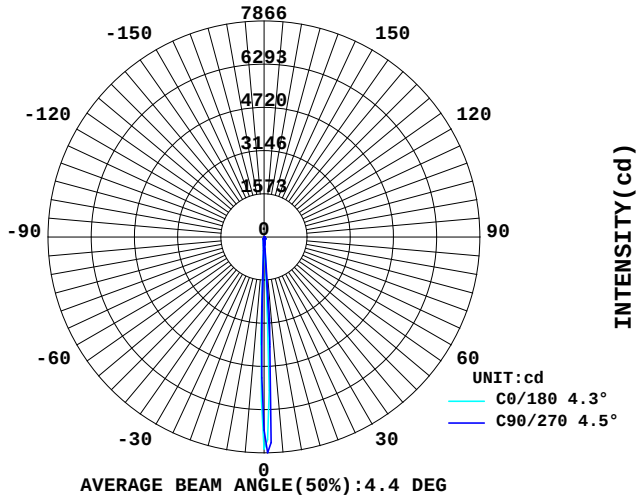
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

MANUFACTURER: Havit Commercial		
Address:		
NAME: HCP-251035	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

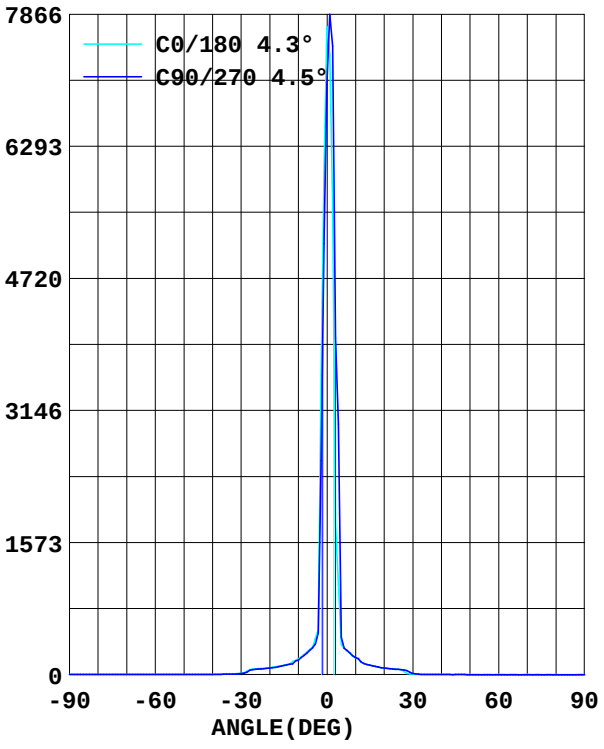
DATA OF LAMP		Imax(cd)	8022	S/MH(C0/180)	0.06
MODEL		EFFICIENCY(%)	100.0	S/MH(C90/270)	0.06
NOMINAL POWER(W)	3	TOTAL FLUX(lm)	138.13	Voltage(V)	23.84
RATED VOLTAGE(V)	24	EFFICIENCY(lm/W)	47.8	Current(A)	0.121
NOMINAL FLUX(lm)	138.1	η up(%)	1.2	Power(W)	2.890
LAMPS QUANTITY	1	η down(%)	98.8	Power Factor(PF)	1.000
TEST VOLTAGE(V)	23.8	Effictive Flux(lm)	50.6	EEI	0.331

LUMINOUS INTENSITY DISTRIBUTION



AVERAGE BEAM ANGLE(50%):4.4 DEG

LUMINOUS INTENSITY DISTRIBUTION



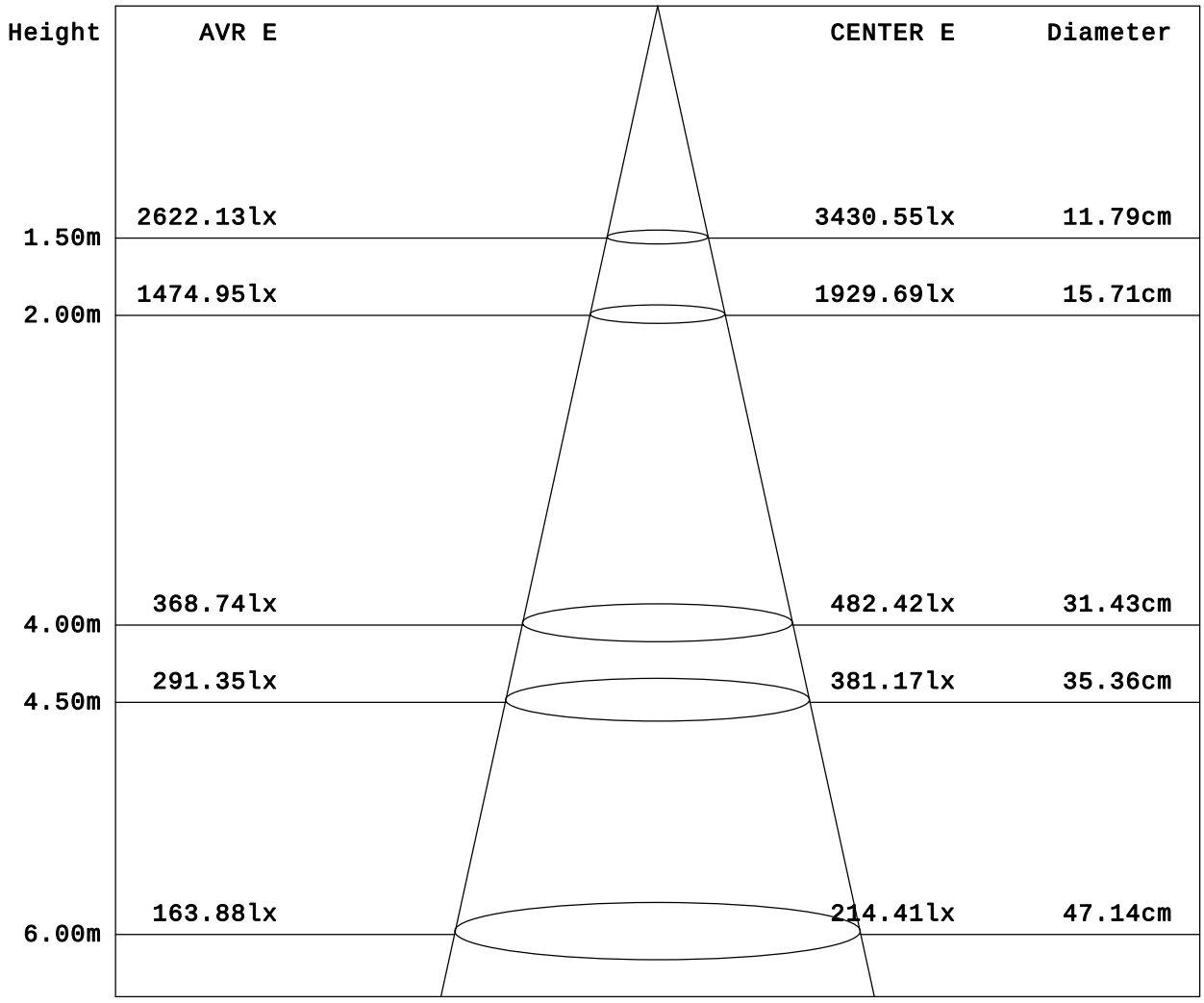
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月08日

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-251035	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



Angle:4.5deg

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-251035	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	zone	total
5.0	323.5	312.6	319.9	313.3	356.3	362.0	445.7	471.6	0- 5	55.41	55.41
10.0	189.9	198.6	175.2	200.0	201.2	207.2	203.5	205.6	5- 10	18.28	73.69
15.0	113.4	102.8	107.9	102.4	111.6	119.6	111.5	119.1	10- 15	16.90	90.60
20.0	83.01	74.26	76.67	72.67	78.81	83.77	78.46	85.01	15- 20	15.27	105.8
25.0	67.64	59.72	62.34	58.00	61.93	68.20	62.27	67.37	20- 25	14.71	120.5
30.0	15.50	10.54	12.95	4.064	5.235	10.67	11.64	16.74	25- 30	9.760	130.3
35.0	4.891	1.033	4.133	0.620	1.240	4.477	0.964	4.822	30- 35	1.602	131.9
40.0	3.651	0.551	3.168	0.138	0.689	3.375	0.482	3.375	35- 40	0.762	132.7
45.0	3.100	0.138	2.617	0	0.344	2.686	0.138	2.824	40- 45	0.627	133.3
50.0	2.480	0.138	2.135	0	0.276	2.204	0	2.273	45- 50	0.537	133.8
55.0	2.135	0	1.791	0	0.207	1.860	0	1.860	50- 55	0.462	134.3
60.0	1.860	0	1.515	0	0.069	1.584	0	1.653	55- 60	0.408	134.7
65.0	1.515	0	1.171	0	0.138	1.377	0	1.308	60- 65	0.368	135.1
70.0	1.240	0	0.964	0	0.069	1.102	0	1.240	65- 70	0.328	135.4
75.0	1.240	0	0.964	0	0	0.964	0	0.896	70- 75	0.295	135.7
80.0	1.102	0	0.896	0	0.069	0.758	0	0.896	75- 80	0.260	136.0
85.0	0.964	0	0.758	0	0	0.620	0	0.827	80- 85	0.238	136.2
90.0	0.896	0	0.689	0	0	0.758	0	0.551	85- 90	0.211	136.4
95.0	0.620	0	0.620	0	0	0.689	0	0.620	90- 95	0.194	136.6
100.0	0.689	0	0.551	0	0.069	0.551	0	0.344	95-100	0.163	136.8
105.0	0.689	0	0.482	0	0.069	0.551	0	0.413	100-105	0.155	136.9
110.0	0.620	0	0.482	0	0.069	0.482	0	0.413	105-110	0.135	137.0
115.0	0.551	0	0.276	0	0.069	0.413	0	0.276	110-115	0.120	137.2
120.0	0.482	0	0.344	0	0.138	0.413	0	0.413	115-120	0.102	137.3
125.0	0.482	0	0.276	0	0.138	0.413	0	0.344	120-125	0.096	137.4
130.0	0.413	0	0.344	0	0.138	0.344	0	0.344	125-130	0.075	137.4
135.0	0.413	0	0.276	0	0	0.069	0	0.276	130-135	0.068	137.5
140.0	0.413	0	0.069	0	0.276	0.344	0	0.344	135-140	0.067	137.6
145.0	0.413	0	0.344	0	0.207	0.344	0	0.069	140-145	0.055	137.6
150.0	0.413	0	0.069	0	0.413	0.413	0	0.344	145-150	0.054	137.7
155.0	0.551	0.276	0.551	0.138	0.689	0.620	0.207	0.551	150-155	0.072	137.8
160.0	0.551	0.276	0.276	0.344	0.551	0.758	0.276	0.758	155-160	0.104	137.9
165.0	0.689	0.551	0.482	0.344	0.758	0.758	0.207	0.758	160-165	0.091	138.0
170.0	0.689	0.551	0.482	0.344	0.827	0.620	0.276	0.827	165-170	0.074	138.0
175.0	0.758	0.482	0.620	0.482	0.964	0.896	0.413	0.827	170-175	0.045	138.1
180.0	0.620	0.207	0.413	0.207	0.896	0.551	0.413	0.482	175-180	0.014	138.1
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:

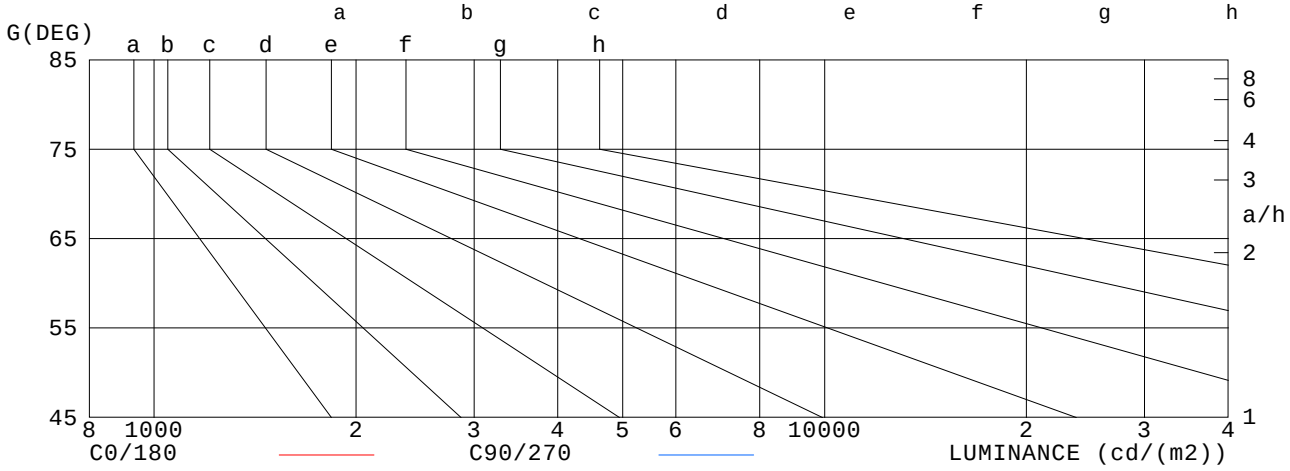
LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER: Havit Commercial		
Address:		
NAME: HCP-251035	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	111	87
80	63	52
75	48	37
70	36	28
65	36	28
60	37	30
55	37	31
50	39	33
45	44	37

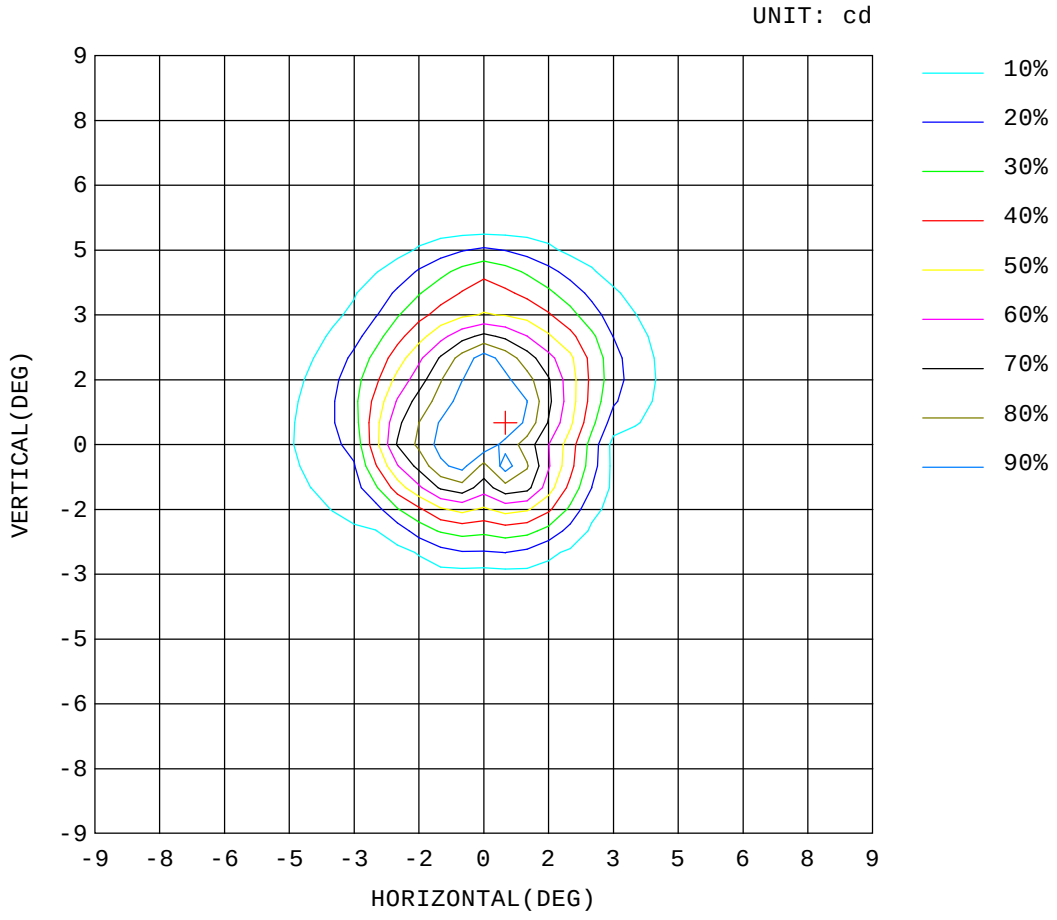
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月08日

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-251035	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



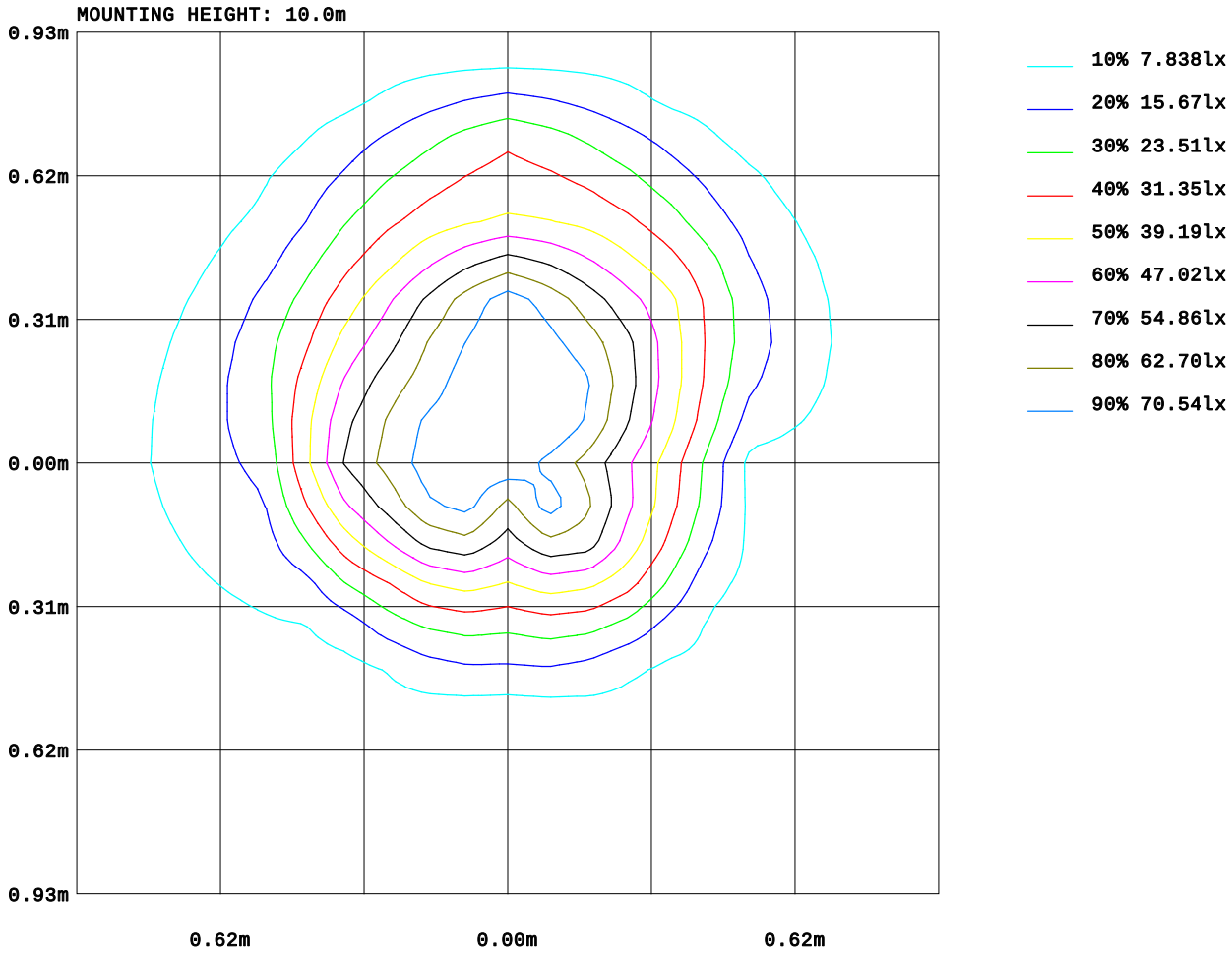
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月08日

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-251035	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-251035	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	0.05	0.05	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.05	0.05	1.15	0.00
8	0.05	0.06	0.06	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.06	0.06	0.05	1.27	0.00
7	0.06	0.06	0.07	0.07	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.08	0.07	0.07	0.06	0.06	1.39	0.00
6	0.06	0.07	0.07	0.08	0.09	0.09	0.10	0.11	0.11	0.12	0.11	0.10	0.09	0.09	0.08	0.07	0.07	0.06	1.56	0.00
5	0.06	0.07	0.08	0.09	0.09	0.10	0.12	0.27	0.46	0.47	0.29	0.13	0.11	0.10	0.09	0.08	0.07	0.06	2.74	1.48
4	0.07	0.07	0.08	0.09	0.10	0.12	0.36	0.71	0.98	1.00	0.77	0.43	0.16	0.11	0.09	0.08	0.07	0.07	5.36	4.24
3	0.07	0.08	0.09	0.09	0.11	0.27	0.63	1.11	1.59	1.63	1.23	0.77	0.31	0.12	0.10	0.09	0.08	0.07	8.43	7.55
	0.07	0.08	0.09	0.10	0.17	0.42	0.90	1.57	2.15	2.21	1.70	0.90	0.37	0.15	0.10	0.09	0.08	0.07	11.2	10.2
	0.07	0.08	0.09	0.10	0.21	0.46	1.11	1.92	2.30	2.40	1.66	0.79	0.26	0.14	0.10	0.09	0.08	0.07	11.9	10.9
	0.07	0.08	0.09	0.10	0.20	0.38	0.94	1.76	2.24	2.27	1.47	0.59	0.15	0.11	0.09	0.09	0.08	0.07	10.7	9.66
	0.07	0.08	0.09	0.10	0.14	0.25	0.39	0.92	1.27	1.30	1.01	0.29	0.14	0.10	0.09	0.08	0.07	0.07	6.47	5.44
-3	0.07	0.07	0.08	0.09	0.10	0.14	0.16	0.25	0.47	0.48	0.28	0.18	0.11	0.09	0.09	0.08	0.07	0.06	2.88	1.48
-4	0.06	0.07	0.08	0.08	0.09	0.10	0.11	0.13	0.13	0.14	0.13	0.11	0.10	0.09	0.08	0.08	0.07	0.06	1.70	0.00
-5	0.06	0.07	0.07	0.08	0.08	0.09	0.09	0.10	0.10	0.10	0.10	0.09	0.09	0.08	0.08	0.07	0.06	0.06	1.49	0.00
-6	0.06	0.06	0.07	0.07	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.08	0.08	0.07	0.07	0.06	0.06	1.36	0.00
-7	0.05	0.06	0.06	0.06	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.07	0.06	0.06	0.05	1.24	0.00
-8	0.04	0.05	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.05	0.04	1.12	0.00
-9	0.04	0.04	0.05	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.05	0.04	0.04	1.00	0.00
Φ t	1.09	1.21	1.33	1.45	1.85	2.92	5.45	9.40	12.3	12.7	9.33	4.93	2.40	1.68	1.44	1.31	1.18	1.06	138	
Φ a	0.00	0.00	0.00	0.00	0.00	1.77	4.34	8.52	11.4	11.7	8.43	3.78	0.94	0.00	0.00	0.00	0.00	0.00		51

HORIZONTAL(DEG)

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

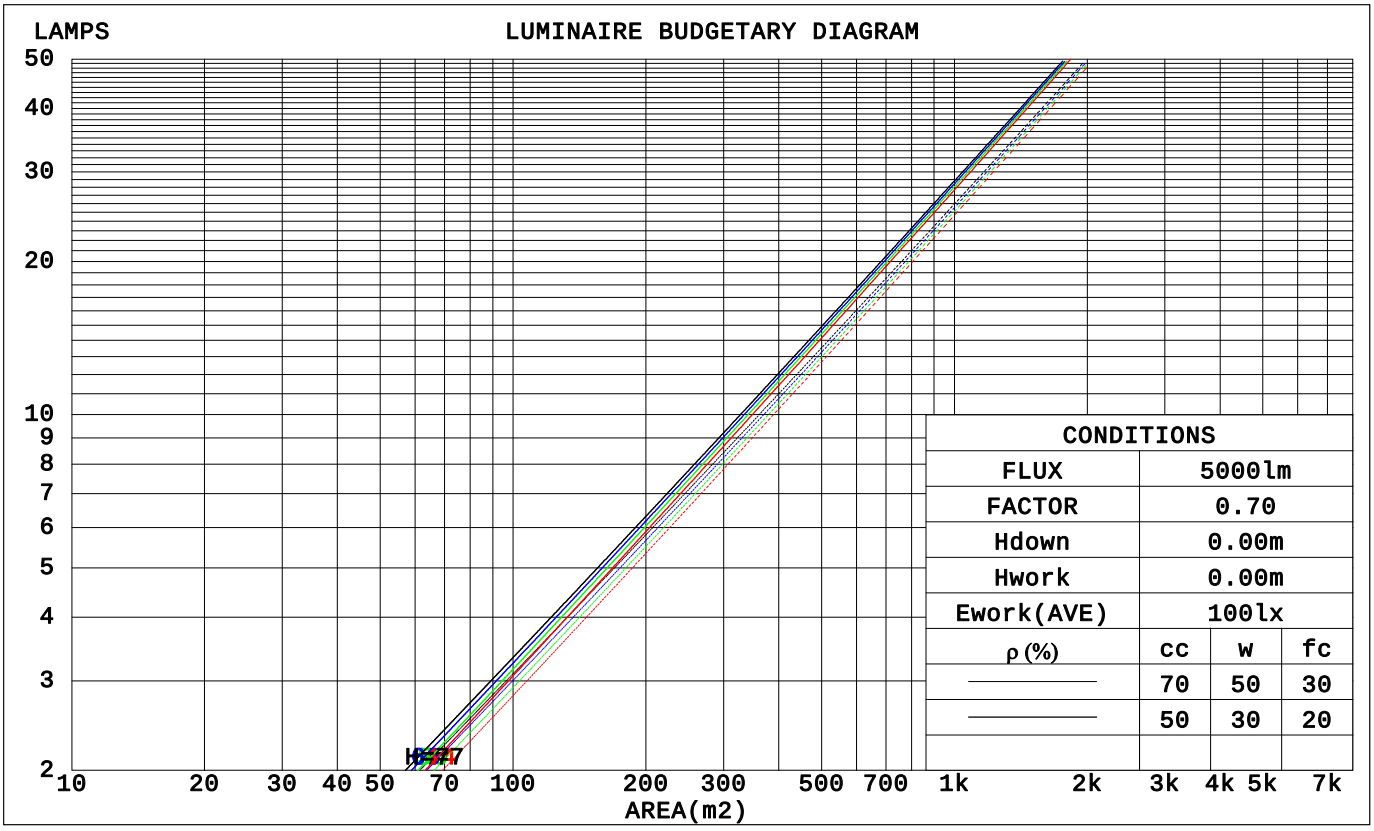
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.300 m
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER: Havit Commercial		
Address:		
NAME: HCP-251035	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	1.01	1.01	1.01	.99
1.0	1.13	1.11	1.09	1.10	1.09	1.07	1.06	1.05	1.04	1.02	1.01	1.00	.99	.98	.97	.96
2.0	1.08	1.05	1.02	1.06	1.03	1.01	1.03	1.01	.99	.00	.98	.97	.97	.96	.94	.93
3.0	1.04	1.00	.97	1.02	.99	.96	.99	.97	.95	.97	.95	.93	.95	.93	.92	.90
4.0	.00	.96	.93	.99	.95	.93	.97	.94	.92	.95	.92	.90	.93	.91	.89	.88
5.0	.97	.93	.90	.96	.92	.90	.94	.91	.89	.93	.90	.88	.91	.89	.87	.86
6.0	.94	.90	.87	.93	.90	.87	.92	.89	.86	.91	.88	.86	.89	.87	.85	.84
7.0	.92	.88	.85	.91	.87	.85	.90	.87	.84	.89	.86	.84	.88	.85	.83	.82
8.0	.89	.86	.83	.89	.85	.83	.88	.85	.82	.87	.84	.82	.86	.83	.82	.81
9.0	.87	.84	.81	.87	.83	.81	.86	.83	.81	.85	.82	.80	.84	.82	.80	.79
10.0	.85	.82	.79	.85	.82	.79	.84	.81	.79	.84	.81	.79	.83	.80	.79	.78



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-251035	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	.135	.077	.024	.128	.073	.023	.115	.066	.021	.103	.060	.019	.092	.053	.017	
2.0	.123	.068	.021	.117	.065	.020	.107	.059	.018	.097	.054	.017	.087	.049	.016	
3.0	.113	.060	.018	.109	.058	.017	.099	.054	.016	.091	.050	.015	.083	.046	.014	
4.0	.105	.055	.016	.101	.053	.016	.093	.049	.015	.086	.046	.014	.080	.043	.013	
5.0	.098	.050	.014	.094	.049	.014	.088	.046	.013	.082	.043	.013	.076	.041	.012	
6.0	.092	.046	.013	.089	.045	.013	.083	.043	.012	.078	.040	.012	.073	.038	.011	
7.0	.086	.043	.012	.084	.042	.012	.079	.040	.012	.074	.038	.011	.070	.036	.011	
8.0	.082	.040	.011	.080	.039	.011	.075	.038	.011	.071	.036	.010	.067	.035	.010	
9.0	.078	.038	.010	.076	.037	.010	.072	.036	.010	.068	.034	.010	.065	.033	.010	
10.0	.074	.035	.010	.072	.035	.010	.069	.034	.009	.066	.033	.009	.063	.031	.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	.200	.200	.200	.171	.171	.171	.117	.117	.117	.067	.067	.067	.021	.021	.021	
1.0	.178	.167	.158	.152	.143	.136	.104	.099	.094	.060	.057	.055	.019	.018	.018	
2.0	.159	.142	.128	.136	.122	.111	.093	.085	.077	.054	.049	.045	.017	.016	.015	
3.0	.144	.123	.106	.123	.106	.092	.085	.074	.064	.049	.043	.038	.016	.014	.012	
4.0	.131	.107	.089	.112	.093	.078	.077	.065	.055	.045	.038	.032	.014	.012	.011	
5.0	.120	.095	.076	.103	.082	.066	.071	.057	.047	.041	.034	.028	.013	.011	.009	
6.0	.111	.085	.066	.095	.073	.058	.066	.051	.041	.038	.030	.024	.012	.010	.008	
7.0	.103	.076	.058	.088	.066	.051	.061	.046	.036	.035	.027	.021	.011	.009	.007	
8.0	.096	.070	.052	.082	.060	.045	.057	.042	.032	.033	.025	.019	.011	.008	.006	
9.0	.090	.064	.046	.077	.055	.040	.054	.039	.029	.031	.023	.017	.010	.008	.006	
10.0	.085	.059	.042	.073	.051	.036	.051	.036	.026	.030	.021	.015	.010	.007	.005	

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-251035	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	-9.4	-8.8	-9.2	-8.6	-8.5	-10.8	-10.2	-10.5	-10.0	-9.8
3H	-7.2	-6.7	-7.0	-6.5	-6.3	-8.7	-8.1	-8.4	-7.9	-7.7
4H	-5.7	-5.2	-5.4	-4.9	-4.7	-7.3	-6.7	-7.0	-6.5	-6.3
6H	-4.1	-3.6	-3.8	-3.3	-3.1	-5.6	-5.1	-5.3	-4.9	-4.6
8H	-3.2	-2.8	-2.9	-2.5	-2.2	-4.7	-4.2	-4.4	-4.0	-3.7
12H	-2.0	-1.6	-1.7	-1.3	-1.0	-3.5	-3.0	-3.2	-2.8	-2.5
4H 2H	-9.5	-9.0	-9.3	-8.8	-8.6	-10.8	-10.3	-10.6	-10.1	-9.9
3H	-7.2	-6.8	-6.9	-6.5	-6.2	-8.7	-8.2	-8.3	-7.9	-7.6
4H	-5.5	-5.1	-5.2	-4.8	-4.5	-7.1	-6.7	-6.7	-6.4	-6.0
6H	-3.6	-3.2	-3.2	-2.9	-2.5	-5.1	-4.7	-4.7	-4.4	-4.0
8H	-2.6	-2.2	-2.2	-1.8	-1.5	-4.1	-3.7	-3.6	-3.3	-2.9
12H	-1.1	-0.7	-0.7	-0.4	0.1	-2.5	-2.2	-2.1	-1.8	-1.4
8H 4H	-5.6	-5.3	-5.2	-4.9	-4.5	-7.2	-6.8	-6.8	-6.4	-6.0
6H	-3.6	-3.3	-3.1	-2.8	-2.4	-5.1	-4.8	-4.6	-4.4	-3.9
8H	-2.4	-2.1	-1.9	-1.7	-1.2	-3.8	-3.6	-3.4	-3.1	-2.7
12H	-0.6	-0.4	-0.1	0.1	0.6	-2.0	-1.8	-1.5	-1.3	-0.8
12H 4H	-5.6	-5.3	-5.2	-4.9	-4.5	-7.1	-6.8	-6.7	-6.4	-6.0
6H	-3.6	-3.3	-3.1	-2.9	-2.4	-5.1	-4.8	-4.6	-4.4	-3.9
8H	-2.4	-2.2	-1.9	-1.7	-1.2	-3.8	-3.6	-3.4	-3.1	-2.6
Variations with the observer position at spacings:										
S = 1.0H	+ 0.3 / - 0.1					+ 0.3 / - 0.4				
1.5H	+ 0.6 / - 1.1					+ 0.8 / - 0.7				
2.0H	+ 1.0 / - 1.0					+ 1.1 / - 0.8				

CIE Pub.117 Corrected 138.1 lm Total Lamp Luminous Flux.(8log(F/F0) = -6.9)

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-251035	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	89	83	80	89	83	80	88	83	79	76
0.80	96	91	87	95	90	87	94	90	87	83
1.00	100	95	91	99	94	91	98	94	90	87
1.25	104	99	95	103	98	95	101	97	94	90
1.50	106	102	99	105	101	98	103	99	97	92
2.00	109	105	101	107	103	101	104	101	99	94
2.50	110	107	104	109	105	103	105	103	101	95
3.00	112	108	106	110	107	105	106	104	102	96
4.00	114	111	109	112	109	107	108	106	104	97
5.00	115	113	111	113	111	109	109	107	106	98
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004	Suspended								SHRNOM = 1.25	

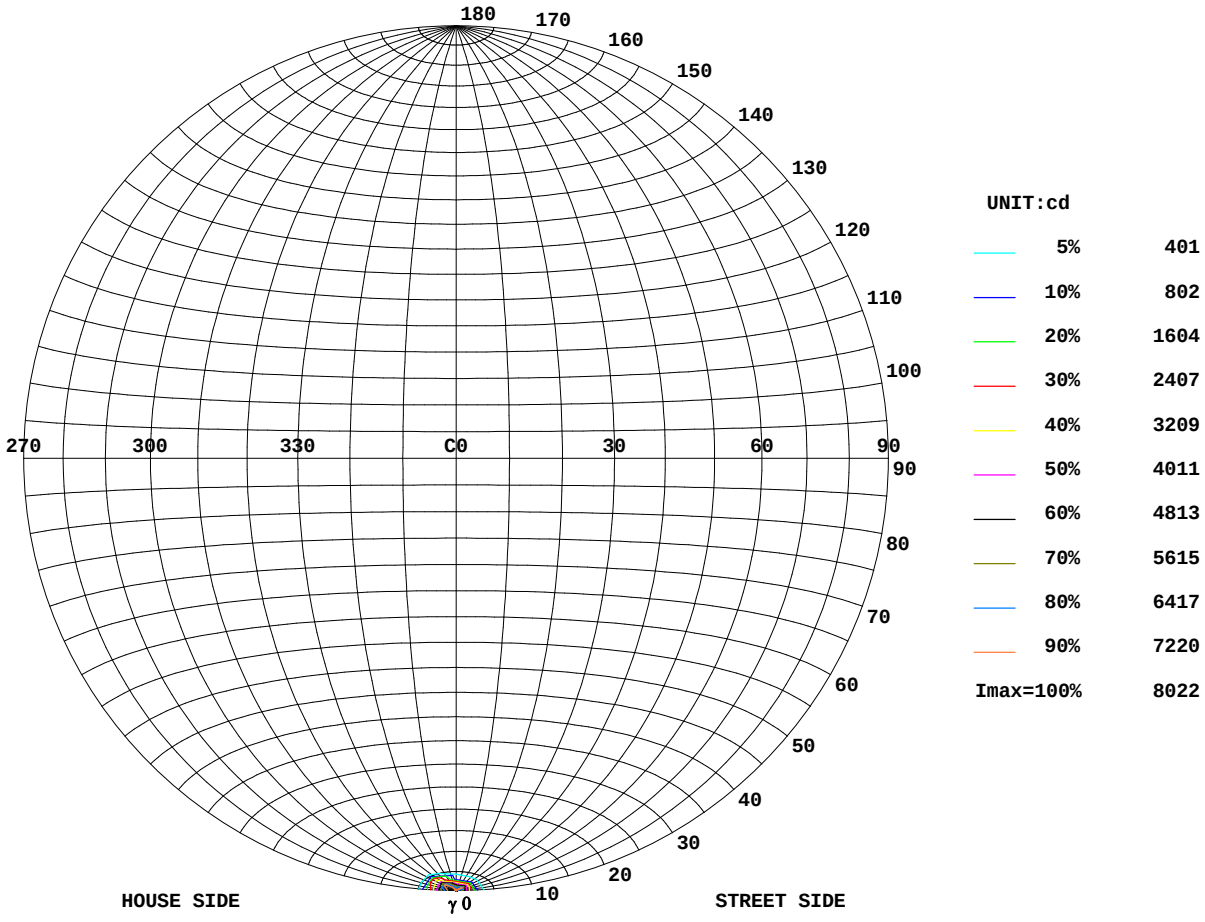
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月08日

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-251035	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



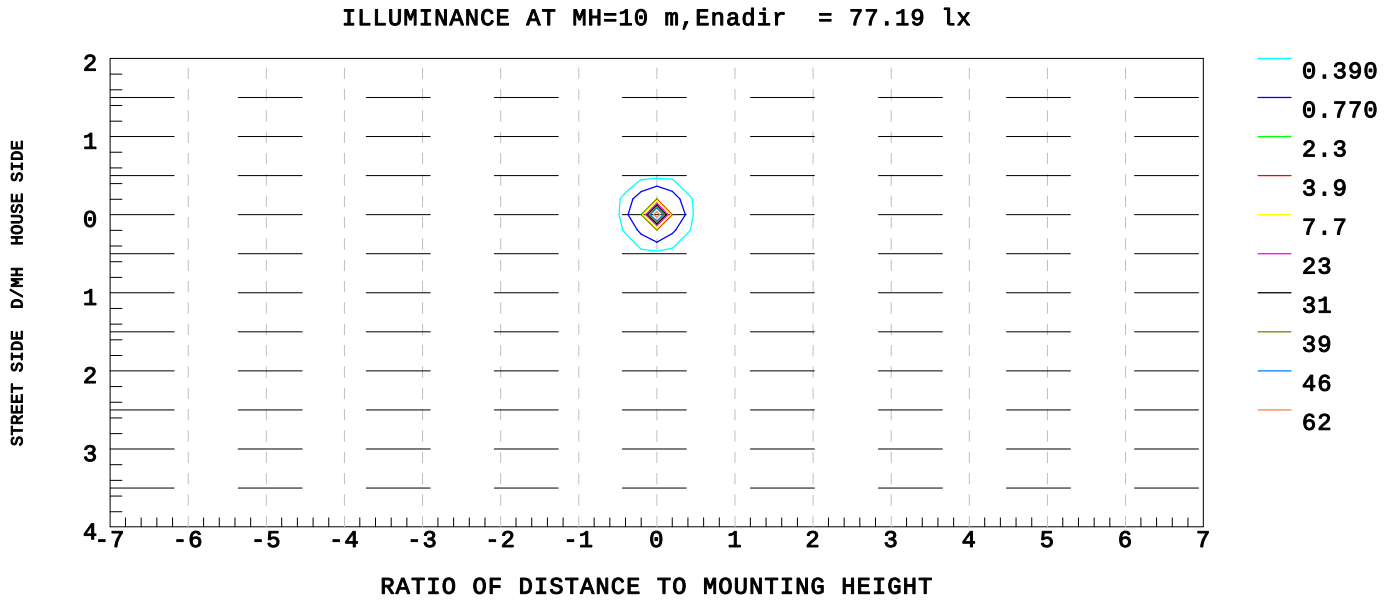
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月08日

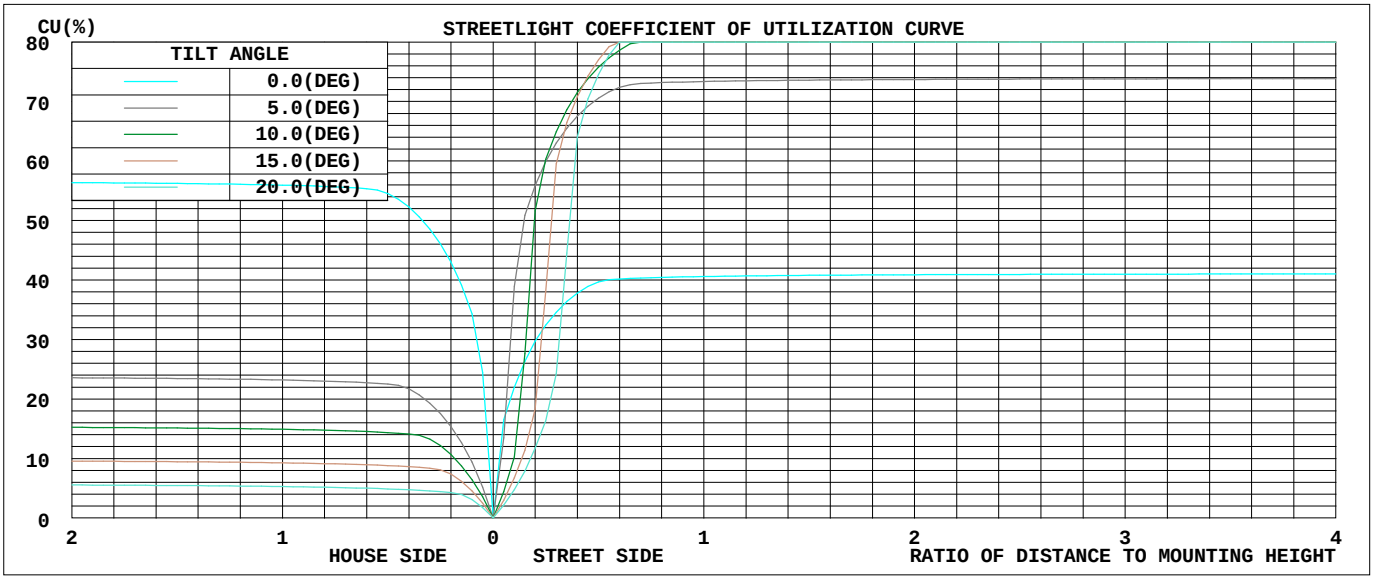
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.300 m
Remarks:

ISOLUX DIAGRAM

Report number:

MANUFACTURER: Havit Commercial		
Address:		
NAME: HCP-251035	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:





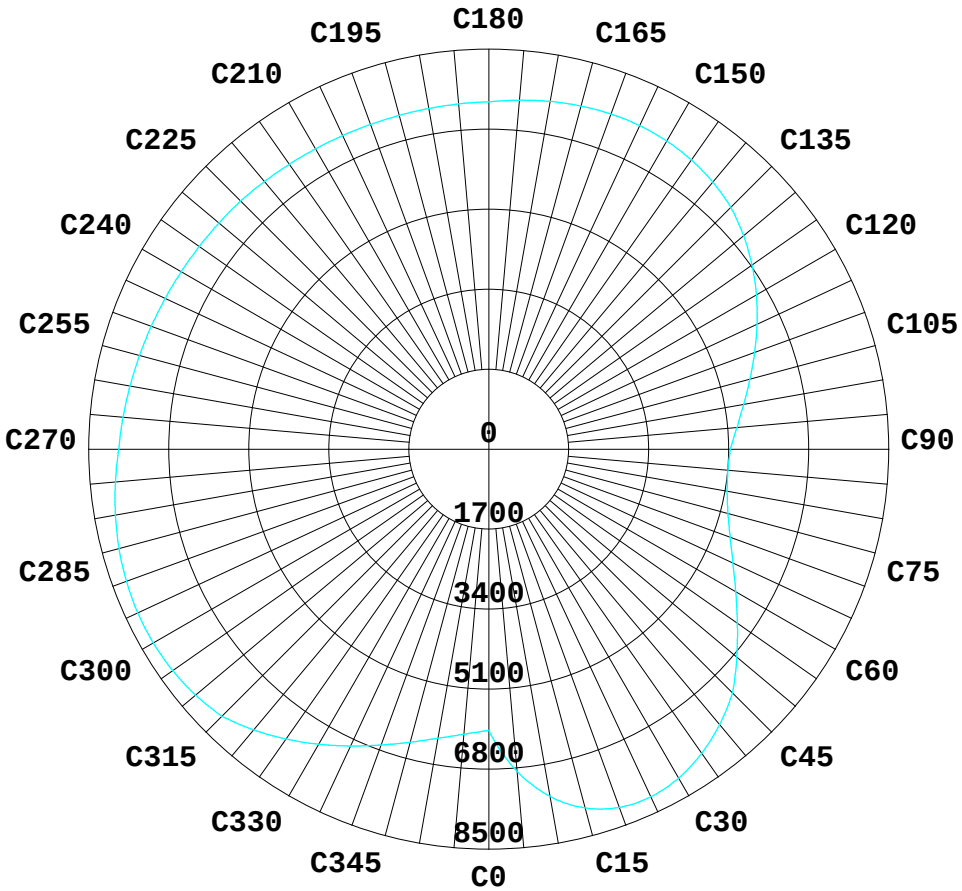
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月08日

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-251035	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-251035	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

UNIT: cd

γ (DEG) \ C(DEG)	0	45	90	135	180	225	270	315
0.0	7719	7783	7030	7619	7719	7783	7030	7619
5.0	324	313	320	313	356	362	446	472
10.0	190	199	175	200	201	207	204	206
15.0	113	103	108	102	112	120	112	119
20.0	83.0	74.2	76.6	72.6	78.8	83.7	78.4	85.0
25.0	67.6	59.7	62.3	58.0	61.9	68.2	62.2	67.3
30.0	15.5	10.5	12.9	4.06	5.23	10.6	11.6	16.7
35.0	4.89	1.03	4.13	0.62	1.24	4.47	0.96	4.82
40.0	3.65	0.55	3.16	0.14	0.69	3.37	0.48	3.37
45.0	3.10	0.14	2.61	0.00	0.34	2.68	0.14	2.82
50.0	2.48	0.14	2.13	0.00	0.28	2.20	0.00	2.27
55.0	2.13	0.00	1.79	0.00	0.21	1.86	0.00	1.86
60.0	1.86	0.00	1.51	0.00	0.07	1.58	0.00	1.65
65.0	1.51	0.00	1.17	0.00	0.14	1.37	0.00	1.30
70.0	1.24	0.00	0.96	0.00	0.07	1.10	0.00	1.24
75.0	1.24	0.00	0.96	0.00	0.00	0.96	0.00	0.90
80.0	1.10	0.00	0.90	0.00	0.07	0.76	0.00	0.90
85.0	0.96	0.00	0.76	0.00	0.00	0.62	0.00	0.83
90.0	0.90	0.00	0.69	0.00	0.00	0.76	0.00	0.55
95.0	0.62	0.00	0.62	0.00	0.00	0.69	0.00	0.62
100.0	0.69	0.00	0.55	0.00	0.07	0.55	0.00	0.34
105.0	0.69	0.00	0.48	0.00	0.07	0.55	0.00	0.41
110.0	0.62	0.00	0.48	0.00	0.07	0.48	0.00	0.41
115.0	0.55	0.00	0.28	0.00	0.07	0.41	0.00	0.28
120.0	0.48	0.00	0.34	0.00	0.14	0.41	0.00	0.41
125.0	0.48	0.00	0.28	0.00	0.14	0.41	0.00	0.34
130.0	0.41	0.00	0.34	0.00	0.14	0.34	0.00	0.34
135.0	0.41	0.00	0.28	0.00	0.00	0.07	0.00	0.28
140.0	0.41	0.00	0.07	0.00	0.28	0.34	0.00	0.34
145.0	0.41	0.00	0.34	0.00	0.21	0.34	0.00	0.07
150.0	0.41	0.00	0.07	0.00	0.41	0.41	0.00	0.34
155.0	0.55	0.28	0.55	0.14	0.69	0.62	0.21	0.55
160.0	0.55	0.28	0.28	0.34	0.55	0.76	0.28	0.76
165.0	0.69	0.55	0.48	0.34	0.76	0.76	0.21	0.76
170.0	0.69	0.55	0.48	0.34	0.83	0.62	0.28	0.83
175.0	0.76	0.48	0.62	0.48	0.96	0.90	0.41	0.83
180.0	0.62	0.21	0.41	0.21	0.90	0.55	0.41	0.48

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: