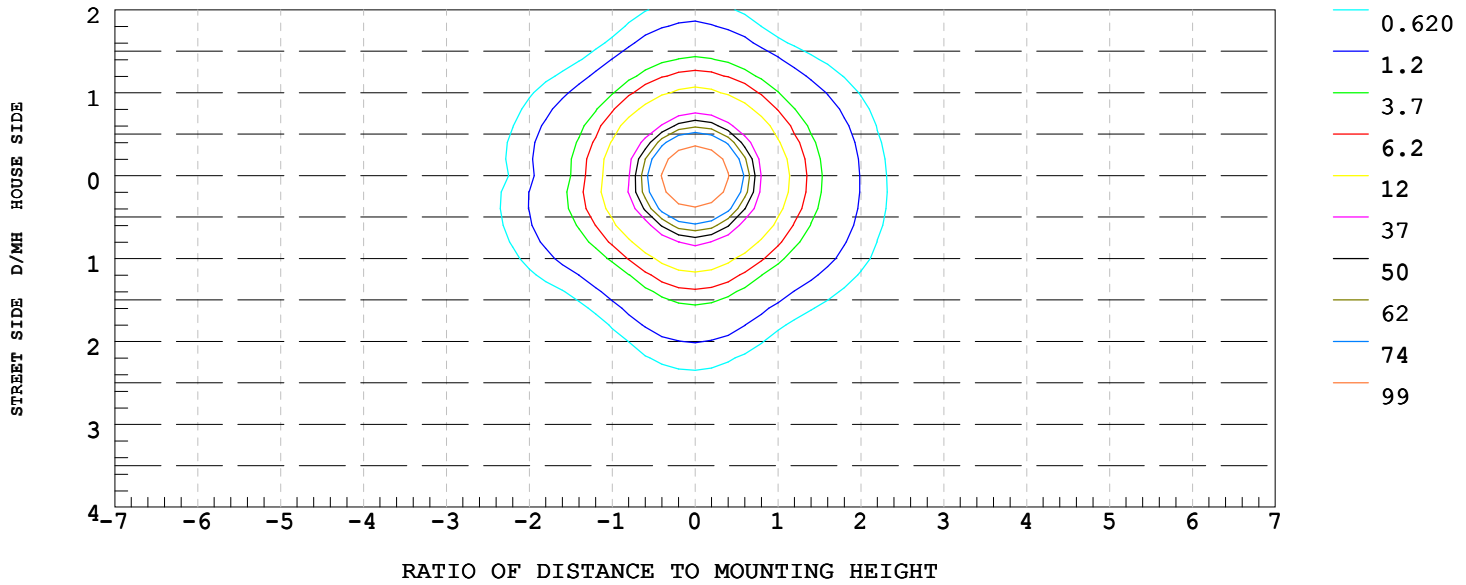
HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Report number:

MANUFACTURER:	Address:	
NAME:	TYPE:UFO	WEIGHT:
SPECIFICATION:156W	DIMENSION:	SERIAL No.:

ILLUMINANCE AT MH=10 m,Enadir = 123.95 lx



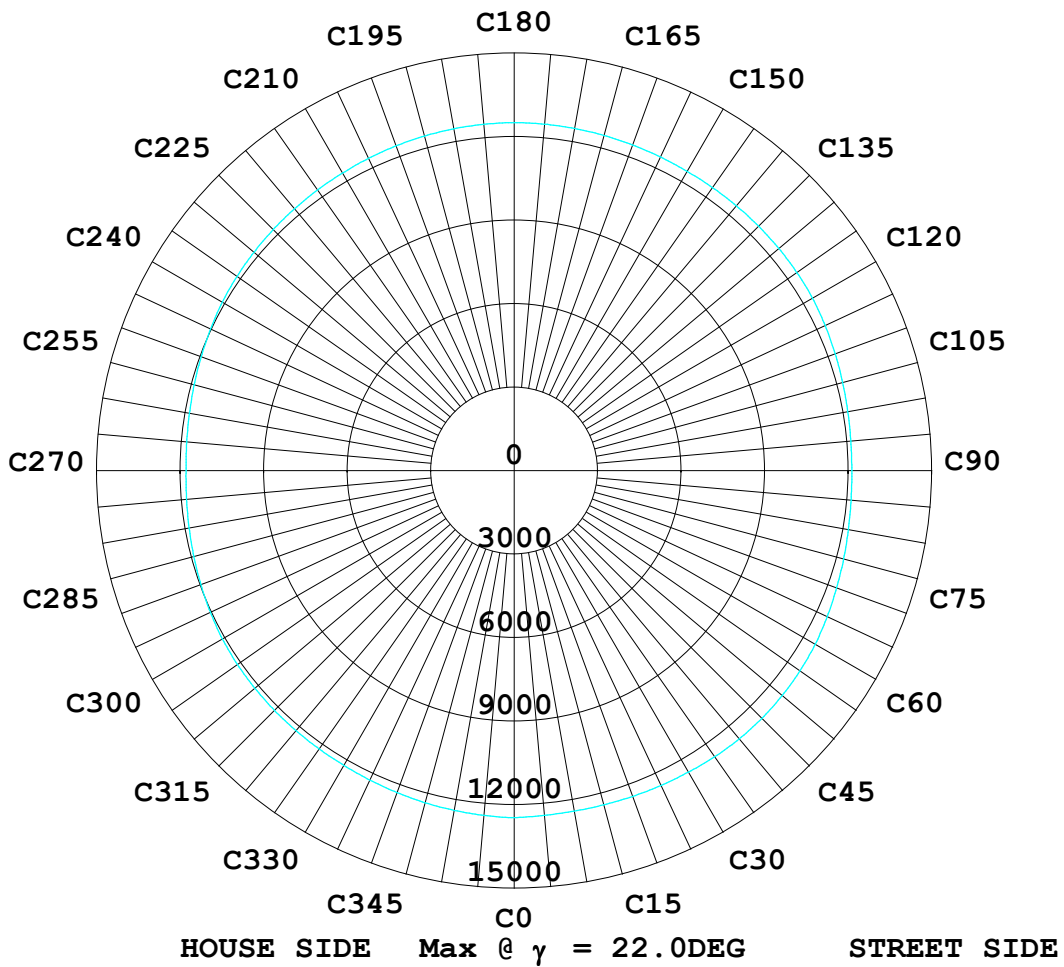
Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2018-03-14

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:6.000 m
 Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:	Address:	
NAME:	TYPE:UFO	WEIGHT:
SPECIFICATION:156W	DIMENSION:	SERIAL No.:



Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2018-03-14

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:6.000 m
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER:	Address:	
NAME:	TYPE:UFO	WEIGHT:
SPECIFICATION:156W	DIMENSION:	SERIAL No.:

UNIT: ×10cd

γ (DEG)	C (DEG)											
	0	30	60	90	120	150	180	210	240	270	300	330
0.0	1240	1235	1232	1229	1227	1225	1240	1235	1232	1229	1227	1225
5.0	1241	1237	1233	1230	1229	1227	1241	1236	1233	1230	1228	1226
10.0	1243	1240	1237	1234	1232	1230	1243	1238	1234	1231	1230	1228
15.0	1247	1245	1242	1238	1235	1235	1246	1240	1235	1232	1232	1232
20.0	1250	1249	1246	1230	1240	1240	1250	1240	1226	1212	1225	1231
25.0	1231	1245	1230	1203	1216	1238	1245	1212	1155	1125	1150	1193
30.0	1144	1187	1184	1157	1172	1179	1178	1111	1022	979	991	1074
35.0	961	1032	1007	1030	1003	992	971	889	818	790	754	849
40.0	683	762	683	805	676	724	704	637	559	568	531	618
45.0	474	522	488	566	483	508	509	452	398	406	386	446
50.0	329	362	330	393	334	351	364	311	282	284	272	303
55.0	229	251	205	272	211	237	252	213	182	195	171	202
60.0	154	168	120	183	124	160	170	139	97.7	129	96.4	130
65.0	99.4	110	65.7	120	75.1	111	112	89.5	49.3	81.6	51.1	83.3
70.0	61.1	67.0	45.3	72.9	46.7	72.8	68.5	56.7	29.5	47.9	30.1	54.0
75.0	33.2	39.9	27.1	42.9	28.3	44.0	39.6	35.0	15.7	23.4	15.1	31.8
80.0	12.1	16.1	13.0	20.4	13.5	18.9	16.7	12.6	6.10	7.85	5.75	11.4
85.0	3.17	4.41	4.70	6.12	4.95	5.51	4.61	3.35	2.13	1.95	2.03	2.89
90.0	1.98	1.83	1.93	1.46	2.03	1.95	1.65	2.02	2.03	1.76	2.04	2.04
95.0	2.36	2.19	2.18	1.79	2.26	2.32	1.96	2.27	2.24	2.05	2.23	2.23
100.0	2.84	2.62	2.47	2.26	2.54	2.76	2.31	2.52	2.43	2.41	2.42	2.49
105.0	3.43	3.15	2.90	2.84	2.95	3.27	2.73	2.84	2.79	2.82	2.80	2.80
110.0	4.14	3.83	3.56	3.49	3.61	3.93	3.22	3.30	3.38	3.36	3.36	3.26
115.0	4.88	4.62	4.31	4.27	4.35	4.64	3.78	3.94	4.10	3.99	4.07	3.86
120.0	5.65	5.45	5.13	5.08	5.15	5.43	4.46	4.67	4.85	4.70	4.84	4.56
125.0	6.42	6.23	5.94	5.83	5.95	6.18	5.14	5.38	5.57	5.42	5.56	5.27
130.0	7.09	6.97	6.69	6.58	6.67	6.91	5.83	6.01	6.27	6.08	6.23	5.92
135.0	7.74	7.57	7.35	7.23	7.35	7.49	6.49	6.58	6.88	6.72	6.81	6.52
140.0	8.30	8.13	7.95	7.89	7.98	8.02	7.07	7.07	7.33	7.31	7.24	7.05
145.0	8.79	8.63	8.43	8.50	8.48	8.51	7.56	7.59	7.78	7.81	7.68	7.52
150.0	9.25	9.10	8.92	9.05	8.98	8.97	8.08	8.02	8.23	8.24	8.10	7.98
155.0	9.75	9.60	9.38	9.57	9.47	9.43	8.62	8.47	8.70	8.71	8.55	8.42
160.0	10.2	10.1	9.86	10.1	9.92	9.91	9.20	8.99	9.24	9.29	9.10	8.93
165.0	10.7	10.5	10.3	10.6	10.3	10.3	9.81	9.57	9.82	9.94	9.68	9.49
170.0	11.1	10.9	10.7	11.0	10.7	10.7	10.4	10.1	10.3	10.5	10.2	10.0
175.0	11.3	11.1	10.9	11.3	10.9	10.9	10.9	10.6	10.7	11.0	10.6	10.5
180.0	11.2	11.0	10.9	11.3	10.9	10.8	11.3	10.9	11.0	11.2	10.9	10.8

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2018-03-14

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:6.000 m
 Remarks: