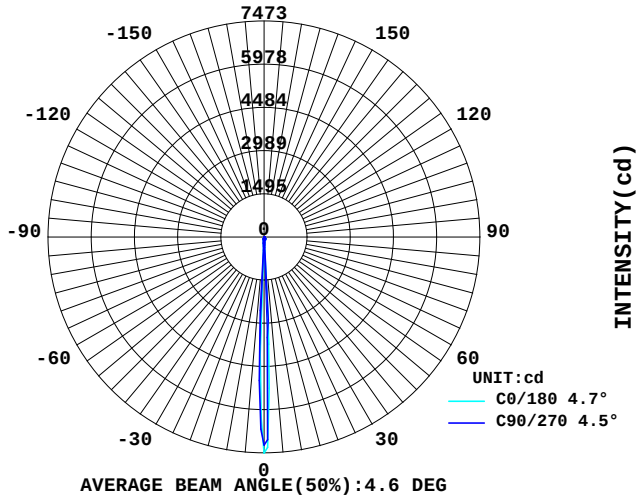
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

MANUFACTURER: Havit Commercial		
Address:		
NAME: HCP-251034	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

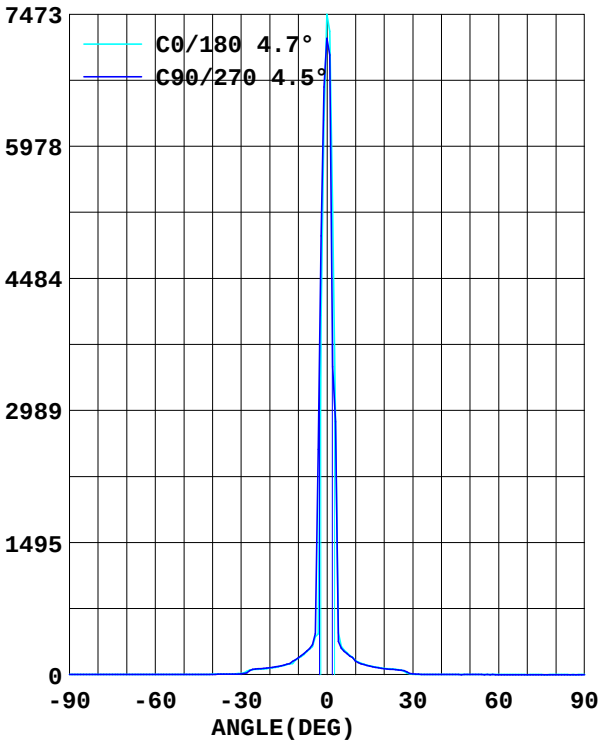
DATA OF LAMP		Imax(cd)	9054	S/MH(C0/180)	0.06
MODEL		EFFICIENCY(%)	100.0	S/MH(C90/270)	0.08
NOMINAL POWER(W)	2	TOTAL FLUX(lm)	124.46	Voltage(V)	23.87
RATED VOLTAGE(V)	24	EFFICIENCY(lm/W)	52.1	Current(A)	0.099
NOMINAL FLUX(lm)	124.5	η up(%)	1.7	Power(W)	2.390
LAMPS QUANTITY	1	η down(%)	98.3	Power Factor(PF)	1.000
TEST VOLTAGE(V)	23.9	Effictive Flux(lm)	43.0	EEI	0.303

LUMINOUS INTENSITY DISTRIBUTION



AVERAGE BEAM ANGLE(50%):4.6 DEG

LUMINOUS INTENSITY DISTRIBUTION



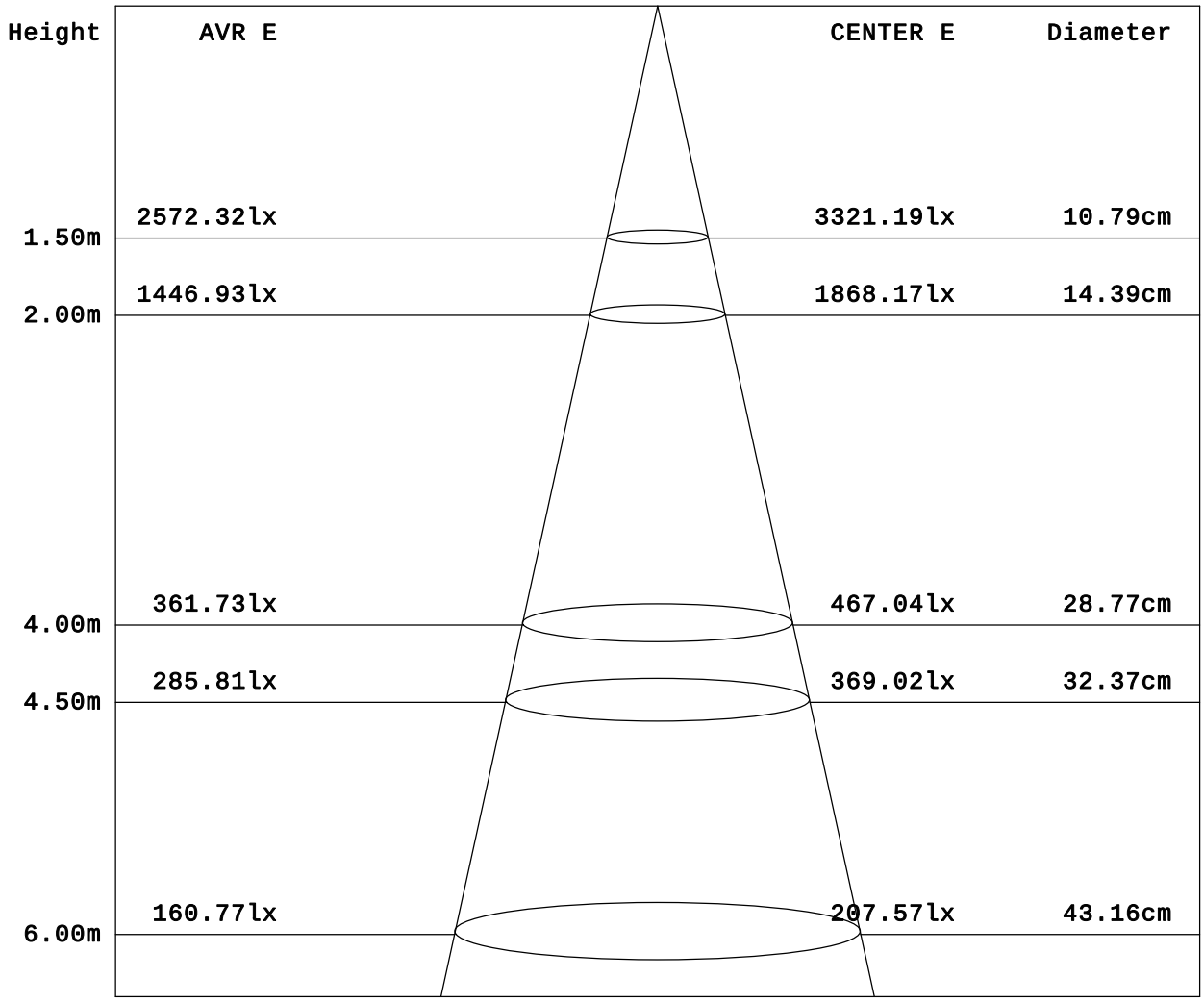
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月08日

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.300 m
Remarks:

AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER: Havit Commercial		
Address:		
NAME: HCP-251034	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



Angle:4.1deg

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月08日

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.300 m
Remarks:

ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER: Havit Commercial		
Address:		
NAME: HCP-251034	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	zone	total
5.0	318.2	299.3	338.2	303.5	320.8	360.8	300.4	310.9	0- 5	47.98	47.98
10.0	184.9	155.2	188.6	156.3	157.6	181.8	152.6	183.3	5- 10	16.64	64.62
15.0	104.4	95.34	107.4	97.68	100.7	106.6	95.41	103.4	10- 15	15.09	79.72
20.0	72.67	67.16	78.74	70.61	71.43	77.84	68.13	74.67	15- 20	13.98	93.70
25.0	58.14	53.59	63.03	56.35	57.04	61.65	52.21	58.07	20- 25	13.43	107.1
30.0	14.12	8.129	10.12	3.720	5.648	15.70	9.782	14.05	25- 30	8.698	115.8
35.0	4.891	1.102	4.477	0.758	1.171	4.891	1.308	4.684	30- 35	1.523	117.3
40.0	3.788	0.482	3.513	0.482	0.827	3.651	0.413	3.582	35- 40	0.822	118.1
45.0	3.100	0.482	2.893	0.276	0.344	2.893	0.344	2.893	40- 45	0.684	118.8
50.0	2.548	0.069	2.342	0.069	0.344	2.273	0.207	2.342	45- 50	0.579	119.4
55.0	2.204	0.138	1.722	0	0.276	1.928	0	1.928	50- 55	0.504	119.9
60.0	1.860	0	1.722	0	0.276	1.722	0	1.584	55- 60	0.438	120.3
65.0	1.446	0	1.446	0	0.207	1.515	0	1.240	60- 65	0.393	120.7
70.0	1.240	0	1.240	0	0	1.171	0	1.033	65- 70	0.354	121.1
75.0	1.377	0	1.171	0	0.138	1.171	0	1.171	70- 75	0.330	121.4
80.0	1.240	0	0.827	0	0.138	1.033	0	0.964	75- 80	0.297	121.7
85.0	1.033	0	0.758	0	0	0.964	0	0.896	80- 85	0.276	122.0
90.0	0.964	0	0.896	0	0.069	0.827	0	0.689	85- 90	0.253	122.2
95.0	0.758	0	0.758	0	0.207	0.827	0	0.551	90- 95	0.230	122.5
100.0	0.758	0	0.689	0	0.207	0.758	0	0.689	95-100	0.218	122.7
105.0	0.758	0	0.413	0	0.069	0.482	0	0.620	100-105	0.191	122.9
110.0	0.620	0	0.344	0	0.276	0.620	0	0.344	105-110	0.170	123.1
115.0	0.689	0	0.551	0	0.276	0.413	0	0.276	110-115	0.160	123.2
120.0	0.620	0	0.482	0	0.276	0.344	0	0.413	115-120	0.141	123.4
125.0	0.413	0	0.482	0	0	0.551	0	0.138	120-125	0.117	123.5
130.0	0.551	0	0.413	0	0.276	0.344	0	0.207	125-130	0.101	123.6
135.0	0.551	0	0.413	0	0.344	0.207	0	0.413	130-135	0.098	123.7
140.0	0.551	0	0.413	0	0.276	0.413	0	0.413	135-140	0.097	123.8
145.0	0.276	0.069	0.413	0	0.413	0.413	0	0.482	140-145	0.089	123.9
150.0	0.620	0.138	0.482	0.069	0.482	0.276	0.069	0.413	145-150	0.087	123.9
155.0	0.620	0.344	0.620	0.207	0.896	0.758	0.344	0.689	150-155	0.104	124.0
160.0	0.620	0.551	0.620	0.138	0.827	0.689	0.207	0.758	155-160	0.123	124.2
165.0	0.620	0.620	0.620	0.482	0.689	0.896	0.276	0.827	160-165	0.103	124.3
170.0	0.827	0.689	0.758	0.551	0.896	0.964	0.482	0.827	165-170	0.081	124.4
175.0	0.689	0.620	0.689	0.551	0.896	0.689	0.413	0.896	170-175	0.051	124.4
180.0	0.689	0.482	0.620	0.413	0.964	0.620	0.413	0.551	175-180	0.015	124.4
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月08日

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.300 m
Remarks:

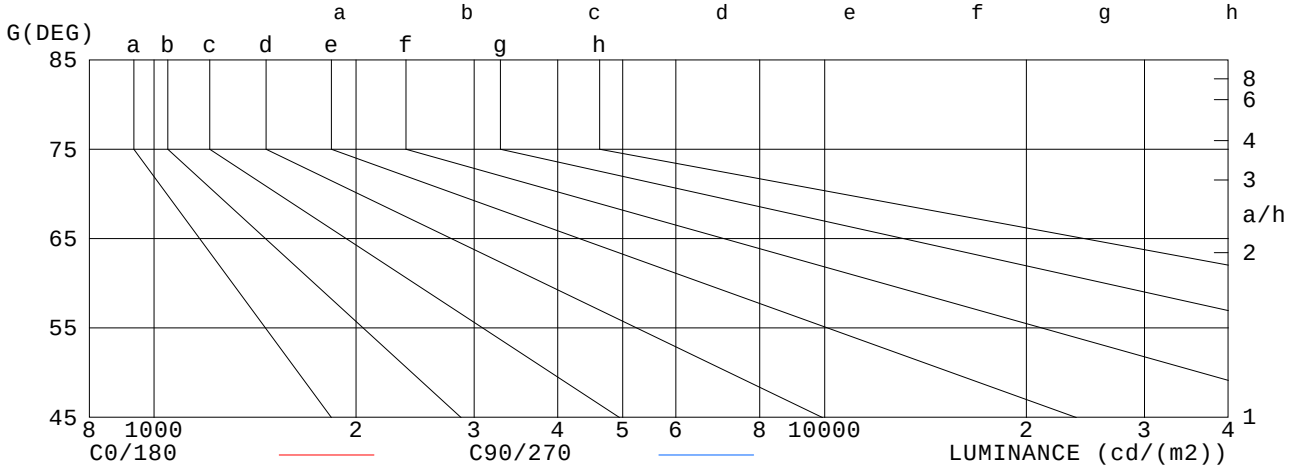
LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER: Havit Commercial		
Address:		
NAME: HCP-251034	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
		a	b	c	d	e	f	g	h



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	119	87
80	71	48
75	53	45
70	36	36
65	34	34
60	37	34
55	38	30
50	40	36
45	44	41

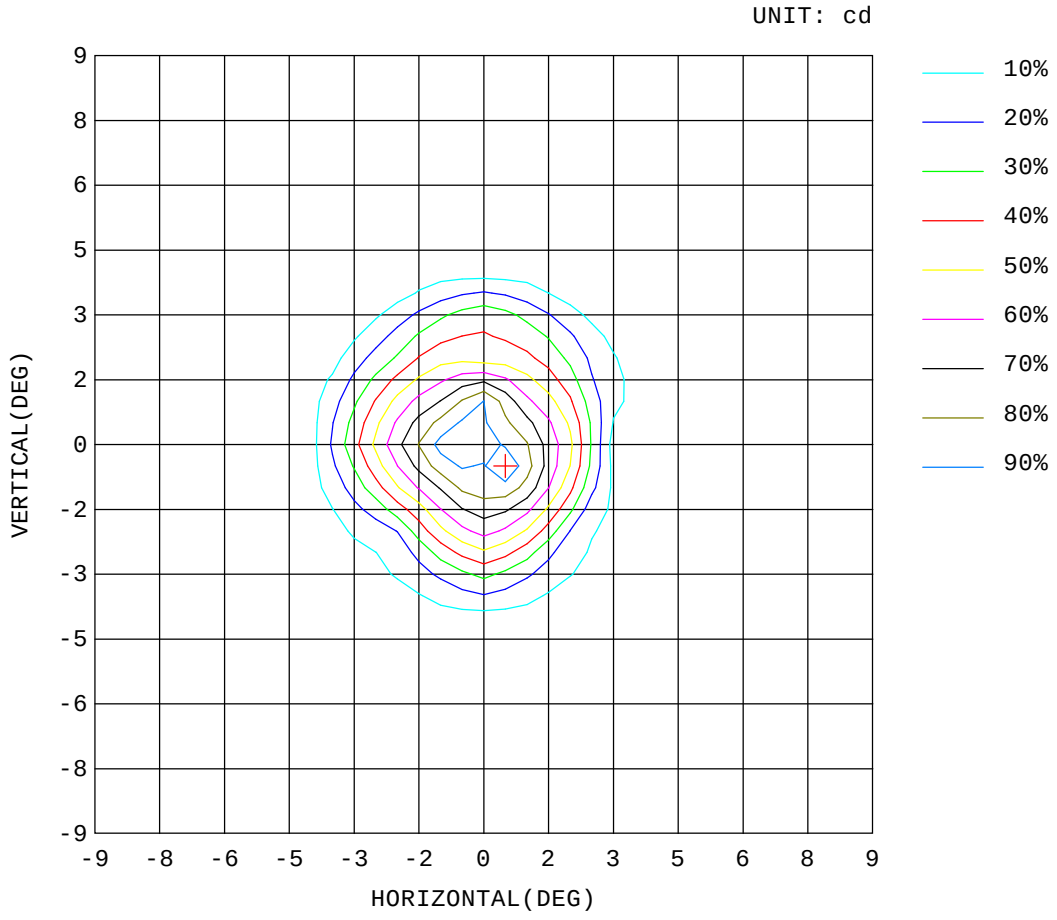
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月08日

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.300 m
Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: Havit Commercial		
Address:		
NAME: HCP-251034	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



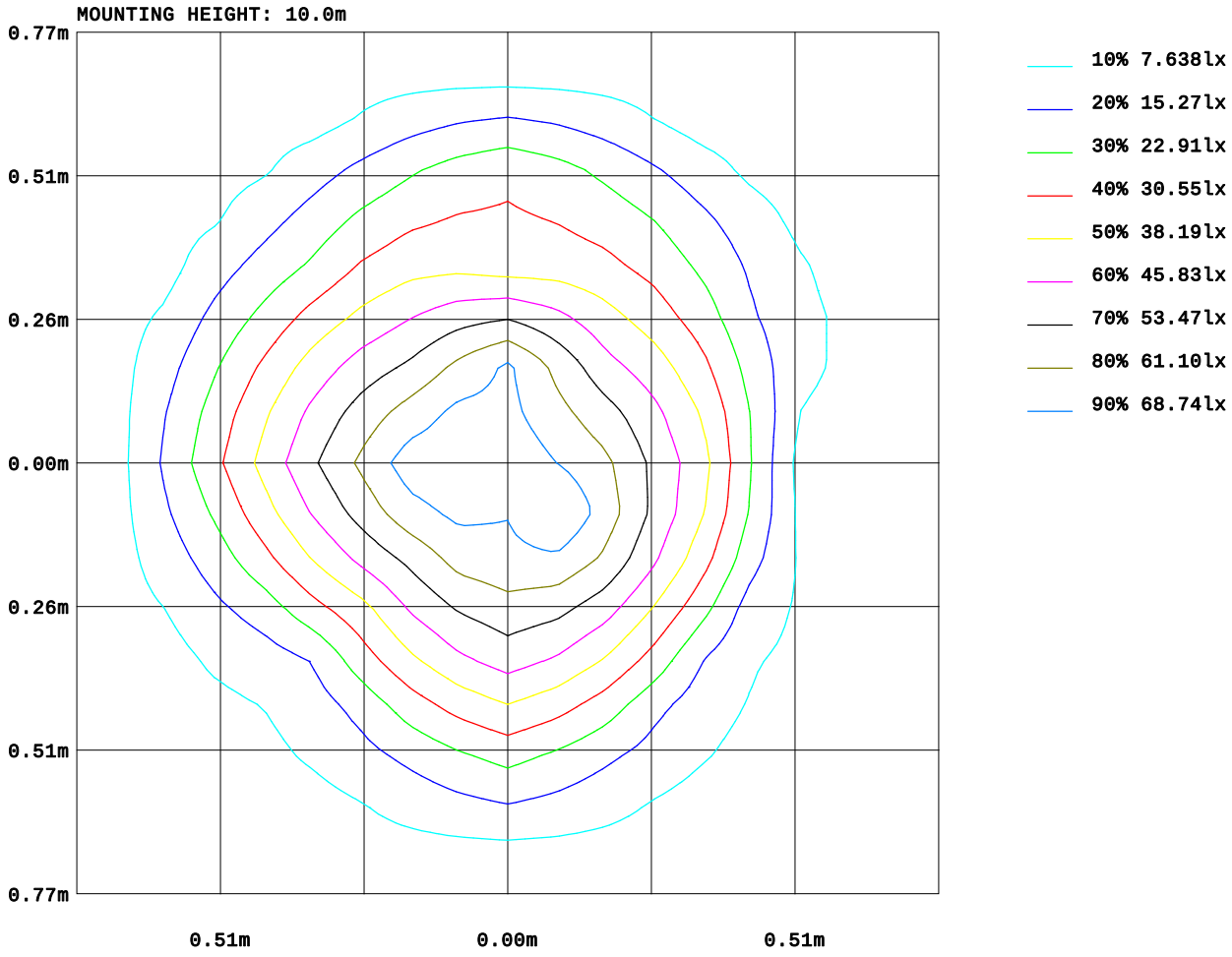
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月08日

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.300 m
Remarks:

ISOLUX DIAGRAM

Report number:

MANUFACTURER: Havit Commercial		
Address:		
NAME: HCP-251034	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月08日

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.300 m
Remarks:

AREA LUMINOUS FLUX

Report number:

MANUFACTURER: Havit Commercial		
Address:		
NAME: HCP-251034	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

AREA FLUX DIAGRAM — UNIT:lm

VERTICAL(DEG)	-9	-8	-7	-6	-5	-4	-3	-2	2	3	4	5	6	7	8	9	Φ t	Φ a
9	0.04	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.04	0.04	0.97	0.00
8	0.05	0.05	0.05	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.05	0.04	1.08	0.00
7	0.05	0.05	0.06	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.06	0.06	0.06	0.05	1.20	0.00
6	0.05	0.06	0.07	0.07	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.08	0.08	0.08	0.07	0.06	0.06	0.05	1.33	0.00
5	0.06	0.06	0.07	0.08	0.09	0.09	0.10	0.11	0.11	0.10	0.10	0.09	0.09	0.08	0.08	0.07	0.06	0.06	1.50	0.00
4	0.06	0.07	0.08	0.08	0.10	0.11	0.14	0.25	0.45	0.44	0.24	0.12	0.10	0.09	0.08	0.07	0.07	0.06	2.59	1.14
3	0.06	0.07	0.08	0.09	0.10	0.14	0.37	0.74	0.95	0.92	0.69	0.33	0.12	0.09	0.09	0.08	0.07	0.06	5.06	4.01
	0.06	0.07	0.08	0.09	0.11	0.27	0.76	1.21	1.53	1.45	1.04	0.49	0.17	0.10	0.09	0.08	0.07	0.06	7.75	6.75
	0.06	0.07	0.08	0.09	0.12	0.46	1.12	1.73	2.16	1.94	1.45	0.68	0.17	0.11	0.09	0.08	0.07	0.06	10.5	9.56
	0.06	0.07	0.08	0.09	0.12	0.44	1.07	1.72	2.15	2.36	1.57	0.66	0.15	0.11	0.09	0.08	0.07	0.06	10.9	9.99
	0.06	0.07	0.08	0.09	0.11	0.23	0.57	1.07	1.64	1.69	1.14	0.34	0.15	0.10	0.09	0.08	0.07	0.06	7.66	6.47
-3	0.06	0.07	0.07	0.08	0.09	0.13	0.23	0.54	1.00	1.01	0.53	0.21	0.12	0.09	0.08	0.08	0.07	0.06	4.54	3.09
-4	0.06	0.06	0.07	0.08	0.09	0.10	0.13	0.22	0.40	0.40	0.21	0.12	0.09	0.09	0.08	0.07	0.06	0.06	2.38	0.80
-5	0.05	0.06	0.07	0.07	0.08	0.09	0.09	0.11	0.12	0.12	0.11	0.09	0.09	0.08	0.07	0.07	0.06	0.05	1.48	0.00
-6	0.05	0.06	0.06	0.07	0.07	0.08	0.09	0.09	0.10	0.10	0.09	0.09	0.08	0.07	0.07	0.06	0.06	0.05	1.31	0.00
-7	0.04	0.05	0.06	0.06	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.06	0.06	0.05	0.04	1.19	0.00
-8	0.04	0.04	0.05	0.06	0.06	0.07	0.07	0.07	0.08	0.08	0.07	0.07	0.07	0.06	0.06	0.05	0.04	0.04	1.07	0.00
-9	0.04	0.04	0.05	0.05	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.05	0.05	0.04	0.04	0.97	0.00
Φ t	0.95	1.06	1.19	1.33	1.53	2.61	5.18	8.33	11.1	11.0	7.69	3.71	1.80	1.47	1.32	1.20	1.07	0.97	124	
Φ a	0.00	0.00	0.00	0.00	0.00	1.16	3.90	7.29	10.3	10.2	6.43	2.49	0.00	0.00	0.00	0.00	0.00	0.00		43

HORIZONTAL(DEG)

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月08日

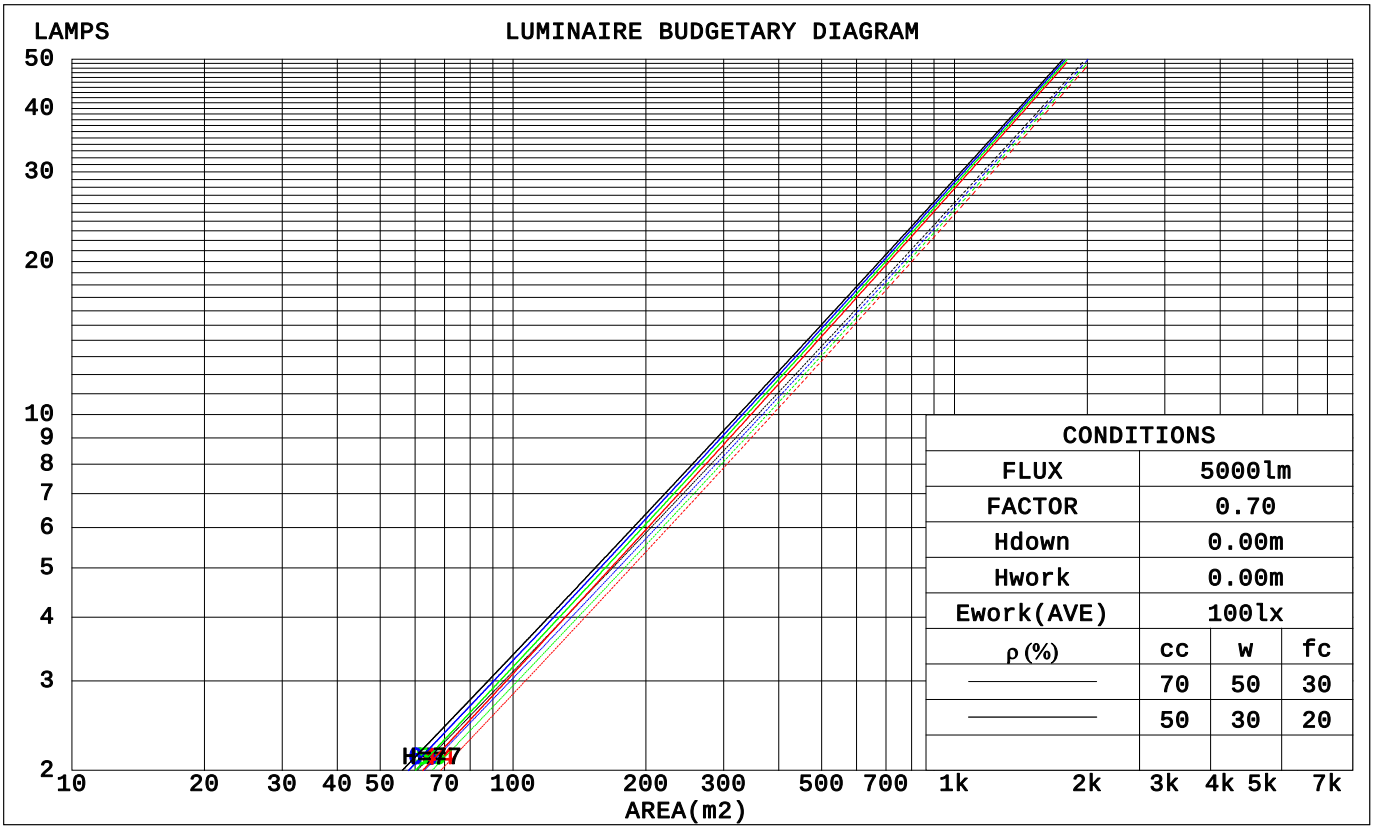
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.300 m
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER: Havit Commercial		
Address:		
NAME: HCP-251034	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			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	1.12	1.10	1.09	1.10	1.08	1.07	1.06	1.04	1.03	1.02	1.01	.00	.98	.97	.97	.95
2.0	1.07	1.04	1.02	1.05	1.03	1.00	1.02	.00	.98	.99	.97	.96	.96	.95	.94	.92
3.0	1.03	.99	.97	1.01	.98	.96	.99	.96	.94	.96	.94	.92	.94	.92	.91	.89
4.0	.99	.95	.92	.98	.95	.92	.96	.93	.91	.94	.91	.89	.92	.90	.88	.87
5.0	.96	.92	.89	.95	.91	.89	.93	.90	.88	.92	.89	.87	.90	.88	.86	.85
6.0	.93	.89	.86	.92	.89	.86	.91	.88	.85	.90	.87	.85	.88	.86	.84	.83
7.0	.91	.87	.84	.90	.86	.84	.89	.86	.83	.88	.85	.83	.86	.84	.82	.81
8.0	.88	.84	.82	.88	.84	.82	.87	.84	.81	.86	.83	.81	.85	.82	.80	.79
9.0	.86	.82	.80	.86	.82	.80	.85	.82	.79	.84	.81	.79	.83	.81	.79	.78
10.0	.84	.81	.78	.84	.80	.78	.83	.80	.78	.82	.80	.78	.82	.79	.77	.76



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月08日

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.300 m
Remarks:

WEC AND CCEC

Report number:

MANUFACTURER: Havit Commercial		
Address:		
NAME: HCP-251034	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 Coeffcients(WEC)									
0.0																
1.0	.139	.079	.025	.132	.075	.024	.119	.068	.022	.106	.061	.020	.095	.055	.018	
2.0	.127	.069	.021	.121	.066	.020	.110	.061	.019	.099	.056	.017	.090	.051	.016	
3.0	.116	.062	.019	.111	.060	.018	.102	.055	.017	.093	.051	.016	.085	.047	.015	
4.0	.108	.056	.016	.104	.054	.016	.096	.051	.015	.088	.047	.014	.081	.044	.013	
5.0	.100	.051	.015	.097	.050	.014	.090	.047	.014	.084	.044	.013	.078	.042	.012	
6.0	.094	.047	.014	.091	.046	.013	.085	.044	.013	.080	.041	.012	.074	.039	.012	
7.0	.089	.044	.012	.086	.043	.012	.081	.041	.012	.076	.039	.011	.071	.037	.011	
8.0	.084	.041	.012	.081	.040	.011	.077	.038	.011	.073	.037	.011	.069	.035	.010	
9.0	.080	.038	.011	.077	.038	.011	.073	.036	.010	.070	.035	.010	.066	.034	.010	
10.0	.076	.036	.010	.074	.036	.010	.070	.034	.010	.067	.033	.009	.064	.032	.009	

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	.182	.171	.161	.156	.147	.139	.106	.101	.096	.061	.058	.056	.020	.019	.018	
2.0	.164	.146	.132	.140	.126	.114	.096	.087	.079	.055	.051	.046	.018	.016	.015	
3.0	.148	.127	.110	.127	.109	.095	.087	.076	.067	.050	.044	.039	.016	.014	.013	
4.0	.136	.111	.093	.116	.096	.081	.080	.067	.057	.046	.039	.034	.015	.013	.011	
5.0	.125	.099	.080	.107	.086	.070	.074	.060	.049	.043	.035	.029	.014	.011	.010	
6.0	.116	.089	.070	.099	.077	.061	.068	.054	.043	.040	.032	.026	.013	.010	.008	
7.0	.108	.081	.062	.093	.070	.054	.064	.049	.038	.037	.029	.023	.012	.009	.008	
8.0	.101	.074	.056	.087	.064	.048	.060	.045	.034	.035	.027	.020	.011	.009	.007	
9.0	.095	.068	.050	.082	.059	.044	.057	.042	.031	.033	.025	.019	.011	.008	.006	
10.0	.090	.063	.046	.077	.055	.040	.054	.039	.028	.031	.023	.017	.010	.008	.006	

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月08日

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.300 m
Remarks:

Uncorrected UGR Table

Report number:

MANUFACTURER: Havit Commercial		
Address:		
NAME: HCP-251034	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	-9.0	-8.4	-8.8	-8.2	-8.0	-10.0	-9.4	-9.8	-9.3	-9.1
3H	-6.7	-6.1	-6.4	-5.9	-5.7	-7.5	-7.0	-7.3	-6.8	-6.5
4H	-5.2	-4.6	-4.9	-4.4	-4.1	-6.1	-5.6	-5.8	-5.3	-5.1
6H	-3.3	-2.8	-3.0	-2.6	-2.3	-4.4	-3.9	-4.1	-3.6	-3.3
8H	-2.3	-1.8	-2.0	-1.5	-1.2	-3.4	-2.9	-3.1	-2.7	-2.4
12H	-1.1	-0.6	-0.8	-0.4	-0.1	-2.4	-1.9	-2.0	-1.6	-1.3
4H 2H	-9.1	-8.6	-8.9	-8.4	-8.1	-10.1	-9.6	-9.8	-9.3	-9.1
3H	-6.7	-6.2	-6.3	-5.9	-5.6	-7.5	-7.0	-7.2	-6.7	-6.4
4H	-4.9	-4.5	-4.6	-4.2	-3.8	-5.9	-5.4	-5.5	-5.1	-4.8
6H	-2.8	-2.4	-2.4	-2.0	-1.7	-3.8	-3.4	-3.5	-3.1	-2.7
8H	-1.5	-1.2	-1.1	-0.8	-0.4	-2.7	-2.3	-2.3	-2.0	-1.6
12H	-0.1	0.2	0.3	0.6	1.0	-1.4	-1.0	-1.0	-0.6	-0.2
8H 4H	-5.0	-4.6	-4.6	-4.3	-3.9	-6.0	-5.6	-5.5	-5.2	-4.8
6H	-2.7	-2.4	-2.3	-2.0	-1.6	-3.8	-3.5	-3.3	-3.1	-2.6
8H	-1.3	-1.0	-0.8	-0.6	-0.1	-2.5	-2.2	-2.0	-1.7	-1.3
12H	0.4	0.6	0.9	1.1	1.6	-0.9	-0.7	-0.4	-0.2	0.3
12H 4H	-5.0	-4.7	-4.6	-4.3	-3.9	-5.9	-5.6	-5.5	-5.2	-4.8
6H	-2.8	-2.5	-2.3	-2.1	-1.6	-3.8	-3.5	-3.3	-3.1	-2.6
8H	-1.3	-1.1	-0.8	-0.6	-0.1	-2.5	-2.2	-2.0	-1.8	-1.3
Variations with the observer position at spacings:										
S = 1.0H	+ 0.4 / - 0.1					+ 0.4 / - 0.3				
1.5H	+ 0.7 / - 0.8					+ 0.7 / - 0.9				
2.0H	+ 1.2 / - 1.1					+ 1.1 / - 1.9				

CIE Pub.117 Corrected 124.4 lm Total Lamp Luminous Flux.(8log(F/F0) = -7.2)

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月08日

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.300 m
Remarks:

UTILIZATION FACTORS TABLE

Report number:

MANUFACTURER: Havit Commercial		
Address:		
NAME: HCP-251034	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) x RCR = 5									
k = 0.60	88	82	79	88	82	79	87	82	79	75
0.80	96	90	86	95	90	86	94	89	86	82
1.00	99	94	91	99	94	90	97	93	90	86
1.25	103	98	95	102	97	94	100	96	93	89
1.50	106	101	98	104	100	97	102	99	96	91
2.00	108	104	101	107	103	100	104	101	98	93
2.50	110	106	103	108	105	102	105	102	100	94
3.00	111	108	105	109	106	104	106	103	102	95
4.00	113	111	108	111	109	107	107	105	104	96
5.00	115	112	110	112	110	109	108	107	105	97
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended					SHRNOM = 1.25	

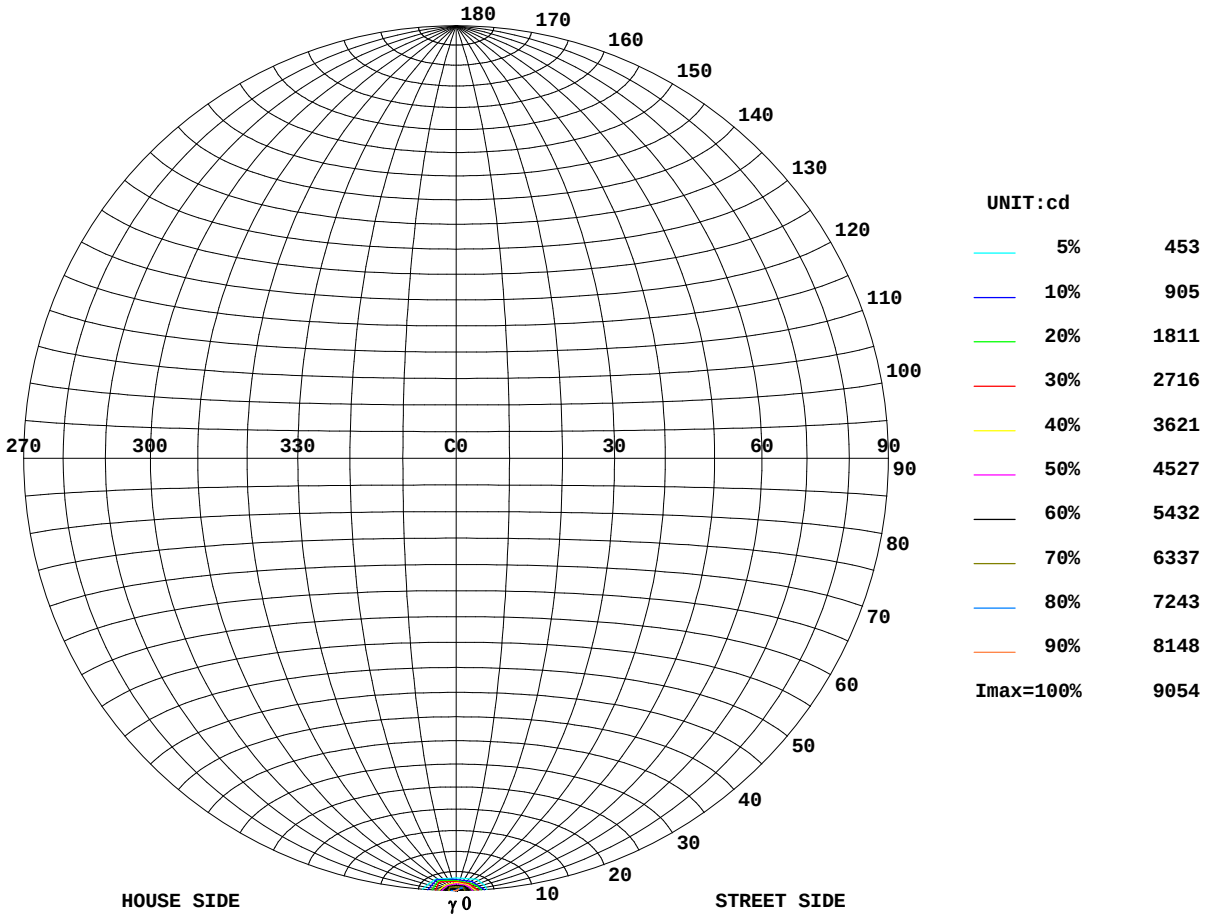
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月08日

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.300 m
Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: Havit Commercial		
Address:		
NAME: HCP-251034	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



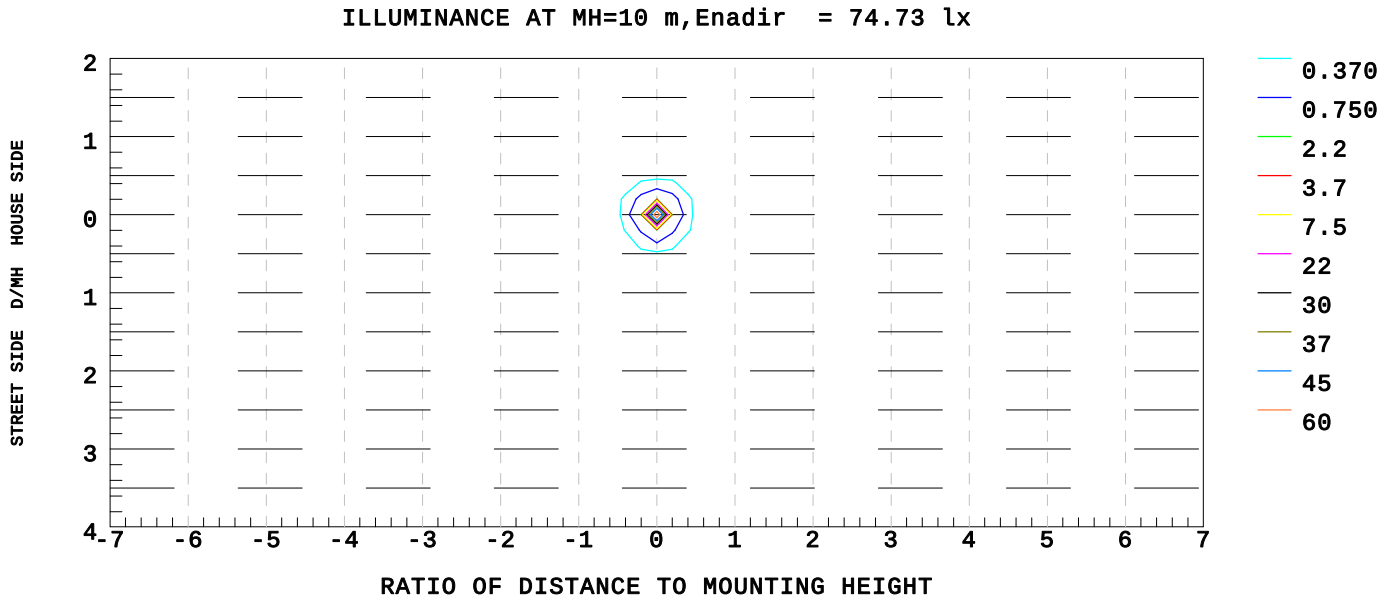
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月08日

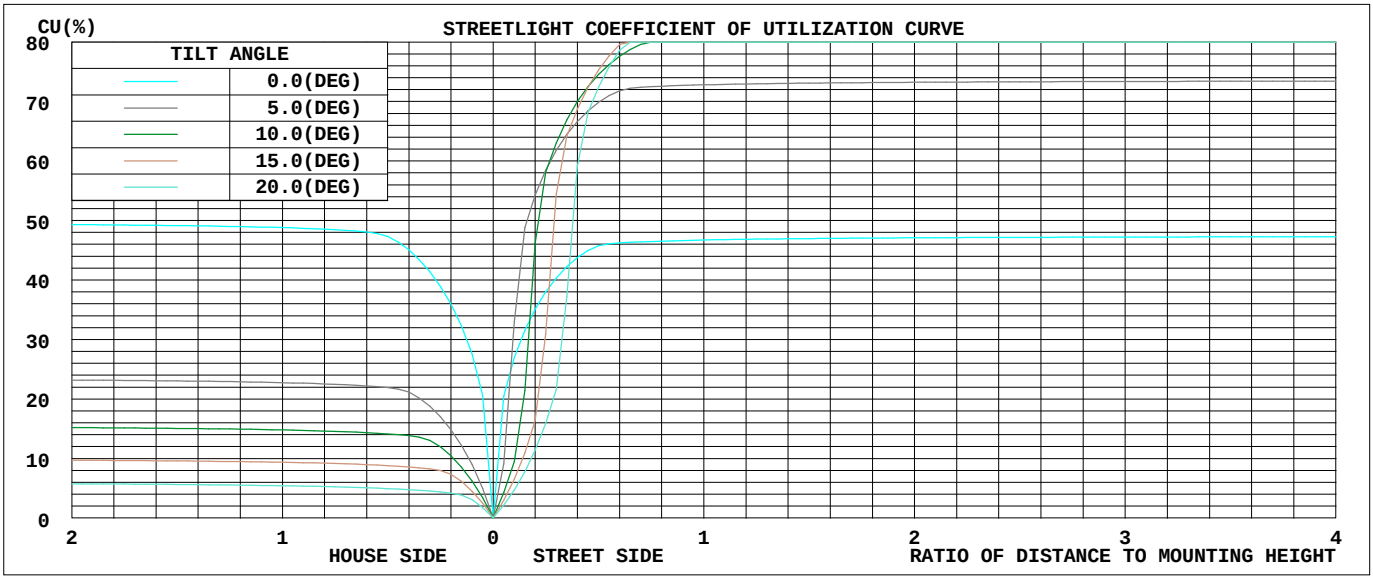
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.300 m
Remarks:

ISOLUX DIAGRAM

Report number:

MANUFACTURER: Havit Commercial		
Address:		
NAME: HCP-251034	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:





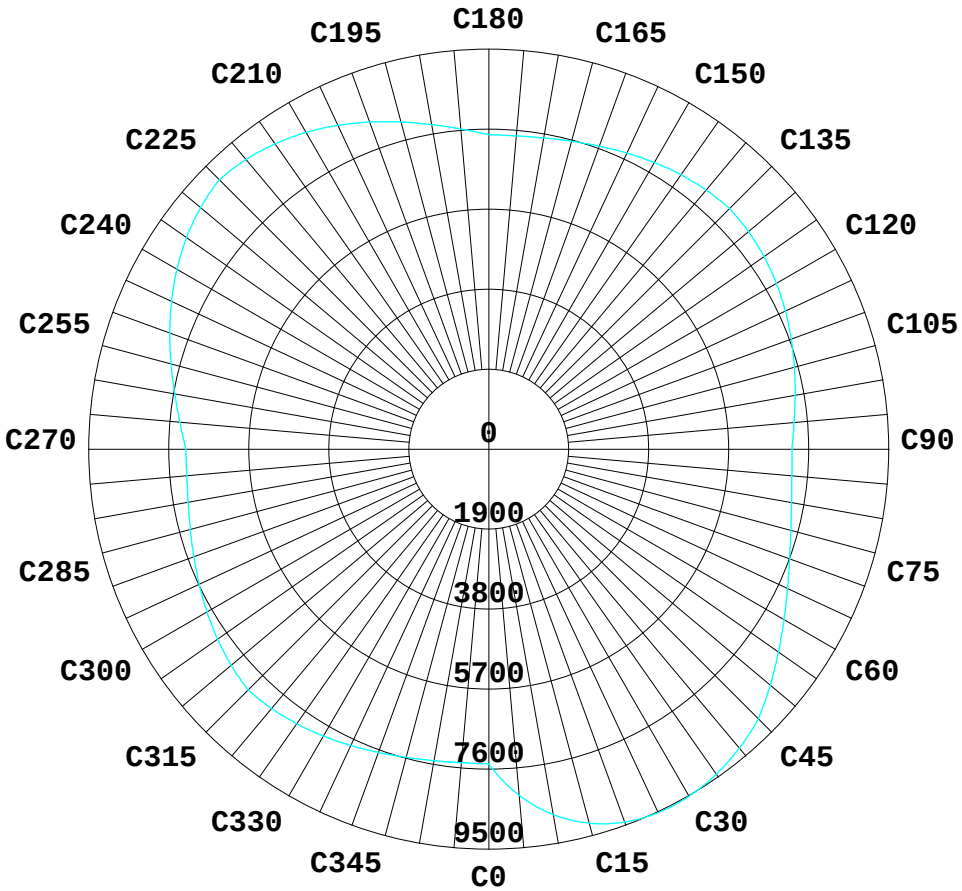
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月08日

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.300 m
Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: Havit Commercial		
Address:		
NAME: HCP-251034	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月08日

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.300 m
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER: Havit Commercial		
Address:		
NAME: HCP-251034	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

UNIT: cd

γ (DEG) \ C(DEG)	0	45	90	135	180	225	270	315
0.0	7473	9054	7198	8085	7473	9054	7198	8085
5.0	318	299	338	304	321	361	300	311
10.0	185	155	189	156	158	182	153	183
15.0	104	95.3	107	97.6	101	107	95.4	103
20.0	72.6	67.1	78.7	70.6	71.4	77.8	68.1	74.6
25.0	58.1	53.5	63.0	56.3	57.0	61.6	52.2	58.0
30.0	14.1	8.12	10.1	3.72	5.64	15.7	9.78	14.0
35.0	4.89	1.10	4.47	0.76	1.17	4.89	1.30	4.68
40.0	3.78	0.48	3.51	0.48	0.83	3.65	0.41	3.58
45.0	3.10	0.48	2.89	0.28	0.34	2.89	0.34	2.89
50.0	2.54	0.07	2.34	0.07	0.34	2.27	0.21	2.34
55.0	2.20	0.14	1.72	0.00	0.28	1.92	0.00	1.92
60.0	1.86	0.00	1.72	0.00	0.28	1.72	0.00	1.58
65.0	1.44	0.00	1.44	0.00	0.21	1.51	0.00	1.24
70.0	1.24	0.00	1.24	0.00	0.00	1.17	0.00	1.03
75.0	1.37	0.00	1.17	0.00	0.14	1.17	0.00	1.17
80.0	1.24	0.00	0.83	0.00	0.14	1.03	0.00	0.96
85.0	1.03	0.00	0.76	0.00	0.00	0.96	0.00	0.90
90.0	0.96	0.00	0.90	0.00	0.07	0.83	0.00	0.69
95.0	0.76	0.00	0.76	0.00	0.21	0.83	0.00	0.55
100.0	0.76	0.00	0.69	0.00	0.21	0.76	0.00	0.69
105.0	0.76	0.00	0.41	0.00	0.07	0.48	0.00	0.62
110.0	0.62	0.00	0.34	0.00	0.28	0.62	0.00	0.34
115.0	0.69	0.00	0.55	0.00	0.28	0.41	0.00	0.28
120.0	0.62	0.00	0.48	0.00	0.28	0.34	0.00	0.41
125.0	0.41	0.00	0.48	0.00	0.00	0.55	0.00	0.14
130.0	0.55	0.00	0.41	0.00	0.28	0.34	0.00	0.21
135.0	0.55	0.00	0.41	0.00	0.34	0.21	0.00	0.41
140.0	0.55	0.00	0.41	0.00	0.28	0.41	0.00	0.41
145.0	0.28	0.07	0.41	0.00	0.41	0.41	0.00	0.48
150.0	0.62	0.14	0.48	0.07	0.48	0.28	0.07	0.41
155.0	0.62	0.34	0.62	0.21	0.90	0.76	0.34	0.69
160.0	0.62	0.55	0.62	0.14	0.83	0.69	0.21	0.76
165.0	0.62	0.62	0.62	0.48	0.69	0.90	0.28	0.83
170.0	0.83	0.69	0.76	0.55	0.90	0.96	0.48	0.83
175.0	0.69	0.62	0.69	0.55	0.90	0.69	0.41	0.90
180.0	0.69	0.48	0.62	0.41	0.96	0.62	0.41	0.55

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月08日

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.300 m
Remarks: