

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

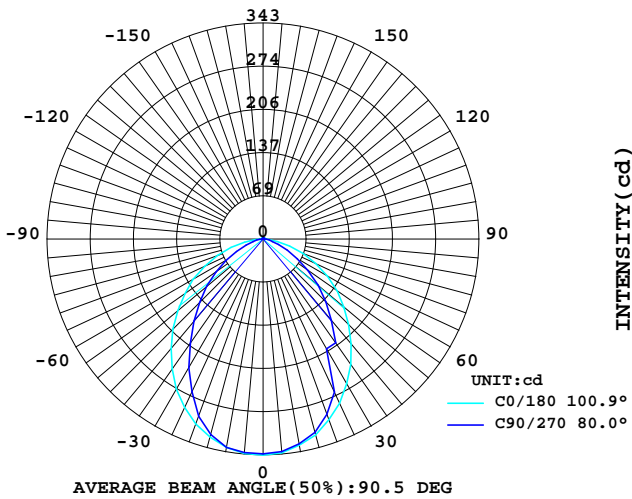
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

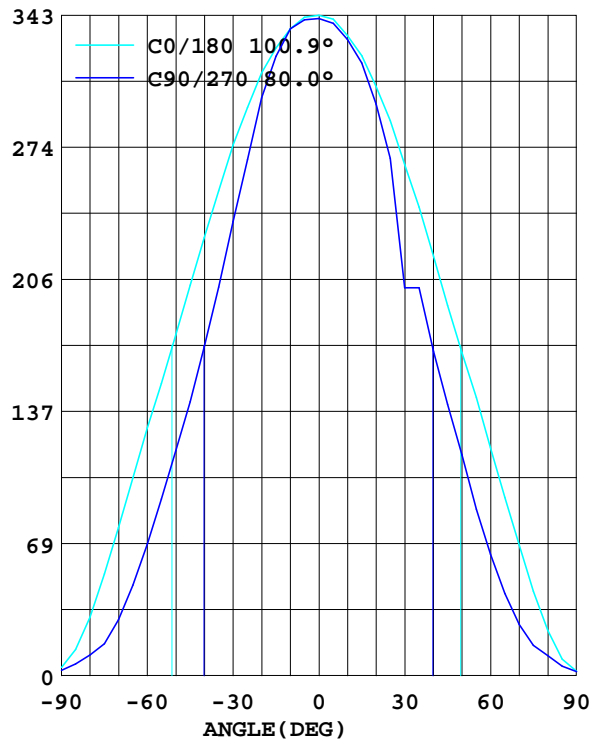
MANUFACTURER:	Address:	
NAME: NOVATRIS	TYPE:9W 5000K	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

DATA OF LAMP		Imax(cd)	342.7	S/MH(C0/180)	1.20
MODEL		EFFICIENCY(%)	100.0	S/MH(C90/270)	1.07
NOMINAL POWER(W)	9	TOTAL FLUX(lm)	761.80	Voltage(V)	241.6
RATED VOLTAGE(V)	242	EFFICIENCY(lm/W)	84.0	Current(A)	0.041
NOMINAL FLUX(lm)	761.8	η up(%)	1.7	Power(W)	9.070
LAMPS QUANTITY	1	η down(%)	98.3	Power Factor(PF)	0.916
TEST VOLTAGE(V)	241.6	Effictive Flux(lm)	721.5	EEI	0.154

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 5000K	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

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

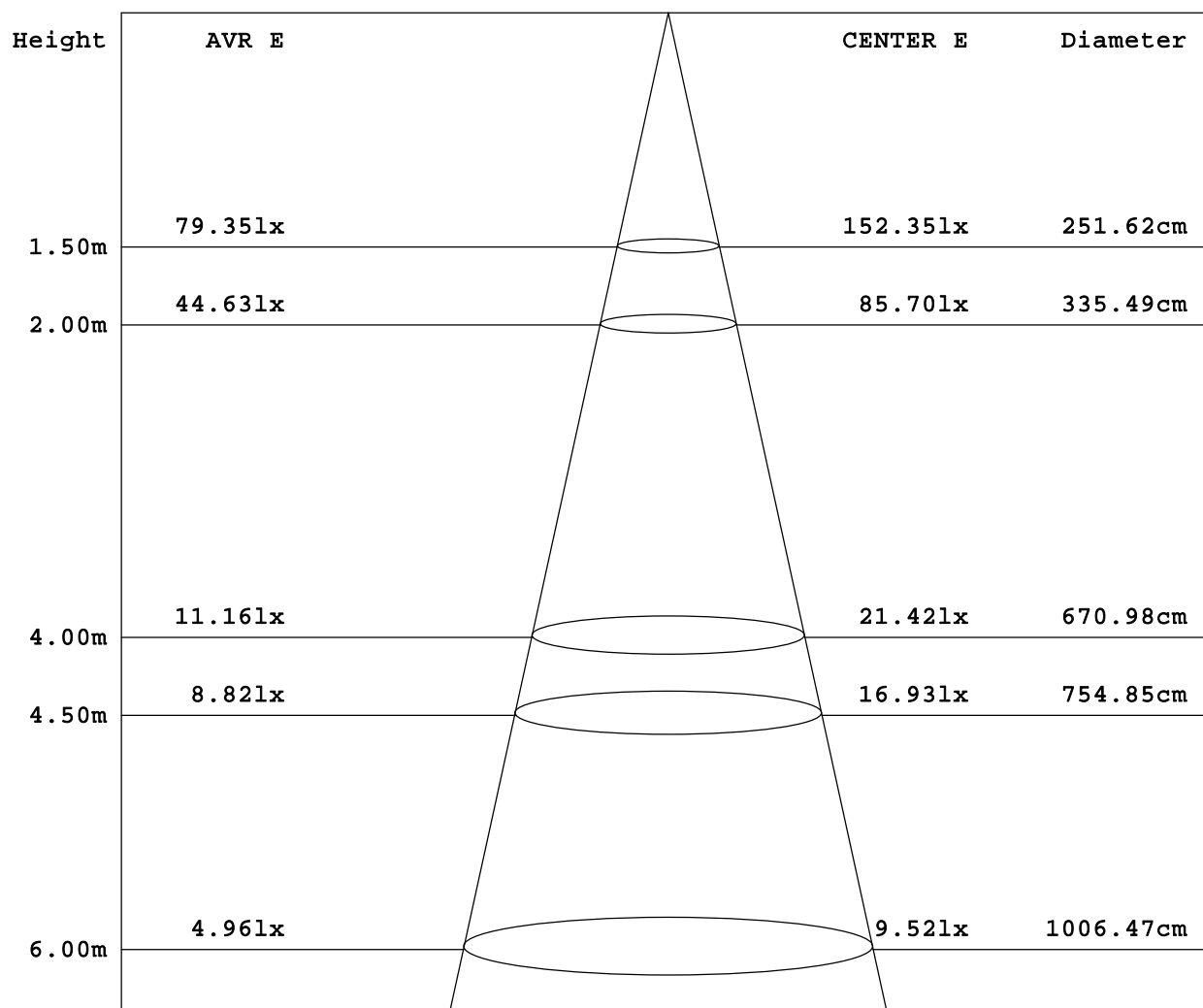
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Humidity:65.0%
Test Distance:8.200 m
Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER:	Address:	
NAME: NOVATRIS	TYPE:9W 5000K	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



Angle:80.0deg

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 5000K	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	zone	total
10.0	335.7	334.9	335.7	331.6	332.2	332.5	330.2	332.4	0- 10	32.22	32.22
20.0	312.7	307.9	299.7	277.8	305.6	301.1	296.4	304.8	10- 20	90.13	122.3
30.0	275.4	259.1	235.7	252.2	265.1	246.7	201.3	256.2	20- 30	127.8	250.1
40.0	227.4	199.9	170.7	200.5	217.7	185.5	168.3	198.6	30- 40	139.8	390.0
50.0	176.9	145.3	116.7	153.4	167.4	133.8	114.5	146.5	40- 50	131.0	521.0
60.0	128.5	94.13	68.24	102.6	118.2	85.66	63.07	99.78	50- 60	106.7	627.8
70.0	76.85	50.96	29.04	57.96	67.64	43.97	26.42	54.93	60- 70	71.65	699.4
80.0	30.32	22.12	10.75	25.01	23.46	19.83	10.35	24.20	70- 80	36.74	736.2
90.0	4.168	5.580	2.756	4.706	2.286	6.925	2.084	6.656	80- 90	12.65	748.8
100.0	2.891	1.613	1.815	1.412	1.815	2.555	0.807	3.093	90-100	3.324	752.2
110.0	2.555	1.546	1.277	1.210	1.748	2.353	0.538	2.353	100-110	1.917	754.1
120.0	2.689	2.084	1.277	1.681	2.151	2.487	0.740	2.353	110-120	1.775	755.9
130.0	2.555	2.286	1.277	2.017	2.555	2.689	0.874	2.689	120-130	1.823	757.7
140.0	2.218	2.151	1.277	2.084	2.286	2.689	0.941	2.555	130-140	1.619	759.3
150.0	1.815	1.681	1.344	1.681	1.815	1.882	1.143	2.017	140-150	1.167	760.5
160.0	1.681	1.344	1.479	1.277	1.613	1.613	1.277	1.613	150-160	0.718	761.2
170.0	1.681	1.412	1.546	1.344	1.613	1.681	1.412	1.681	160-170	0.428	761.6
180.0	1.681	1.479	1.613	1.479	1.748	1.613	1.479	1.613	170-180	0.149	761.8
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:HOPOO HPG1900
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Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.200 m
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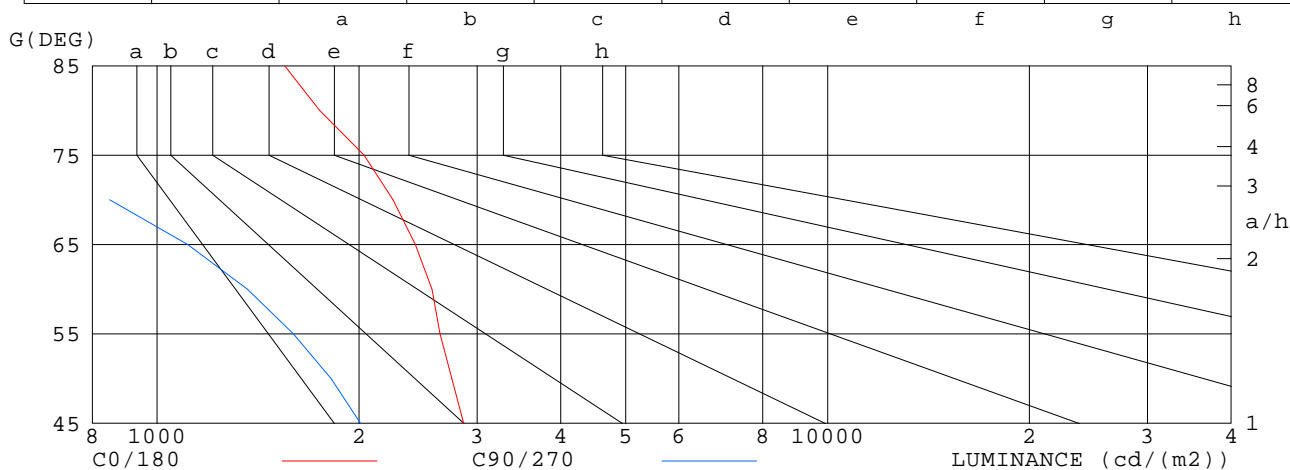
LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER:	Address:	
NAME: NOVATRIS	TYPE:9W 5000K	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	1551	694
80	1746	620
75	2037	636
70	2247	849
65	2426	1111
60	2571	1365
55	2642	1597
50	2752	1817
45	2865	2011

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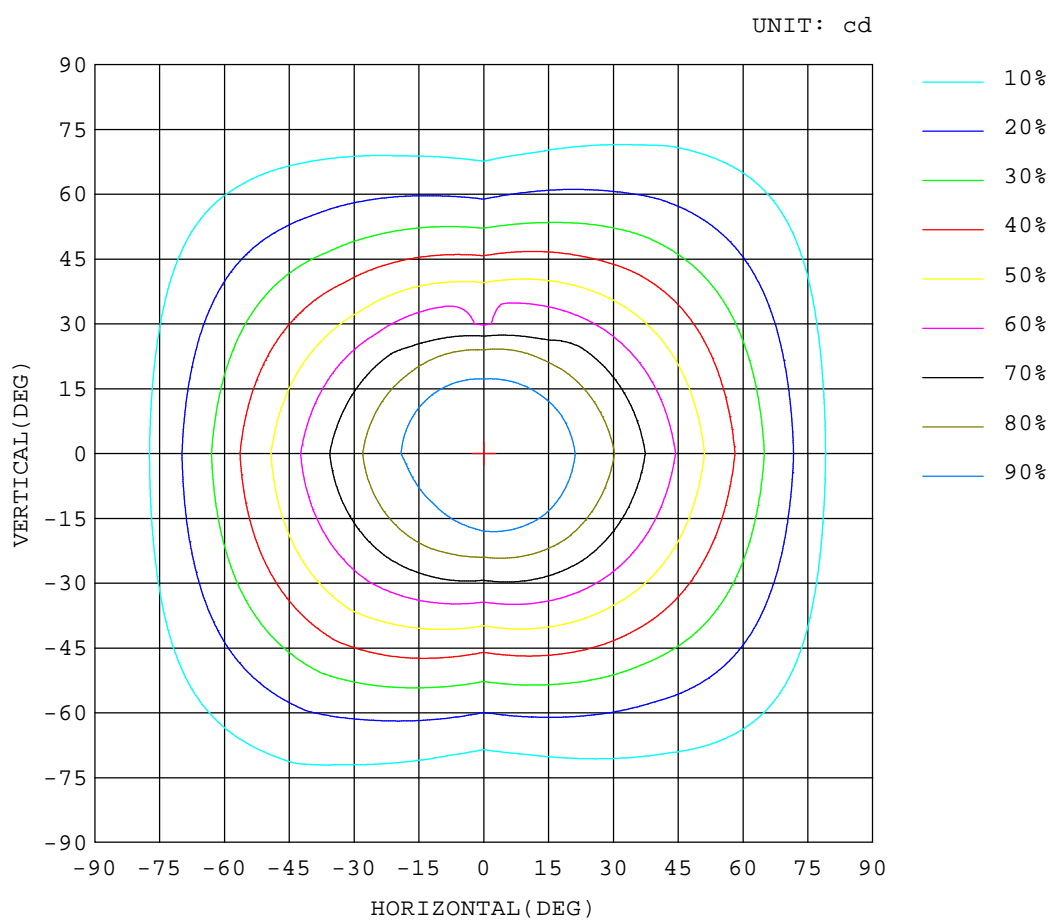
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 Humidity:65.0%
 Test Distance:8.200 m
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:	Address:	
NAME: NOVATRIS	TYPE:9W 5000K	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



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

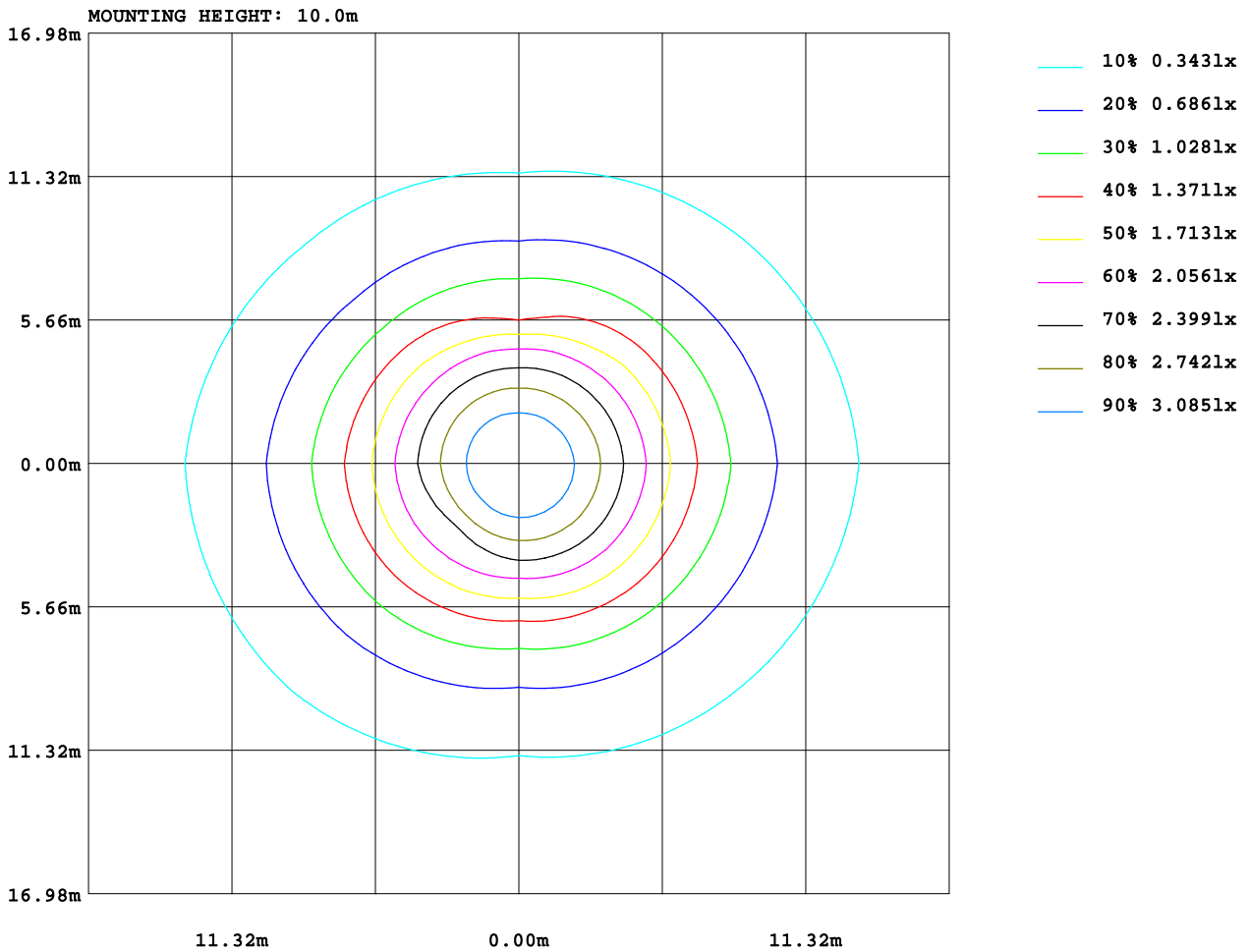
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 Humidity:65.0%
 Test Distance:8.200 m
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Report number:

MANUFACTURER:	Address:	
NAME: NOVATRIS	TYPE:9W 5000K	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 5000K	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	0.20	0.24	0.27	0.27	0.25	0.18	0.12	0.06	0.01	3.06	0.00
80	0.01	0.07	0.18	0.32	0.45	0.55	0.60	0.61	0.56	0.59	0.69	0.72	0.67	0.56	0.39	0.22	0.09	0.02	7.29	0.27
70	0.02	0.11	0.30	0.55	0.81	1.06	1.27	1.39	1.38	1.43	1.53	1.48	1.29	1.01	0.68	0.37	0.14	0.03	14.8	12.6
60	0.02	0.15	0.45	0.86	1.35	1.85	2.31	2.62	2.71	2.77	2.80	2.58	2.16	1.61	1.04	0.55	0.20	0.03	26.1	25.4
50	0.02	0.21	0.62	1.24	1.99	2.76	3.51	4.07	4.31	4.37	4.26	3.80	3.12	2.28	1.44	0.74	0.26	0.04	39.0	38.7
40	0.03	0.26	0.80	1.62	2.64	3.69	4.73	5.61	5.93	6.00	5.82	5.06	4.02	2.91	1.83	0.93	0.32	0.04	52.2	52.0
30	0.03	0.30	0.96	1.97	3.22	4.58	6.01	7.16	7.80	7.86	7.34	6.32	4.90	3.47	2.17	1.09	0.37	0.05	65.6	65.4
	0.04	0.34	1.09	2.26	3.70	5.37	7.12	8.63	9.49	9.50	8.75	7.36	5.64	3.94	2.43	1.22	0.41	0.05	77.3	77.2
	0.04	0.36	1.18	2.45	4.04	5.89	7.75	9.30	10.1	10.1	9.40	7.96	6.13	4.26	2.61	1.31	0.43	0.05	83.5	83.3
	0.04	0.37	1.19	2.48	4.08	5.93	7.75	9.21	10.1	10.2	9.46	7.99	6.14	4.26	2.60	1.30	0.43	0.05	83.7	83.5
	0.04	0.35	1.12	2.33	3.83	5.52	7.21	8.37	9.46	9.63	8.86	7.42	5.66	3.93	2.41	1.21	0.40	0.05	77.8	77.6
-30	0.03	0.31	1.00	2.09	3.43	4.87	6.28	7.42	8.04	8.13	7.56	6.38	4.90	3.44	2.13	1.07	0.36	0.05	67.5	67.3
-40	0.03	0.27	0.86	1.76	2.90	4.11	5.13	5.87	6.19	6.21	5.88	5.07	3.99	2.84	1.78	0.91	0.31	0.04	54.2	53.9
-50	0.03	0.22	0.68	1.40	2.28	3.20	3.92	4.36	4.44	4.42	4.27	3.77	3.01	2.18	1.39	0.72	0.25	0.04	40.6	40.2
-60	0.02	0.16	0.50	1.02	1.64	2.24	2.67	2.92	2.90	2.87	2.82	2.52	2.05	1.52	1.00	0.53	0.19	0.03	27.6	27.0
-70	0.02	0.11	0.33	0.66	1.05	1.36	1.56	1.63	1.55	1.52	1.55	1.44	1.22	0.94	0.64	0.36	0.14	0.02	16.1	14.6
-80	0.01	0.07	0.19	0.37	0.57	0.70	0.75	0.72	0.62	0.61	0.67	0.68	0.62	0.52	0.37	0.21	0.09	0.02	7.79	0.70
-90	0.01	0.04	0.09	0.15	0.23	0.27	0.27	0.26	0.22	0.22	0.25	0.27	0.26	0.23	0.17	0.11	0.05	0.01	3.10	0.00
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)	20	30	40	50	60	70	80	90			
Φ t	0.44	3.73	11.6	23.7	38.4	54.2	69.1	80.4	86.1	86.7	82.2	71.1	56.1	40.2	25.3	12.9	4.51	0.63	762	
Φ a	0.00	2.06	10.1	22.2	36.8	52.5	67.4	78.6	84.3	84.9	80.3	69.3	54.3	38.6	23.8	11.6	3.01	0.00		722

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:

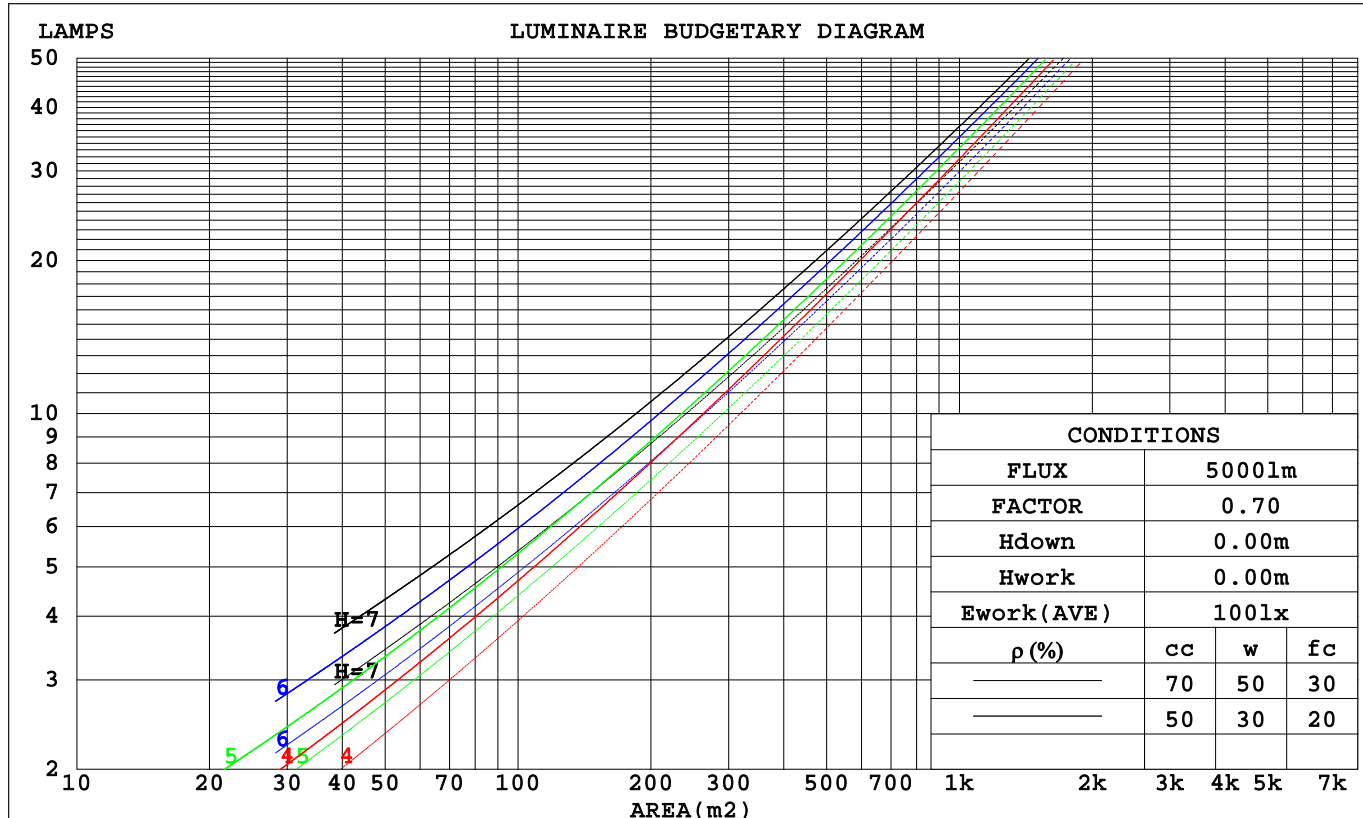
HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER:				Address:			
NAME: NOVATRIS				TYPE:9W 5000K		WEIGHT:	
SPECIFICATION:				DIMENSION:		SERIAL No.:	

ρ_{cc}	80%			70%			50%			30%			10%			0														
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0														
ρ_{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	1.10	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	.92	.86	.81	.90	.85	.80	.87	.82	.78	.83	.79	.76	.80	.77	.74	.72														
3.0	.82	.74	.68	.80	.73	.68	.77	.71	.66	.74	.69	.65	.72	.67	.64	.61														
4.0	.73	.65	.59	.72	.64	.58	.69	.63	.57	.67	.61	.56	.65	.60	.56	.53														
5.0	.66	.58	.51	.65	.57	.51	.63	.56	.50	.61	.54	.50	.59	.53	.49	.47														
6.0	.60	.51	.45	.59	.51	.45	.57	.50	.45	.55	.49	.44	.53	.48	.44	.42														
7.0	.55	.46	.40	.54	.46	.40	.52	.45	.40	.51	.44	.39	.49	.43	.39	.37														
8.0	.50	.42	.36	.49	.42	.36	.48	.41	.36	.47	.40	.36	.45	.40	.35	.33														
9.0	.46	.38	.33	.46	.38	.33	.44	.37	.33	.43	.37	.32	.42	.36	.32	.30														
10.0	.43	.35	.30	.42	.35	.30	.41	.34	.30	.40	.34	.30	.39	.33	.29	.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 5000K			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	.284	.162	.051	.277	.158	.050	.262	.151	.048	.250	.144	.046	.238	.138	.044	
2.0	.268	.147	.045	.262	.144	.044	.249	.139	.043	.238	.133	.042	.227	.129	.041	
3.0	.250	.133	.040	.244	.131	.039	.233	.126	.038	.223	.122	.037	.214	.118	.037	
4.0	.232	.121	.035	.227	.119	.035	.217	.115	.034	.208	.112	.034	.200	.109	.033	
5.0	.216	.110	.032	.211	.108	.032	.203	.106	.031	.195	.103	.031	.187	.100	.030	
6.0	.201	.101	.029	.197	.100	.029	.189	.097	.028	.182	.095	.028	.175	.092	.027	
7.0	.188	.093	.026	.185	.092	.026	.178	.090	.026	.171	.088	.026	.165	.086	.025	
8.0	.176	.086	.024	.173	.085	.024	.167	.083	.024	.161	.082	.024	.156	.080	.023	
9.0	.166	.080	.022	.163	.079	.022	.157	.078	.022	.152	.076	.022	.147	.075	.022	
10.0	.157	.075	.021	.154	.074	.021	.149	.073	.021	.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	.203	.203	.203	.174	.174	.174	.119	.119	.119	.068	.068	.068	.022	.022	.022	
1.0	.192	.169	.149	.164	.145	.129	.112	.100	.089	.065	.058	.052	.021	.019	.017	
2.0	.182	.145	.114	.156	.125	.099	.107	.086	.069	.062	.050	.040	.020	.016	.013	
3.0	.174	.127	.090	.149	.110	.078	.102	.076	.055	.059	.045	.032	.019	.014	.011	
4.0	.166	.114	.074	.142	.098	.064	.098	.069	.045	.057	.040	.027	.018	.013	.009	
5.0	.158	.103	.063	.136	.089	.054	.094	.062	.038	.054	.037	.023	.017	.012	.008	
6.0	.151	.095	.054	.130	.082	.047	.090	.057	.033	.052	.034	.020	.017	.011	.007	
7.0	.145	.088	.048	.125	.076	.042	.086	.053	.030	.050	.031	.018	.016	.010	.006	
8.0	.139	.082	.043	.119	.071	.038	.083	.050	.027	.048	.029	.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	.004	

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 5000K			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	16.0	17.4	16.3	17.6	17.8	13.9	15.3	14.2	15.5	15.7
3H	17.4	18.7	17.7	18.9	19.2	14.5	15.8	14.8	16.0	16.3
4H	17.9	19.2	18.3	19.4	19.7	14.6	15.8	15.0	16.1	16.4
6H	18.3	19.4	18.6	19.7	20.0	14.7	15.9	15.1	16.2	16.5
8H	18.4	19.5	18.7	19.8	20.1	14.7	15.9	15.1	16.2	16.5
12H	18.4	19.5	18.8	19.8	20.1	14.8	15.8	15.1	16.2	16.5
4H 2H	16.2	17.4	16.6	17.7	18.0	14.5	15.8	14.9	16.0	16.3
3H	17.8	18.9	18.2	19.2	19.5	15.3	16.4	15.7	16.7	17.0
4H	18.5	19.4	18.9	19.8	20.1	15.6	16.6	16.0	16.9	17.3
6H	18.9	19.8	19.4	20.2	20.6	15.8	16.6	16.2	17.0	17.4
8H	19.1	19.9	19.5	20.3	20.7	15.9	16.7	16.3	17.1	17.5
12H	19.2	19.9	19.6	20.3	20.8	15.9	16.7	16.4	17.1	17.5
8H 4H	18.5	19.3	19.0	19.7	20.1	15.9	16.7	16.3	17.1	17.5
6H	19.1	19.8	19.6	20.2	20.7	16.3	16.9	16.7	17.4	17.8
8H	19.3	19.9	19.8	20.4	20.9	16.4	17.0	16.9	17.5	18.0
12H	19.5	20.0	20.0	20.5	21.0	16.6	17.1	17.1	17.6	18.1
12H 4H	18.5	19.2	18.9	19.6	20.1	15.9	16.7	16.4	17.1	17.5
6H	19.1	19.7	19.6	20.2	20.7	16.4	17.0	16.9	17.4	17.9
8H	19.4	19.9	19.9	20.4	20.9	16.6	17.1	17.1	17.6	18.1
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 / - 0.4				
2.0H	+ 0.5 / - 0.6					+ 0.4 / - 1.0				

CIE Pub.117 Corrected 761.8 lm Total Lamp Luminous Flux.(8log(F/F0) = -0.9)

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 5000K	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	50	44	60	50	44	59	50	44	37
0.80	71	60	54	70	60	53	68	59	53	46
1.00	79	69	62	78	68	62	76	69	61	55
1.25	86	76	70	84	76	69	82	74	68	61
1.50	91	82	75	89	81	75	86	79	73	66
2.00	97	89	83	95	88	82	91	85	81	73
2.50	100	93	88	98	92	87	94	89	85	76
3.00	103	97	92	101	95	91	97	92	88	80
4.00	107	102	97	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

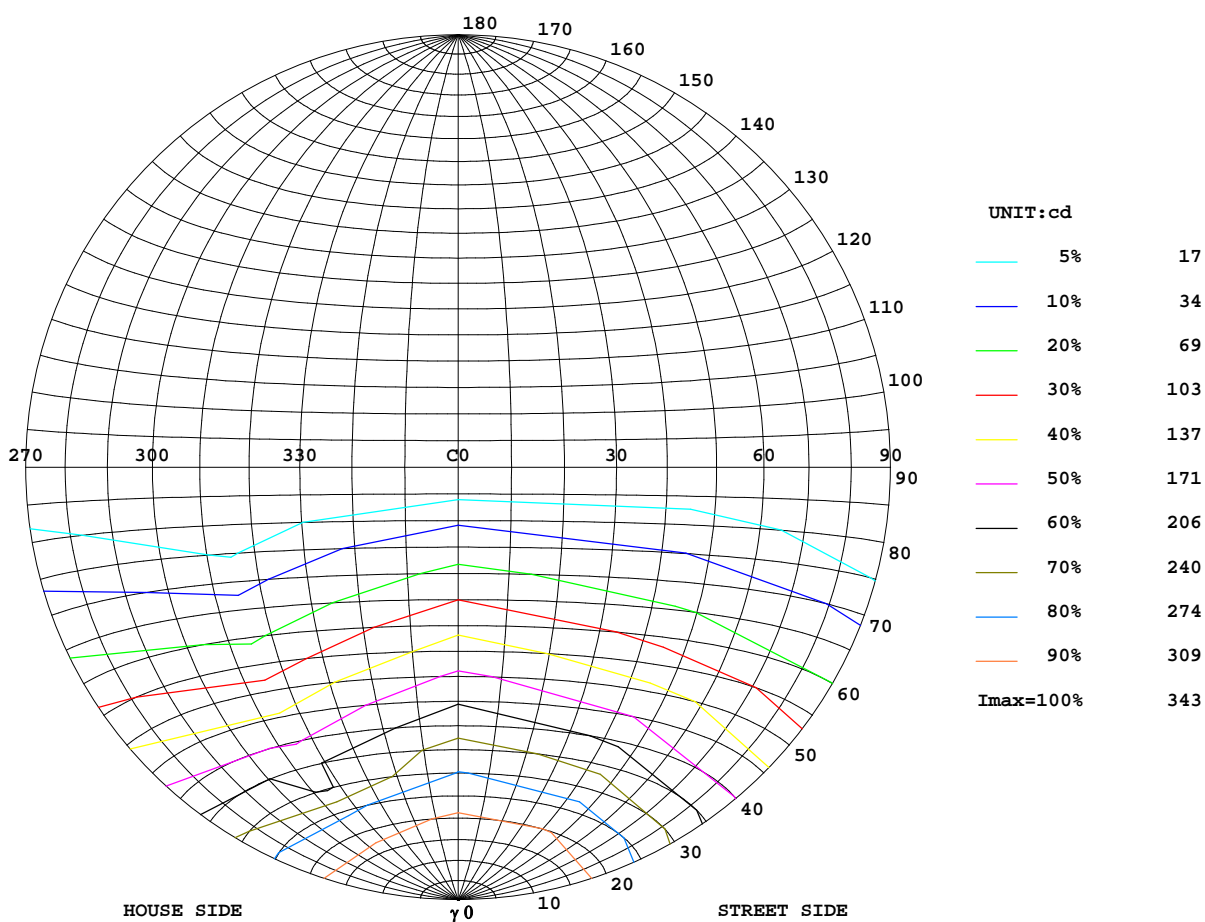
Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.200 m
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:	Address:	
NAME: NOVATRIS	TYPE:9W 5000K	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:

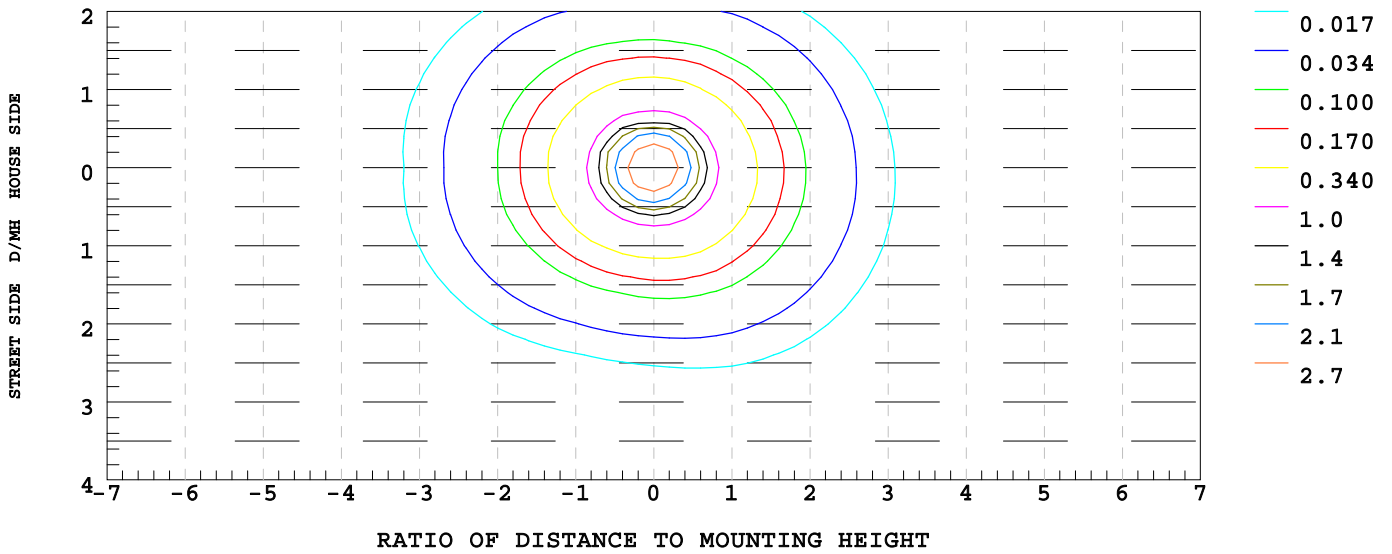
HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Report number:

MANUFACTURER:	Address:	
NAME: NOVATRIS	TYPE:9W 5000K	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

ILLUMINANCE AT MH=10 m,Enadir = 3.43 lx



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

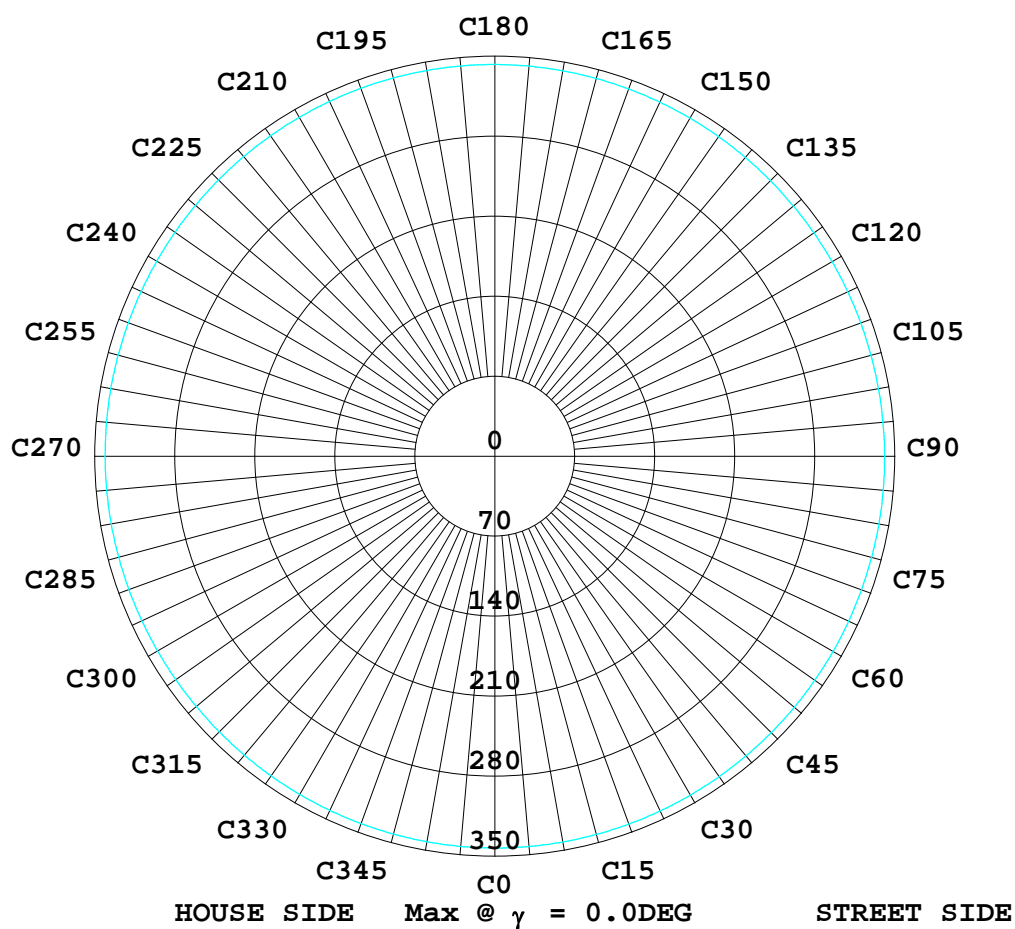
Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.200 m
 Remarks:

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:	Address:	
NAME: NOVATRIS	TYPE:9W 5000K	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 5000K	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

UNIT: cd

γ (DEG)	C (DEG)							
	0	45	90	135	180	225	270	315
0.0	343	342	341	341	343	342	341	341
5.0	342	342	340	338	341	339	339	338
10.0	336	335	336	332	332	333	330	332
15.0	326	326	321	320	322	320	318	320
20.0	313	308	300	278	306	301	296	305
25.0	295	286	268	278	288	275	268	281
30.0	275	259	236	252	265	247	201	256
35.0	252	229	202	226	243	215	201	227
40.0	227	200	171	201	218	186	168	199
45.0	203	171	142	177	192	157	141	172
50.0	177	145	117	153	167	134	115	147
55.0	152	118	91.5	127	144	109	86.4	125
60.0	129	94.1	68.2	103	118	85.6	63.0	99.7
65.0	103	71.0	46.9	79.1	92.4	63.1	42.6	76.4
70.0	76.8	50.9	29.0	57.9	67.6	43.9	26.4	54.9
75.0	52.7	34.3	16.4	39.8	43.7	29.3	15.7	37.9
80.0	30.3	22.1	10.7	25.0	23.4	19.8	10.3	24.2
85.0	13.5	12.9	6.05	13.2	8.60	12.4	4.90	13.5
90.0	4.16	5.58	2.75	4.70	2.28	6.92	2.08	6.65
95.0	3.42	3.29	2.15	2.75	2.08	3.96	1.27	4.16
100.0	2.89	1.61	1.81	1.41	1.81	2.55	0.81	3.09
105.0	2.68	1.41	1.54	1.14	1.74	2.35	0.74	2.55
110.0	2.55	1.54	1.27	1.21	1.74	2.35	0.54	2.35
115.0	2.62	1.81	1.07	1.41	1.88	2.42	0.61	2.28
120.0	2.68	2.08	1.27	1.68	2.15	2.48	0.74	2.35
125.0	2.68	2.21	1.27	1.88	2.42	2.48	0.74	2.62
130.0	2.55	2.28	1.27	2.01	2.55	2.68	0.87	2.68
135.0	2.35	2.28	1.27	2.15	2.48	2.75	0.87	2.68
140.0	2.21	2.15	1.27	2.08	2.28	2.68	0.94	2.55
145.0	2.01	1.94	1.27	1.88	2.01	2.35	1.07	2.28
150.0	1.81	1.68	1.34	1.68	1.81	1.88	1.14	2.01
155.0	1.74	1.34	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	1.27	1.68
170.0	1.68	1.41	1.54	1.34	1.61	1.68	1.41	1.68
175.0	1.68	1.47	1.61	1.41	1.68	1.68	1.41	1.61
180.0	1.68	1.47	1.61	1.47	1.74	1.61	1.47	1.61

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