

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

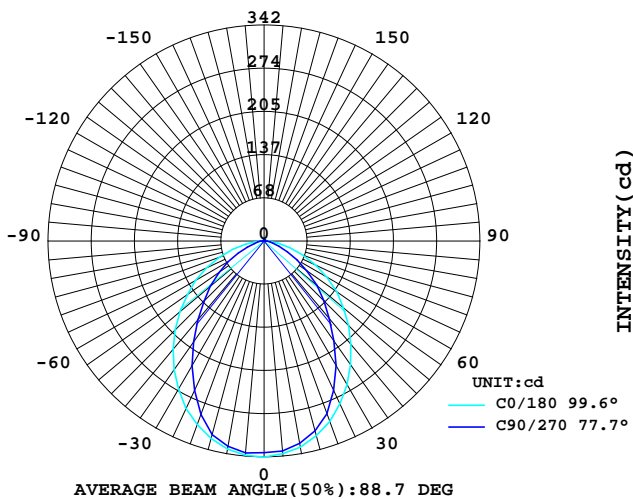
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

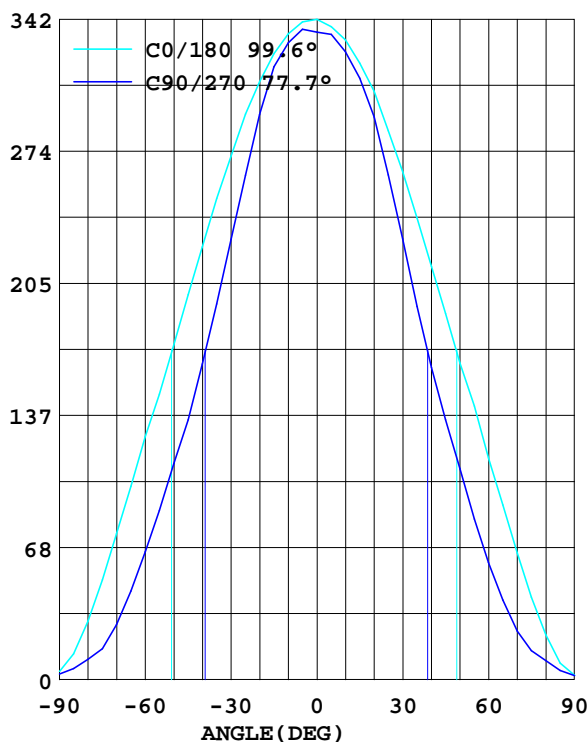
MANUFACTURER:	Address:	
NAME: NOVATRIS	TYPE:9W 3000K	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

DATA OF LAMP		Imax(cd)	341.9	S/MH(C0/180)	1.19
MODEL		EFFICIENCY(%)	100.0	S/MH(C90/270)	1.06
NOMINAL POWER(W)	9	TOTAL FLUX(lm)	745.14	Voltage(V)	241.8
RATED VOLTAGE(V)	242	EFFICIENCY(lm/W)	82.2	Current(A)	0.040
NOMINAL FLUX(lm)	745.1	η up(%)	1.7	Power(W)	9.060
LAMPS QUANTITY	1	η down(%)	98.3	Power Factor(PF)	0.914
TEST VOLTAGE(V)	241.9	Effective Flux(lm)	703.5	EEI	0.157

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2021年05月26日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.200 m
 Remarks:

Color Temperature Data List

Report number:

MANUFACTURER:	Address:	
NAME: NOVATRIS	TYPE:9W 3000K	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

Test System:HOPOO HPG1900
Temperature:25.3DEG
Operators:
Test Date:2021年05月26日

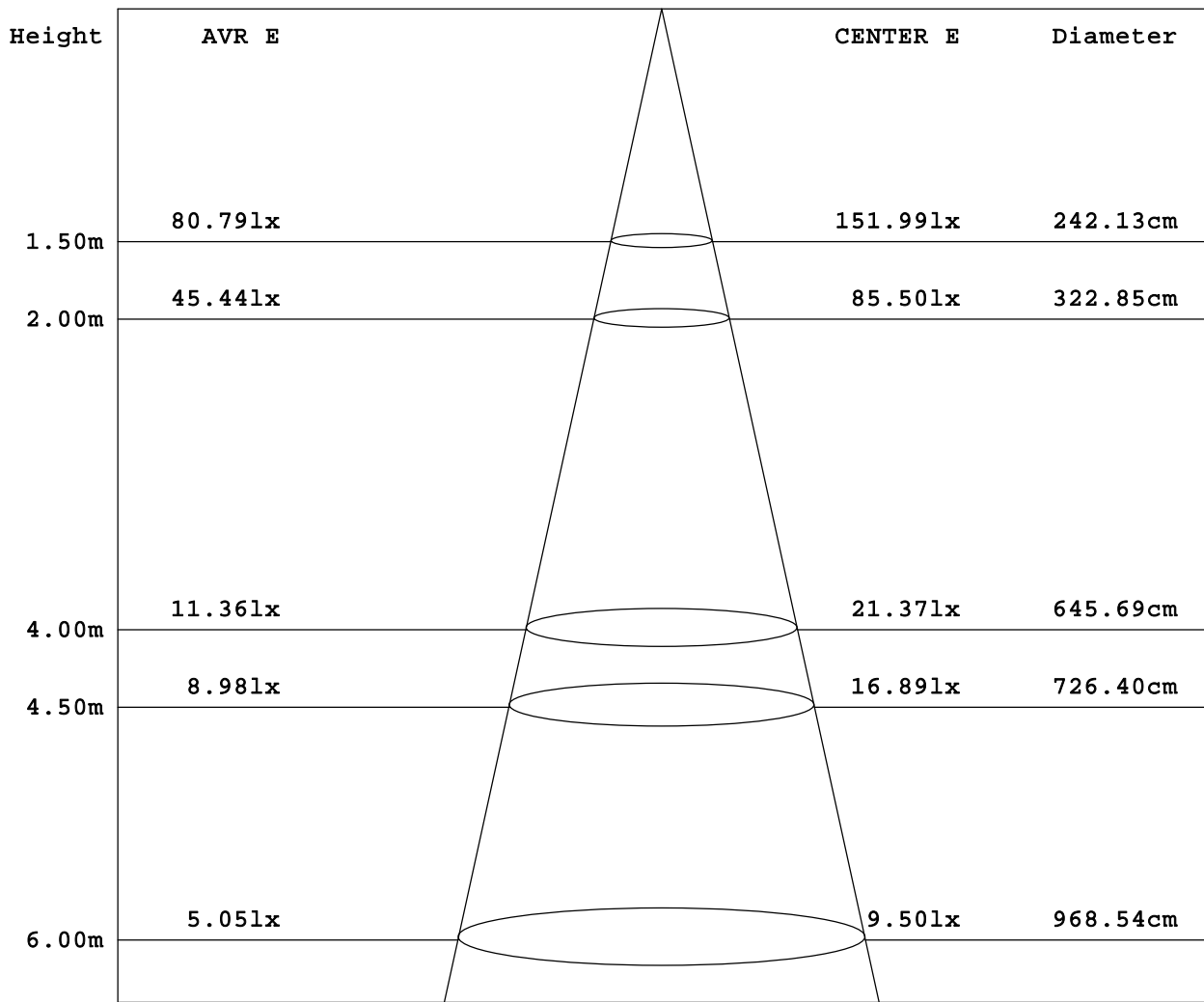
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Humidity:65.0%
Test Distance:8.200 m
Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER:	Address:	
NAME: NOVATRIS	TYPE:9W 3000K	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



Angle:77.8deg

Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2021年05月26日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.200 m
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER:	Address:	
NAME: NOVATRIS	TYPE:9W 3000K	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	zone	total
10.0	334.4	331.9	329.8	327.1	331.3	327.3	325.2	327.3	0- 10	31.87	31.87
20.0	309.5	304.1	292.6	294.6	304.5	295.9	291.2	298.5	10- 20	89.13	121.0
30.0	271.1	254.3	228.0	243.3	262.9	241.3	228.1	248.3	20- 30	126.1	247.1
40.0	223.9	194.3	163.3	193.0	213.8	181.3	161.5	191.5	30- 40	136.7	383.9
50.0	173.3	140.7	111.7	147.3	163.7	130.7	109.1	141.0	40- 50	126.9	510.9
60.0	125.9	91.64	66.16	98.17	114.7	84.58	60.51	96.42	50- 60	103.4	614.4
70.0	75.57	49.75	28.50	55.33	65.62	43.63	25.14	53.11	60- 70	69.67	684.0
80.0	30.25	21.58	10.48	24.00	23.33	19.56	9.817	23.46	70- 80	35.74	719.8
90.0	4.303	5.580	2.824	4.639	2.218	6.925	2.084	6.589	80- 90	12.42	732.2
100.0	2.958	1.613	1.815	1.344	1.748	2.555	0.807	3.093	90-100	3.331	735.5
110.0	2.555	1.613	1.344	1.210	1.748	2.353	0.538	2.286	100-110	1.912	737.4
120.0	2.689	2.017	1.277	1.613	2.151	2.487	0.740	2.353	110-120	1.773	739.2
130.0	2.555	2.286	1.277	1.949	2.487	2.689	0.874	2.689	120-130	1.816	741.0
140.0	2.218	2.151	1.277	2.017	2.286	2.689	0.941	2.487	130-140	1.610	742.6
150.0	1.815	1.613	1.412	1.681	1.815	1.949	1.143	2.017	140-150	1.166	743.8
160.0	1.681	1.344	1.479	1.277	1.613	1.613	1.277	1.613	150-160	0.721	744.5
170.0	1.748	1.344	1.546	1.344	1.613	1.613	1.344	1.613	160-170	0.426	745.0
180.0	1.681	1.479	1.613	1.412	1.748	1.681	1.479	1.613	170-180	0.148	745.1
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2021年05月26日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.200 m
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

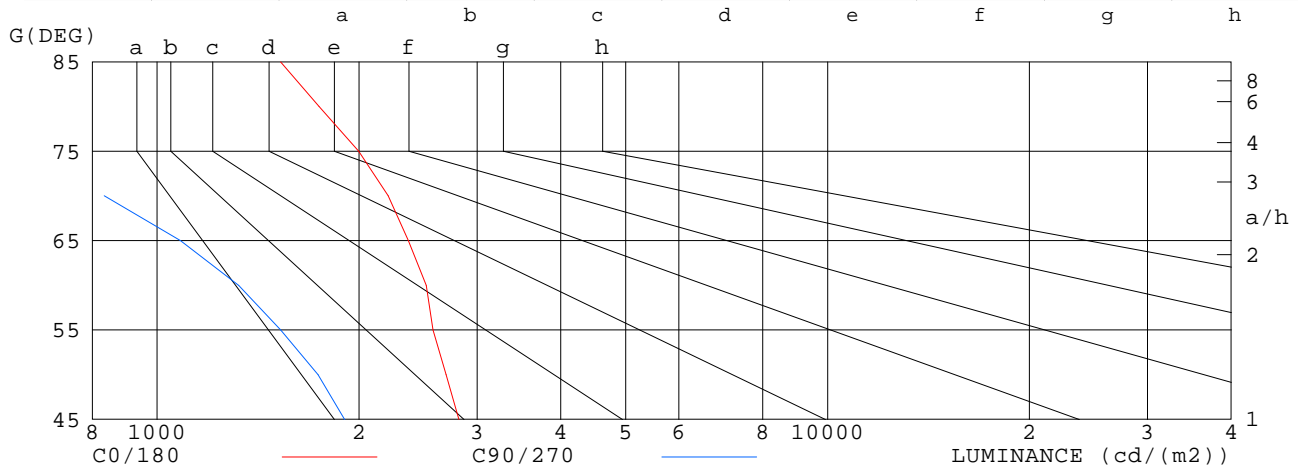
LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER:	Address:	
NAME: NOVATRIS	TYPE:9W 3000K	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
		2000	1000	500	<=300				
1.15	A								
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	1528	663
80	1742	604
75	1998	616
70	2210	834
65	2369	1083
60	2519	1323
55	2578	1529
50	2697	1739
45	2819	1903

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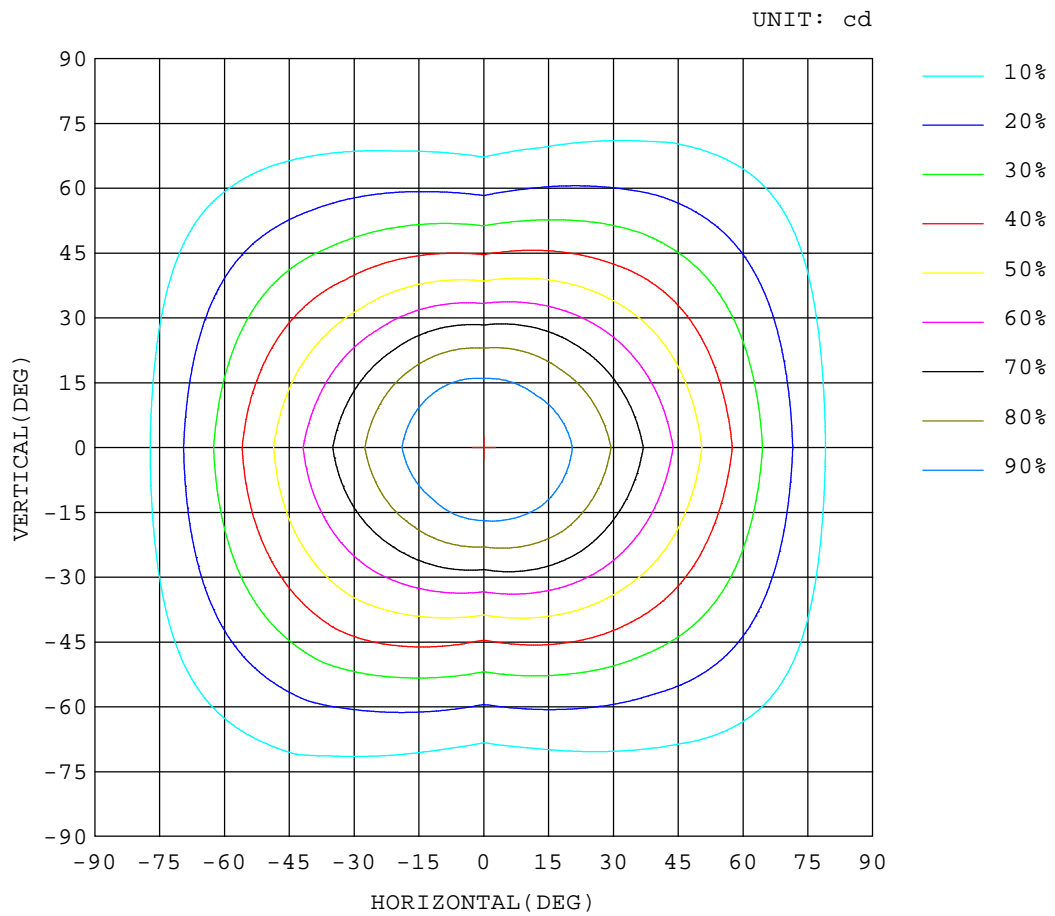
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 Humidity:65.0%
 Test Distance:8.200 m
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:	Address:	
NAME: NOVATRIS	TYPE:9W 3000K	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2021年05月26日

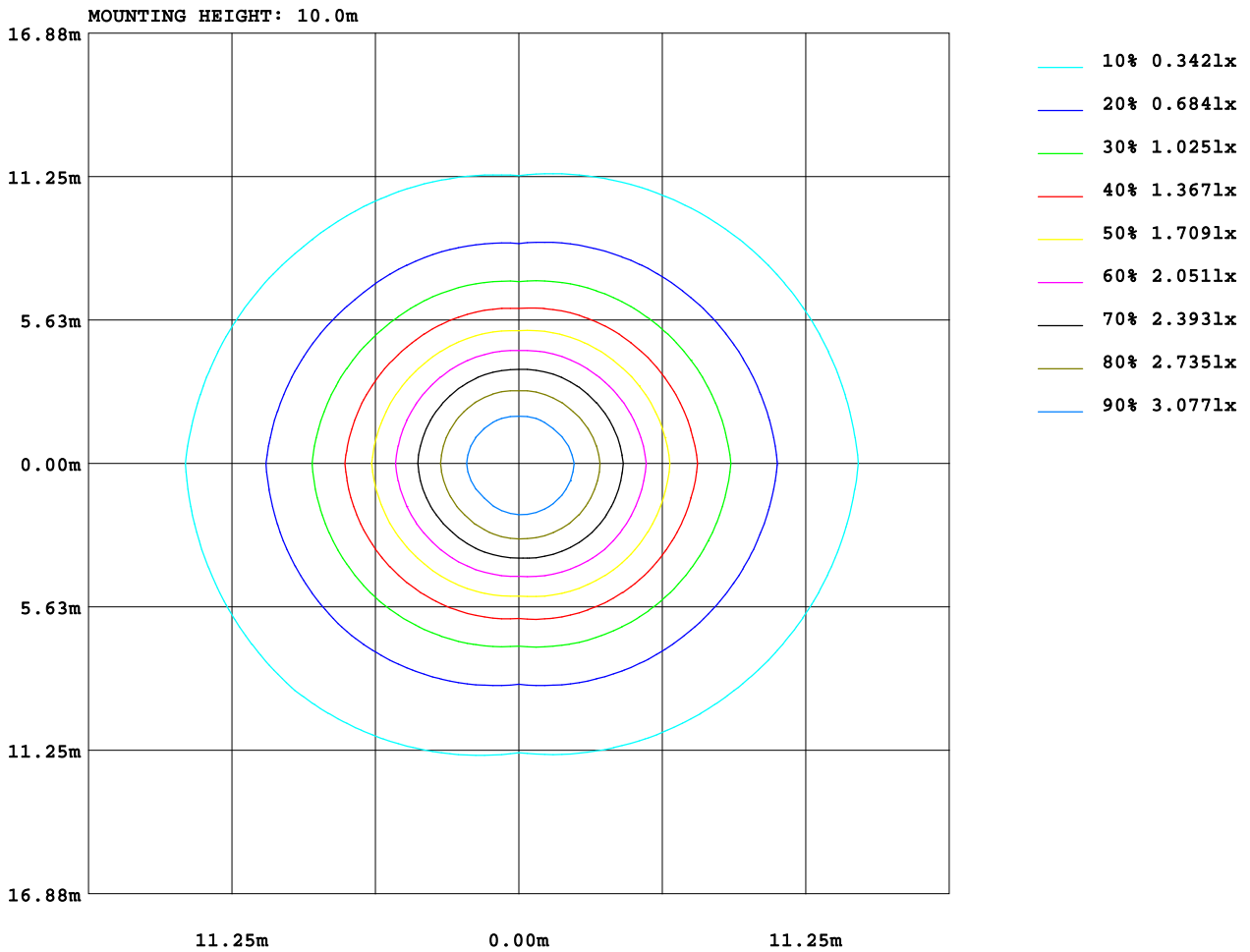
Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.200 m
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Report number:

MANUFACTURER:	Address:	
NAME: NOVATRIS	TYPE:9W 3000K	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2021年05月26日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.200 m
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

AREA LUMINOUS FLUX

Report number:

MANUFACTURER:	Address:	
NAME: NOVATRIS	TYPE:9W 3000K	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	90	80	70	60	50	40	30	20	10	0	10	20	30	40	50	60	70	80	90	
90	0.01	0.04	0.09	0.16	0.23	0.25	0.25	0.23	0.19	0.19	0.24	0.26	0.27	0.24	0.18	0.11	0.06	0.01	3.01	0.00
80	0.01	0.07	0.17	0.31	0.45	0.54	0.59	0.59	0.54	0.56	0.66	0.69	0.65	0.54	0.38	0.22	0.09	0.02	7.07	0.19
70	0.02	0.11	0.29	0.54	0.80	1.05	1.25	1.36	1.33	1.37	1.47	1.43	1.25	0.99	0.67	0.36	0.14	0.03	14.4	12.0
60	0.02	0.15	0.44	0.85	1.33	1.83	2.26	2.54	2.61	2.66	2.69	2.49	2.09	1.56	1.01	0.54	0.20	0.03	25.3	24.6
50	0.02	0.20	0.60	1.22	1.96	2.71	3.41	3.93	4.13	4.18	4.08	3.65	3.00	2.21	1.40	0.72	0.25	0.04	37.7	37.3
40	0.03	0.25	0.78	1.59	2.58	3.60	4.60	5.47	5.89	5.94	5.62	4.87	3.88	2.82	1.78	0.91	0.31	0.04	51.0	50.7
30	0.03	0.30	0.94	1.93	3.15	4.49	5.90	7.15	7.85	7.88	7.27	6.12	4.75	3.37	2.11	1.06	0.36	0.05	64.7	64.5
	0.04	0.33	1.06	2.21	3.62	5.27	7.00	8.50	9.33	9.32	8.57	7.19	5.51	3.84	2.37	1.19	0.40	0.05	75.8	75.7
	0.04	0.35	1.15	2.40	3.97	5.80	7.67	9.22	10.0	10.0	9.29	7.86	6.03	4.18	2.55	1.28	0.42	0.05	82.3	82.2
	0.04	0.36	1.16	2.42	4.00	5.82	7.67	9.20	10.0	10.1	9.37	7.90	6.05	4.18	2.55	1.28	0.42	0.05	82.6	82.5
	0.04	0.34	1.09	2.27	3.74	5.38	7.04	8.48	9.39	9.48	8.73	7.30	5.55	3.84	2.36	1.18	0.40	0.05	76.7	76.5
-30	0.03	0.31	0.98	2.02	3.33	4.72	6.06	7.19	7.85	7.94	7.40	6.23	4.78	3.35	2.08	1.05	0.36	0.05	65.8	65.6
-40	0.03	0.26	0.83	1.70	2.80	3.95	4.93	5.65	5.96	6.00	5.70	4.91	3.87	2.76	1.74	0.89	0.31	0.04	52.3	52.1
-50	0.03	0.21	0.66	1.34	2.19	3.07	3.76	4.17	4.23	4.22	4.10	3.64	2.92	2.13	1.35	0.71	0.25	0.04	39.0	38.7
-60	0.02	0.16	0.49	0.98	1.57	2.14	2.56	2.80	2.78	2.76	2.72	2.45	2.00	1.48	0.97	0.52	0.19	0.03	26.6	26.0
-70	0.02	0.11	0.32	0.64	1.00	1.30	1.50	1.57	1.50	1.48	1.51	1.40	1.19	0.92	0.63	0.35	0.14	0.02	15.6	14.0
-80	0.01	0.07	0.18	0.36	0.55	0.67	0.72	0.70	0.61	0.59	0.66	0.66	0.61	0.50	0.36	0.21	0.09	0.02	7.56	0.34
-90	0.01	0.04	0.09	0.15	0.22	0.26	0.26	0.25	0.21	0.21	0.24	0.26	0.26	0.23	0.17	0.11	0.05	0.01	3.03	0.00
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)	20	30	40	50	60	70	80	90			
Φ t	0.44	3.65	11.3	23.1	37.5	52.9	67.5	79.0	84.5	85.0	80.3	69.3	54.7	39.2	24.7	12.7	4.44	0.63	745	
Φ a	0.00	1.96	9.85	21.5	35.8	51.1	65.7	77.2	82.7	83.1	78.5	67.5	53.0	37.6	23.2	11.3	2.94	0.00		703

Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2021年05月26日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.200 m
 Remarks:

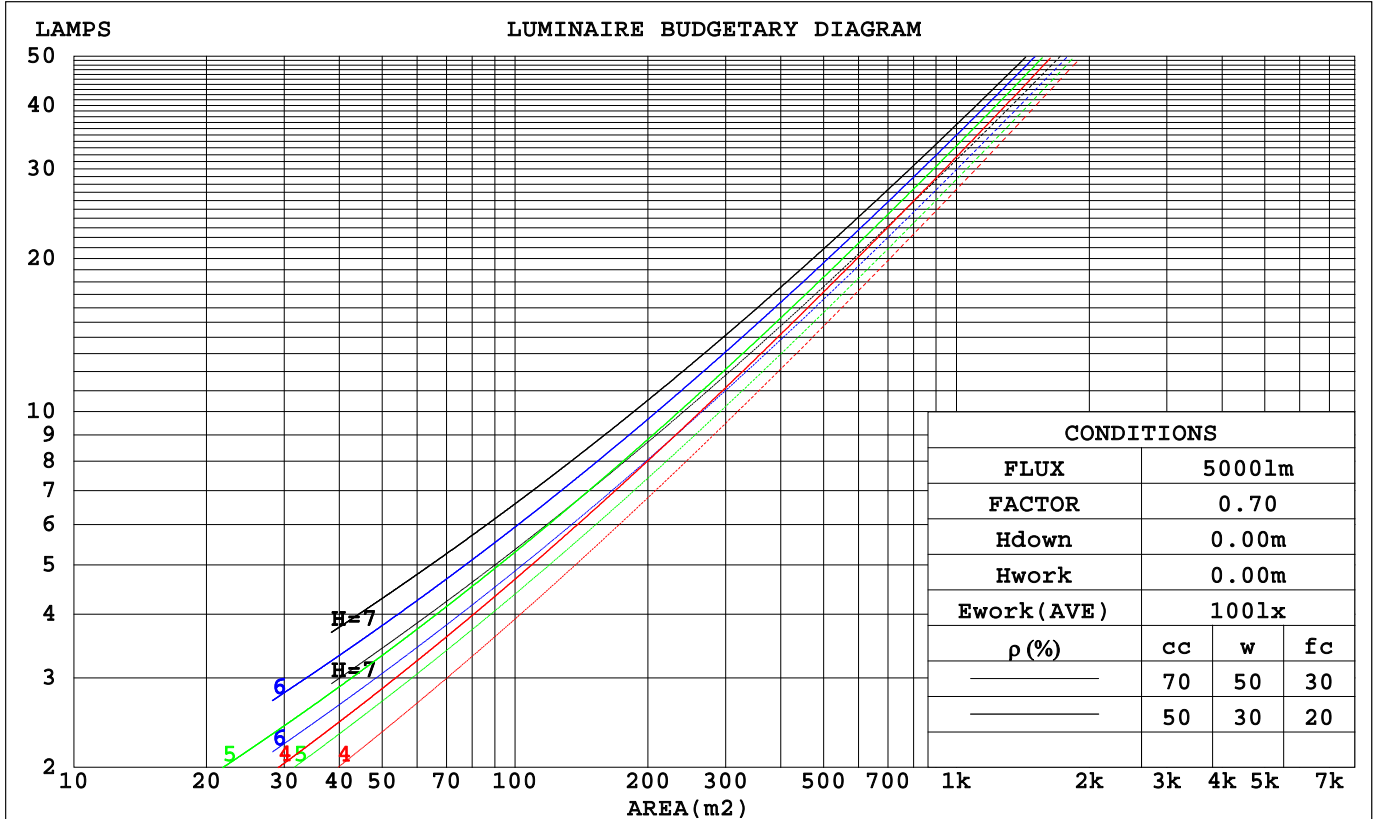
HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER:				Address:			
NAME: NOVATRIS				TYPE:9W 3000K		WEIGHT:	
SPECIFICATION:				DIMENSION:		SERIAL No.:	

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	1.10	1.10	1.10	1.05	1.05	1.05	1.00	1.00	1.00	.98
1.0	1.05	1.01	.97	1.02	.99	.96	.98	.95	.92	.94	.91	.89	.90	.88	.86	.84
2.0	.93	.86	.81	.91	.85	.80	.87	.82	.78	.83	.79	.76	.80	.77	.74	.72
3.0	.82	.75	.69	.80	.73	.68	.77	.71	.66	.74	.69	.65	.72	.67	.64	.62
4.0	.74	.65	.59	.72	.64	.59	.69	.63	.58	.67	.61	.57	.65	.60	.56	.54
5.0	.66	.58	.52	.65	.57	.51	.63	.56	.50	.61	.55	.50	.59	.53	.49	.47
6.0	.60	.52	.46	.59	.51	.45	.57	.50	.45	.55	.49	.44	.54	.48	.44	.42
7.0	.55	.46	.41	.54	.46	.40	.52	.45	.40	.51	.44	.40	.49	.44	.39	.37
8.0	.50	.42	.37	.49	.42	.36	.48	.41	.36	.47	.40	.36	.45	.40	.35	.34
9.0	.46	.38	.33	.46	.38	.33	.44	.38	.33	.43	.37	.33	.42	.36	.32	.31
10.0	.43	.35	.30	.42	.35	.30	.41	.35	.30	.40	.34	.30	.39	.34	.30	.28



Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2021年05月26日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.200 m
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

WEC AND CCEC

Report number:

MANUFACTURER:	Address:					
NAME: NOVATRIS	TYPE:9W 3000K			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	.283	.161	.051	.276	.157	.050	.262	.150	.048	.249	.144	.046	.237	.137	.044	
2.0	.268	.147	.045	.261	.144	.044	.249	.138	.043	.237	.133	.042	.227	.128	.040	
3.0	.249	.133	.040	.243	.130	.039	.232	.126	.038	.222	.122	.037	.213	.118	.036	
4.0	.232	.120	.035	.226	.118	.035	.217	.115	.034	.208	.112	.034	.199	.108	.033	
5.0	.215	.110	.032	.211	.108	.032	.202	.105	.031	.194	.102	.030	.187	.100	.030	
6.0	.201	.101	.029	.197	.099	.029	.189	.097	.028	.182	.094	.028	.175	.092	.027	
7.0	.188	.093	.026	.184	.092	.026	.177	.090	.026	.171	.087	.025	.165	.085	.025	
8.0	.176	.086	.024	.173	.085	.024	.167	.083	.024	.161	.081	.023	.155	.080	.023	
9.0	.166	.080	.022	.163	.079	.022	.157	.078	.022	.152	.076	.022	.147	.075	.022	
10.0	.156	.075	.021	.154	.074	.021	.148	.073	.020	.144	.071	.020	.139	.070	.020	

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	.204	.204	.204	.174	.174	.174	.119	.119	.119	.068	.068	.068	.022	.022	.022	
1.0	.192	.170	.150	.164	.146	.129	.112	.100	.089	.065	.058	.052	.021	.019	.017	
2.0	.182	.145	.114	.156	.125	.099	.107	.087	.069	.062	.050	.040	.020	.016	.013	
3.0	.174	.128	.091	.149	.110	.079	.102	.076	.055	.059	.045	.033	.019	.015	.011	
4.0	.166	.114	.074	.142	.099	.065	.098	.069	.046	.057	.040	.027	.018	.013	.009	
5.0	.159	.104	.063	.136	.090	.055	.094	.063	.039	.054	.037	.023	.018	.012	.008	
6.0	.152	.095	.055	.130	.082	.048	.090	.058	.034	.052	.034	.020	.017	.011	.007	
7.0	.145	.088	.048	.125	.076	.042	.086	.054	.030	.050	.032	.018	.016	.010	.006	
8.0	.139	.082	.044	.119	.071	.038	.083	.050	.027	.048	.030	.016	.016	.010	.005	
9.0	.133	.077	.040	.114	.067	.035	.079	.047	.025	.046	.028	.015	.015	.009	.005	
10.0	.127	.073	.037	.110	.063	.032	.076	.045	.023	.044	.026	.014	.014	.009	.005	

Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2021年05月26日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.200 m
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

Uncorrected UGR Table

Report number:

MANUFACTURER:						Address:					
NAME: NOVATRIS						TYPE:9W 3000K			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	15.9	17.3	16.2	17.5	17.7	13.7	15.1	14.0	15.4	15.6	
3H	17.3	18.6	17.6	18.8	19.1	14.3	15.6	14.7	15.9	16.1	
4H	17.9	19.1	18.2	19.4	19.6	14.5	15.7	14.8	16.0	16.3	
6H	18.2	19.4	18.6	19.7	20.0	14.6	15.7	14.9	16.0	16.3	
8H	18.3	19.4	18.7	19.7	20.0	14.6	15.7	15.0	16.0	16.3	
12H	18.4	19.4	18.7	19.7	20.1	14.6	15.7	15.0	16.0	16.3	
4H 2H	16.1	17.4	16.5	17.6	17.9	14.4	15.6	14.7	15.9	16.2	
3H	17.7	18.8	18.1	19.1	19.4	15.2	16.3	15.6	16.6	16.9	
4H	18.4	19.4	18.8	19.7	20.1	15.5	16.4	15.9	16.8	17.1	
6H	18.9	19.7	19.3	20.1	20.5	15.7	16.5	16.1	16.9	17.3	
8H	19.0	19.8	19.4	20.2	20.6	15.7	16.5	16.2	16.9	17.3	
12H	19.1	19.9	19.6	20.3	20.7	15.8	16.5	16.2	16.9	17.4	
8H 4H	18.4	19.2	18.9	19.6	20.1	15.8	16.6	16.2	17.0	17.4	
6H	19.1	19.7	19.5	20.2	20.6	16.2	16.8	16.6	17.3	17.7	
8H	19.3	19.9	19.8	20.3	20.8	16.3	16.9	16.8	17.4	17.8	
12H	19.5	20.0	20.0	20.5	21.0	16.5	17.0	17.0	17.4	17.9	
12H 4H	18.4	19.2	18.9	19.6	20.0	15.8	16.6	16.3	17.0	17.4	
6H	19.1	19.7	19.6	20.1	20.6	16.3	16.9	16.8	17.3	17.8	
8H	19.3	19.8	19.8	20.3	20.8	16.5	17.0	17.0	17.5	18.0	
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.1					+ 0.3 / - 0.4					
1.5H	+ 0.1 / - 0.2					+ 0.3 / - 0.5					
2.0H	+ 0.4 / - 0.6					+ 0.4 / - 0.9					

CIE Pub.117 Corrected 745.1 lm Total Lamp Luminous Flux.(8log(F/F0) = -1.0)

Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2021年05月26日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.200 m
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

UTILIZATION FACTORS TABLE

Report number:

MANUFACTURER:	Address:		
NAME: NOVATRIS	TYPE:9W 3000K	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	61	51	44	61	50	44	59	50	44	38
0.80	71	61	54	70	60	54	68	59	53	47
1.00	79	69	62	78	69	62	76	70	62	55
1.25	86	76	70	85	76	69	82	74	69	62
1.50	91	82	75	89	81	75	86	79	74	66
2.00	97	89	83	95	88	82	92	86	81	73
2.50	100	93	88	98	92	87	94	89	85	77
3.00	103	97	92	101	96	91	97	92	89	80
4.00	107	102	98	105	100	96	100	96	93	84
5.00	109	105	101	107	103	99	102	99	96	87
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 Date:2021年05月26日

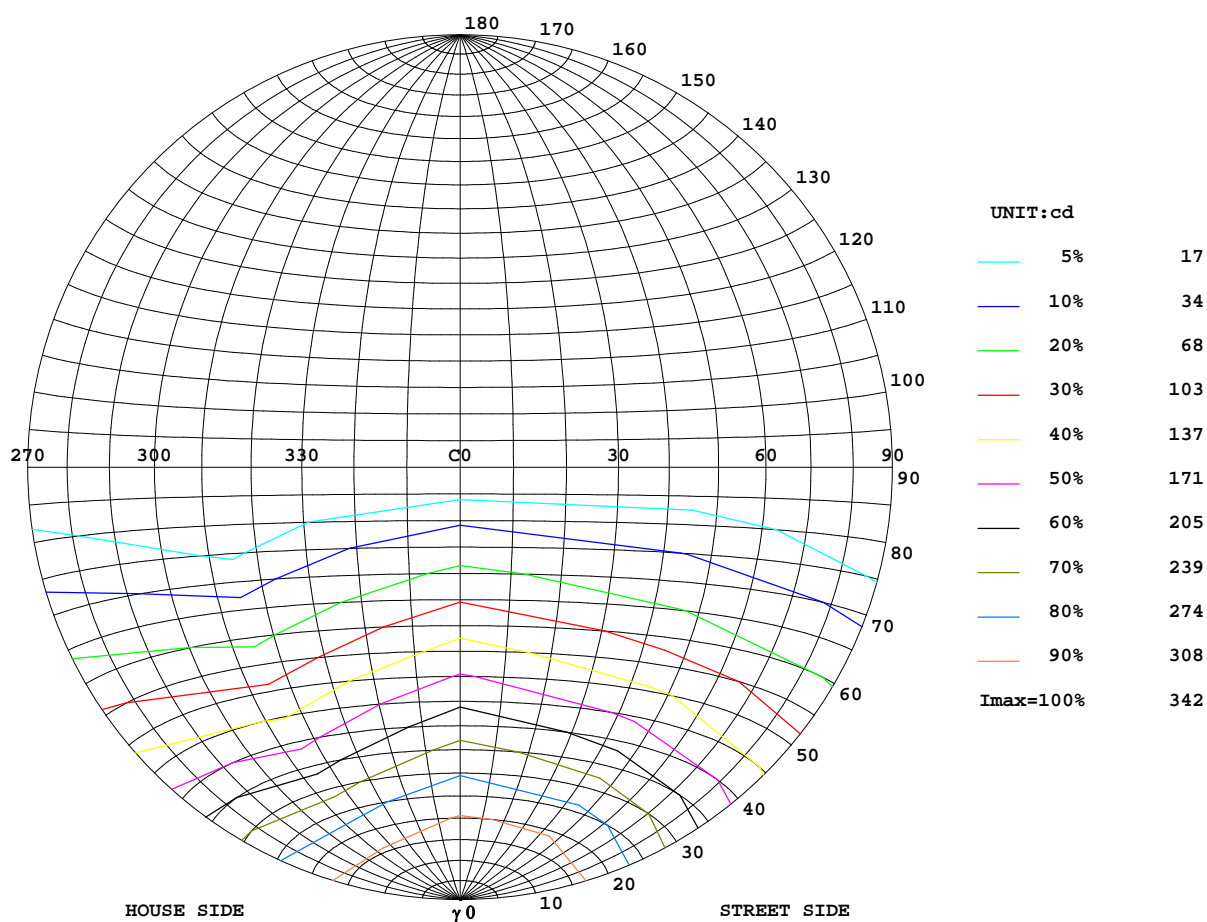
Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.200 m
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:	Address:	
NAME: NOVATRIS	TYPE:9W 3000K	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2021年05月26日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.200 m
 Remarks:

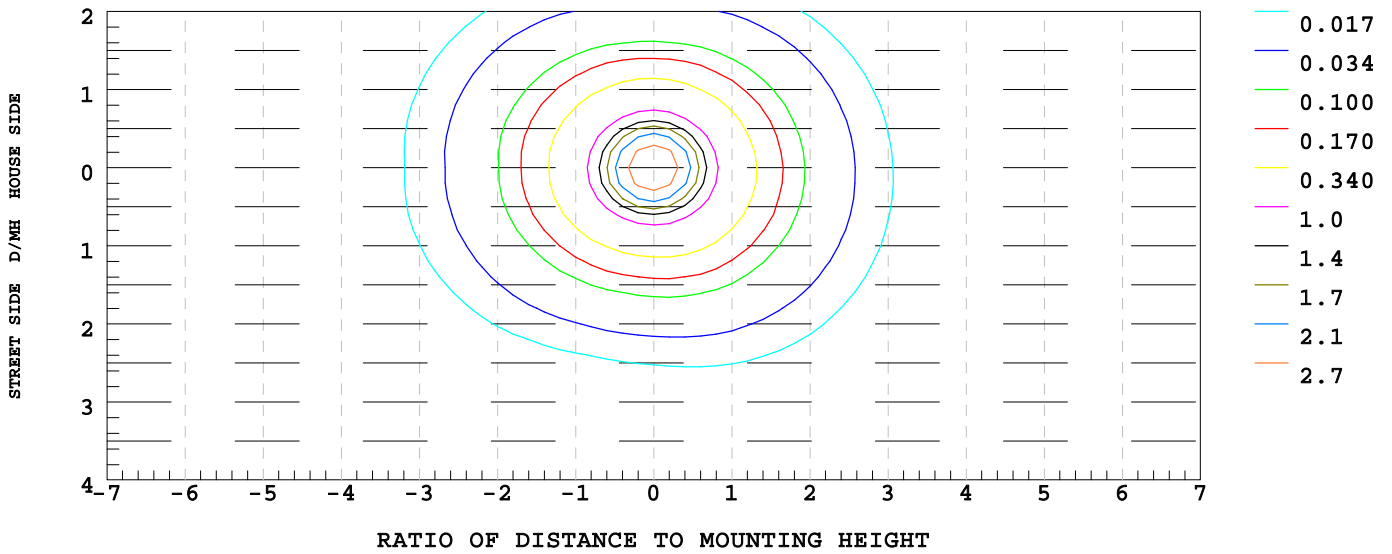
HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Report number:

MANUFACTURER:	Address:	
NAME: NOVATRIS	TYPE:9W 3000K	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

ILLUMINANCE AT MH=10 m,Enadir = 3.42 lx



Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2021年05月26日

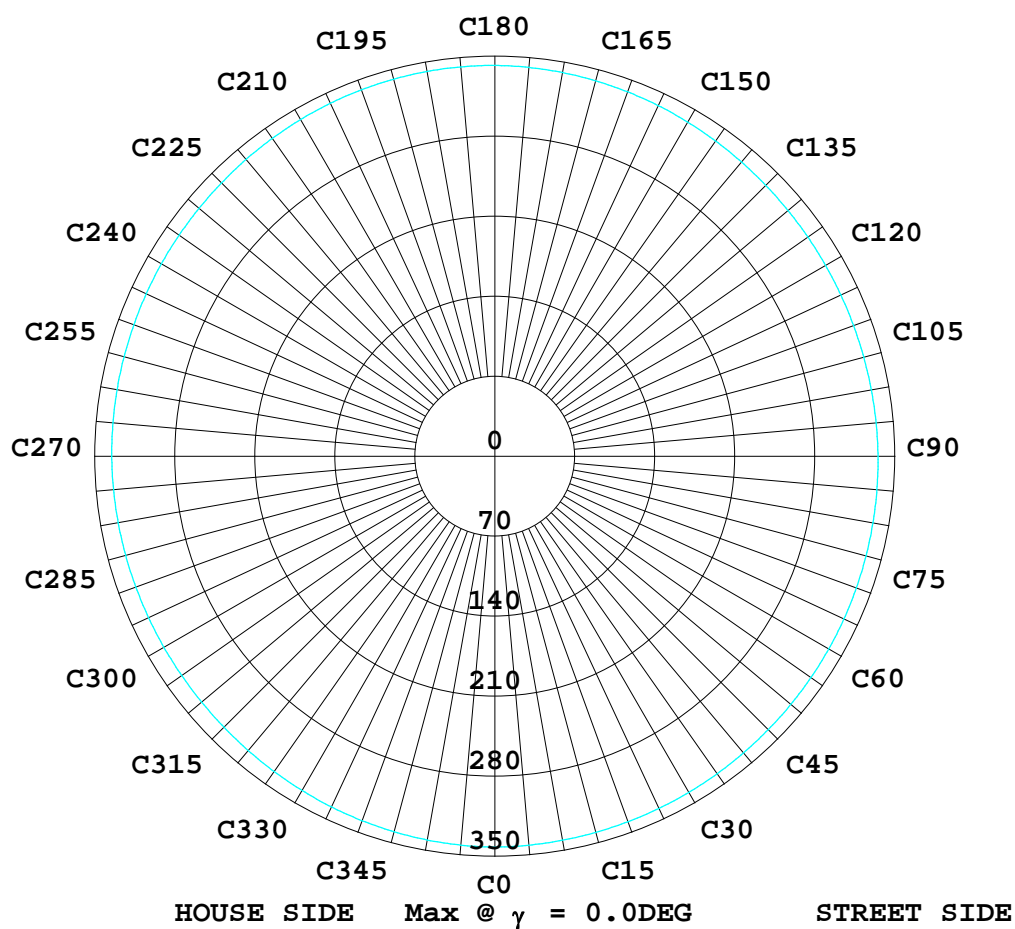
Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.200 m
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:	Address:	
NAME: NOVATRIS	TYPE:9W 3000K	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2021年05月26日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.200 m
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER:	Address:	
NAME: NOVATRIS	TYPE:9W 3000K	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

UNIT: cd

γ (DEG)	C(DEG)							
	0	45	90	135	180	225	270	315
0.0	342	338	335	335	342	338	335	335
5.0	341	338	337	333	338	337	334	332
10.0	334	332	330	327	331	327	325	327
15.0	324	321	317	315	319	316	311	314
20.0	310	304	293	295	305	296	291	299
25.0	293	281	261	271	284	271	261	274
30.0	271	254	228	243	263	241	228	248
35.0	249	223	194	218	239	211	193	219
40.0	224	194	163	193	214	181	162	192
45.0	199	166	135	169	190	153	134	165
50.0	173	141	112	147	164	131	109	141
55.0	148	115	87.6	122	142	106	83.1	120
60.0	126	91.6	66.1	98.1	115	84.5	60.5	96.4
65.0	100	69.4	45.7	75.5	90.3	62.6	41.1	74.0
70.0	75.5	49.7	28.5	55.3	65.6	43.6	25.1	53.1
75.0	51.7	33.6	15.9	37.9	42.6	28.8	14.9	36.7
80.0	30.2	21.5	10.4	24.0	23.3	19.5	9.81	23.4
85.0	13.3	12.7	5.78	12.7	8.60	12.3	4.77	13.3
90.0	4.30	5.58	2.82	4.63	2.21	6.92	2.08	6.58
95.0	3.49	3.22	2.21	2.75	2.15	3.96	1.27	4.16
100.0	2.95	1.61	1.81	1.34	1.74	2.55	0.81	3.09
105.0	2.68	1.41	1.61	1.14	1.68	2.35	0.67	2.55
110.0	2.55	1.61	1.34	1.21	1.74	2.35	0.54	2.28
115.0	2.62	1.74	1.14	1.41	1.88	2.42	0.61	2.28
120.0	2.68	2.01	1.27	1.61	2.15	2.48	0.74	2.35
125.0	2.62	2.21	1.27	1.88	2.42	2.55	0.81	2.55
130.0	2.55	2.28	1.27	1.94	2.48	2.68	0.87	2.68
135.0	2.42	2.28	1.27	2.01	2.48	2.75	0.87	2.68
140.0	2.21	2.15	1.27	2.01	2.28	2.68	0.94	2.48
145.0	2.01	1.94	1.34	1.88	2.01	2.35	1.00	2.28
150.0	1.81	1.61	1.41	1.68	1.81	1.94	1.14	2.01
155.0	1.74	1.41	1.41	1.41	1.68	1.61	1.21	1.68
160.0	1.68	1.34	1.47	1.27	1.61	1.61	1.27	1.61
165.0	1.68	1.34	1.54	1.27	1.61	1.61	1.34	1.61
170.0	1.74	1.34	1.54	1.34	1.61	1.61	1.34	1.61
175.0	1.68	1.41	1.54	1.34	1.68	1.68	1.41	1.68
180.0	1.68	1.47	1.61	1.41	1.74	1.68	1.47	1.61

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