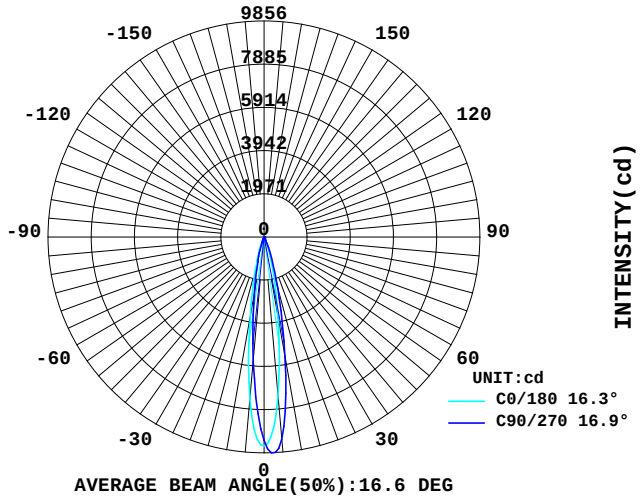
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

MANUFACTURER: Havit Commercial		
Address:		
NAME: HCP-251185	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

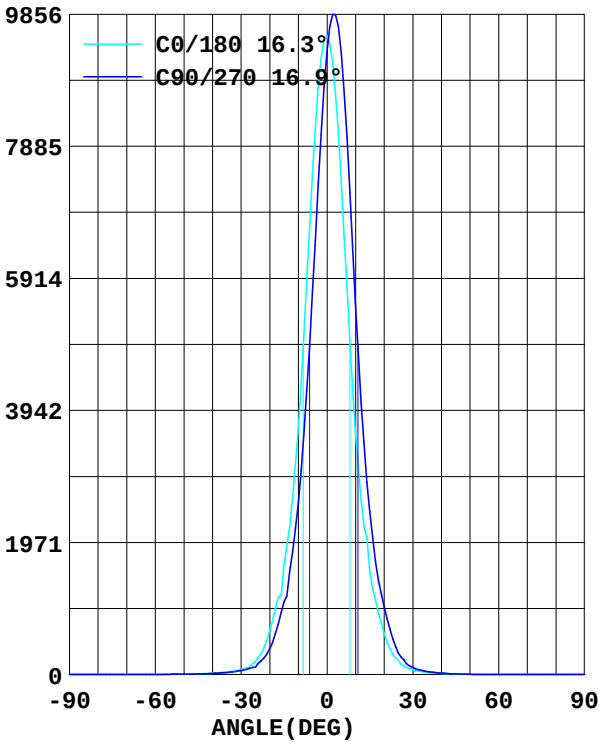
DATA OF LAMP		Imax(cd)	9856	S/MH(C0/180)	0.29
MODEL		EFFICIENCY(%)	100.0	S/MH(C90/270)	0.22
NOMINAL POWER(W)	20	TOTAL FLUX(lm)	1237.9	Voltage(V)	23.04
RATED VOLTAGE(V)	23	EFFICIENCY(lm/W)	63.0	Current(A)	0.852
NOMINAL FLUX(lm)	1237.9	η up(%)	0.8	Power(W)	19.66
LAMPS QUANTITY	1	η down(%)	99.2	Power Factor(PF)	1.000
TEST VOLTAGE(V)	23.0	Effictive Flux(lm)	1017.4	EEI	0.252

LUMINOUS INTENSITY DISTRIBUTION



AVERAGE BEAM ANGLE(50%):16.6 DEG

LUMINOUS INTENSITY DISTRIBUTION



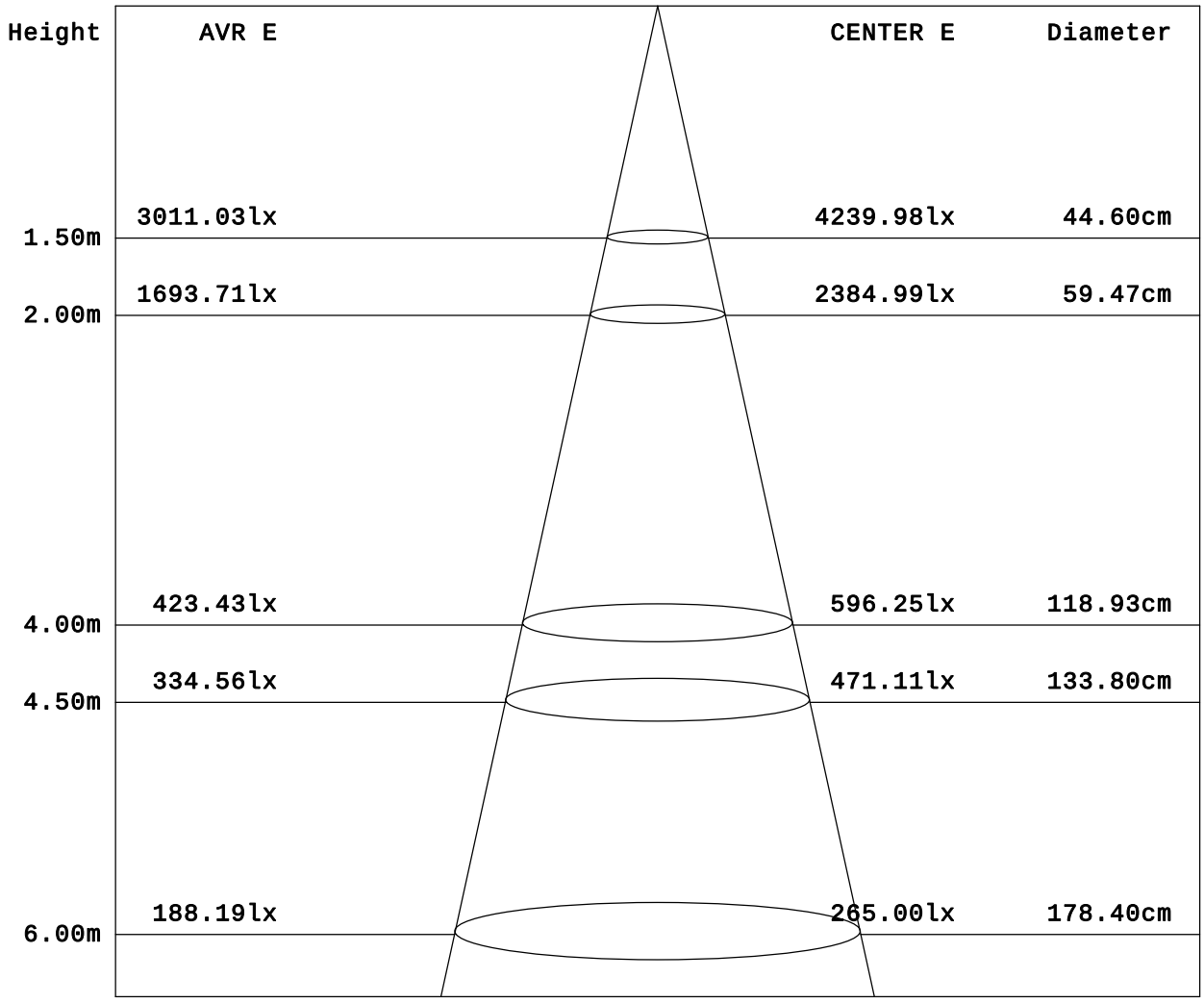
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月10日

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-251185	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



Angle:16.9deg

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月10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-251185	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	zone	total
5.0	7489	6358	5724	6054	7343	8506	9275	8774	0- 5	200.5	200.5
10.0	3682	2961	2565	2829	3631	4692	5546	4961	5- 10	386.9	587.4
15.0	1630	1257	1087	1183	1537	2003	2428	2170	10- 15	304.7	892.2
20.0	649.8	435.8	382.1	416.6	617.0	868.2	1010	940.0	15- 20	177.6	1070
25.0	199.0	132.3	114.0	135.1	214.1	281.1	324.6	292.0	20- 25	82.45	1152
30.0	75.57	56.55	59.38	56.48	73.02	103.3	106.0	100.0	25- 30	32.91	1185
35.0	39.33	27.62	31.96	27.69	34.23	50.90	47.60	49.53	30- 35	16.31	1202
40.0	20.94	13.29	17.36	14.26	17.63	27.76	22.59	26.24	35- 40	9.373	1211
45.0	12.05	6.200	10.05	6.889	8.955	15.43	10.60	14.46	40- 45	5.434	1216
50.0	7.715	3.168	6.682	3.444	4.546	9.369	5.166	8.886	45- 50	3.233	1220
55.0	5.373	1.584	4.684	1.722	2.411	6.131	2.755	5.924	50- 55	2.097	1222
60.0	3.788	0.689	3.720	0.896	1.102	4.133	1.308	4.202	55- 60	1.424	1223
65.0	3.306	0.620	3.168	0.344	0.827	3.582	0.827	3.513	60- 65	1.093	1224
70.0	2.893	0.413	2.548	0.276	0.689	3.100	0.551	2.962	65- 70	0.942	1225
75.0	2.411	0.344	2.204	0.207	0.344	2.617	0.344	2.411	70- 75	0.804	1226
80.0	2.342	0.276	1.928	0.207	0.413	2.342	0.138	1.997	75- 80	0.719	1227
85.0	1.997	0.207	1.928	0.207	0.344	2.066	0.207	2.066	80- 85	0.626	1227
90.0	1.791	0.207	1.722	0.138	0.276	1.860	0.138	1.860	85- 90	0.580	1228
95.0	1.722	0.138	1.446	0.138	0.344	1.791	0.207	1.653	90- 95	0.524	1228
100.0	1.584	0.138	1.584	0.138	0.207	1.584	0.207	1.515	95-100	0.488	1229
105.0	1.515	0.207	1.446	0.069	0.413	1.515	0.207	1.515	100-105	0.459	1229
110.0	1.240	0.207	1.240	0.207	0.413	1.446	0.207	1.377	105-110	0.435	1230
115.0	1.377	0.276	1.308	0	0.482	1.377	0.276	1.446	110-115	0.403	1230
120.0	1.308	0.276	1.240	0.276	0.482	1.308	0.276	1.308	115-120	0.386	1231
125.0	1.240	0.276	1.240	0.276	0.413	1.308	0.344	1.171	120-125	0.363	1231
130.0	1.171	0.413	1.171	0.344	0.620	1.171	0.344	1.171	125-130	0.335	1231
135.0	1.240	0.551	1.240	0.482	0.758	1.171	0.413	1.102	130-135	0.330	1232
140.0	1.171	0.896	1.446	0.827	1.171	1.446	0.689	1.377	135-140	0.363	1232
145.0	1.860	1.515	2.204	1.446	1.928	1.997	1.240	1.791	140-145	0.465	1232
150.0	2.824	2.893	3.444	2.755	3.306	3.168	2.273	2.962	145-150	0.669	1233
155.0	4.408	4.753	5.097	4.615	5.235	4.822	3.995	4.684	150-155	0.958	1234
160.0	5.993	6.406	6.475	6.268	6.889	7.026	5.786	6.682	155-160	1.168	1235
165.0	7.164	7.233	7.233	7.026	7.784	8.060	6.957	7.784	160-165	1.147	1236
170.0	7.509	7.026	7.302	6.820	7.991	8.197	7.646	7.991	165-170	0.892	1237
175.0	7.440	6.682	7.164	6.337	7.715	7.509	7.371	7.440	170-175	0.532	1238
180.0	7.440	6.889	7.371	6.544	7.577	7.164	7.164	6.820	175-180	0.170	1238
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月10日

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

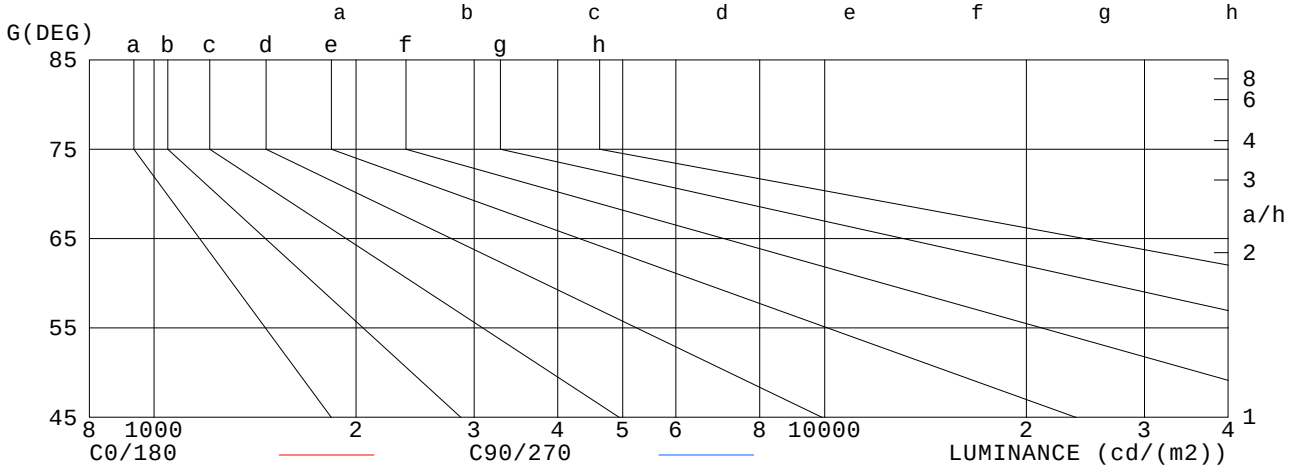
LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER: Havit Commercial		
Address:		
NAME: HCP-251185	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	229	221
80	135	111
75	93	85
70	85	75
65	78	75
60	76	74
55	94	82
50	120	104
45	170	142

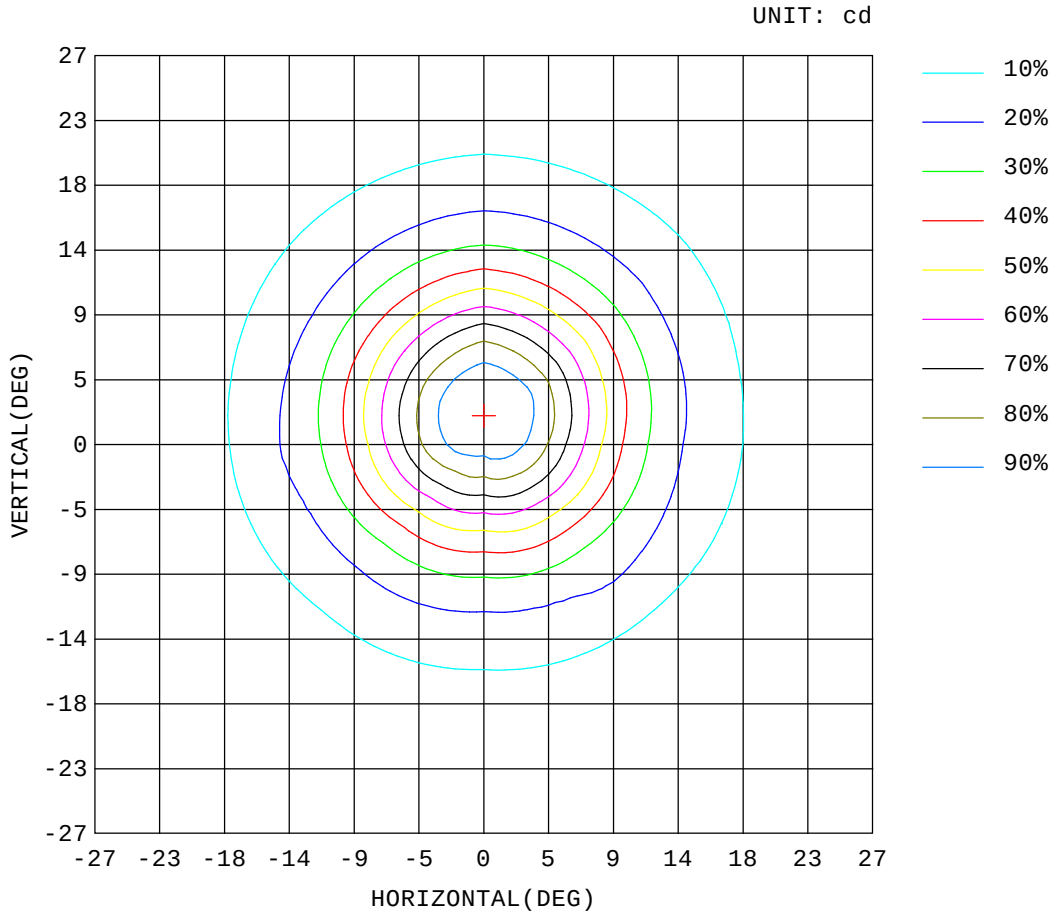
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月10日

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-251185	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



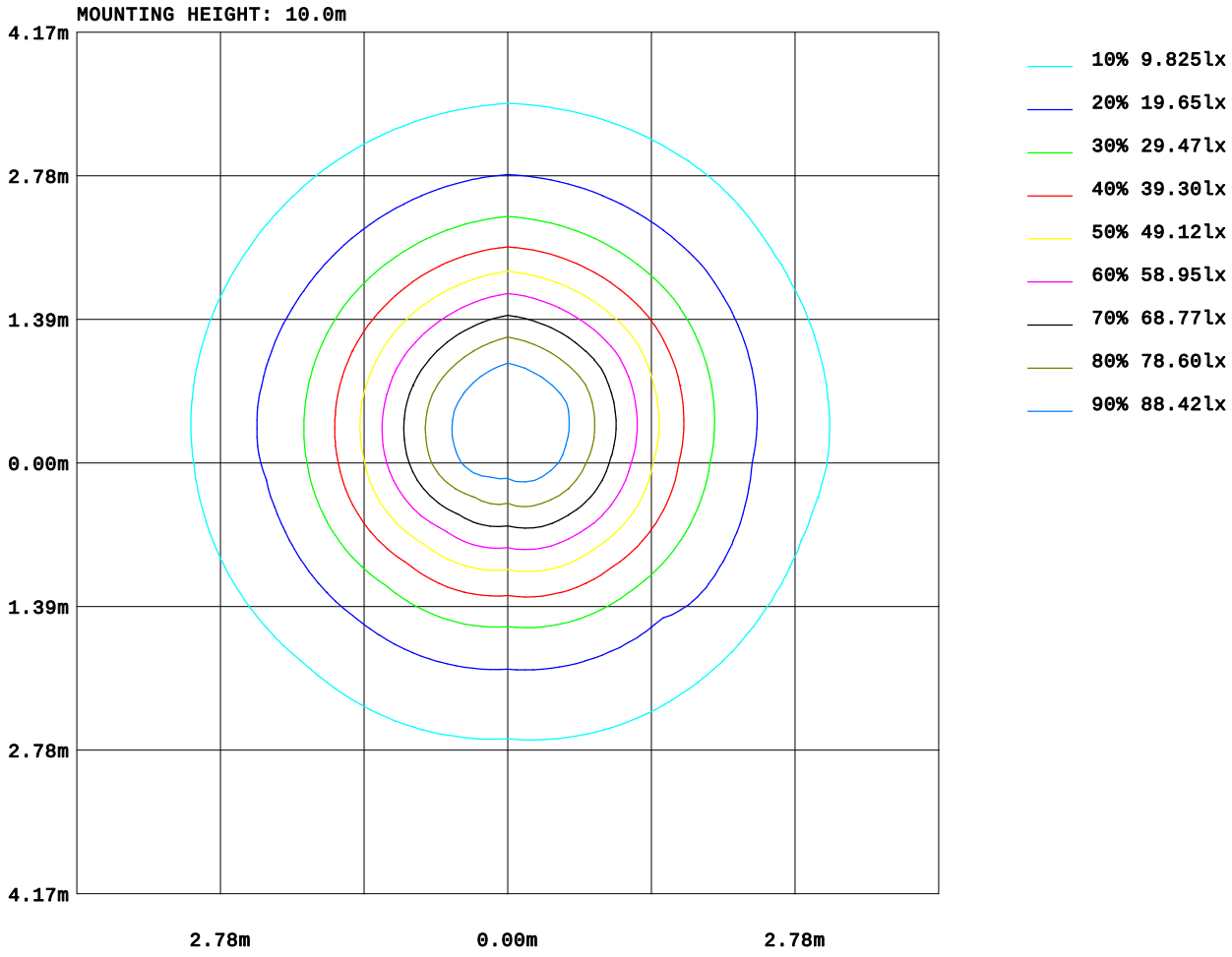
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月10日

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-251185	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月10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-251185	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

AREA FLUX DIAGRAM — UNIT:lm

VERTICAL(DEG)	-27	-24	-21	-18	-15	-12	-9	-6	HORIZONTAL(DEG) 6	9	12	15	18	21	24	27	Φ t	Φ a
27	0.12	0.16	0.21	0.27	0.37	0.49	0.62	0.73	0.81	0.81	0.73	0.62	0.49	0.36	0.26	0.20	0.15	0.11	7.52	0.00
24	0.15	0.21	0.30	0.44	0.64	0.88	1.17	1.44	1.63	1.64	1.46	1.19	0.90	0.65	0.44	0.29	0.20	0.14	13.8	0.00
21	0.19	0.28	0.46	0.71	1.09	1.61	2.17	2.65	2.96	2.97	2.70	2.25	1.69	1.14	0.73	0.46	0.27	0.18	24.5	8.25
18	0.23	0.39	0.66	1.12	1.83	2.66	3.51	4.35	4.98	5.01	4.43	3.60	2.79	1.96	1.19	0.68	0.39	0.23	40.0	29.5
15	0.29	0.52	0.94	1.69	2.71	3.98	5.52	7.11	8.36	8.43	7.31	5.79	4.18	2.88	1.82	0.99	0.53	0.29	63.3	55.0
12	0.35	0.67	1.26	2.28	3.68	5.66	8.29	11.2	13.5	13.6	11.5	8.71	6.08	3.88	2.43	1.35	0.68	0.35	95.6	88.0
9	0.41	0.80	1.57	2.79	4.66	7.53	11.5	16.1	19.7	19.9	16.6	12.2	7.94	4.89	2.94	1.68	0.83	0.41	133	125
	0.45	0.89	1.78	3.15	5.46	8.97	14.2	20.3	24.5	24.8	21.0	14.8	9.34	5.62	3.24	1.88	0.92	0.45	162	155
	0.46	0.90	1.83	3.24	5.71	9.40	15.0	21.5	25.8	26.1	22.0	15.4	9.64	5.75	3.28	1.93	0.94	0.46	170	163
	0.44	0.85	1.72	3.04	5.31	8.59	13.4	19.0	22.5	22.9	19.5	13.8	8.75	5.35	3.07	1.81	0.88	0.43	152	145
	0.39	0.75	1.47	2.62	4.40	6.91	10.3	13.8	16.4	16.8	14.5	10.7	7.14	4.55	2.68	1.54	0.76	0.38	116	109
-9	0.32	0.62	1.13	2.06	3.31	4.99	7.04	9.27	10.6	10.8	9.61	7.33	5.40	3.40	2.17	1.19	0.61	0.32	80.3	72.2
-12	0.25	0.48	0.82	1.44	2.32	3.32	4.59	5.86	6.53	6.59	6.03	5.01	3.57	2.44	1.51	0.84	0.45	0.25	52.3	42.8
-15	0.20	0.33	0.58	0.91	1.46	2.19	2.90	3.47	3.80	3.87	3.65	3.02	2.31	1.54	0.95	0.55	0.32	0.20	32.3	20.6
-18	0.15	0.23	0.37	0.59	0.86	1.27	1.73	2.10	2.29	2.31	2.15	1.79	1.32	0.89	0.56	0.35	0.22	0.15	19.3	1.83
-21	0.12	0.16	0.23	0.36	0.54	0.71	0.91	1.09	1.19	1.20	1.11	0.93	0.72	0.50	0.33	0.23	0.16	0.12	10.6	0.00
-24	0.09	0.12	0.16	0.22	0.30	0.41	0.51	0.59	0.62	0.62	0.58	0.49	0.38	0.29	0.22	0.16	0.12	0.09	5.94	0.00
-27	0.07	0.09	0.12	0.15	0.19	0.23	0.27	0.30	0.32	0.32	0.30	0.27	0.23	0.19	0.15	0.12	0.09	0.07	3.46	0.00
Φ t	4.68	8.44	15.6	27.1	44.8	69.8	104	141	167	169	145	108	72.9	46.3	28.0	16.2	8.54	4.63	1238	
Φ a	0.00	0.00	0.00	13.1	34.8	61.0	96.3	134	160	162	138	101	64.7	36.7	14.8	0.00	0.00	0.00		1017

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月10日

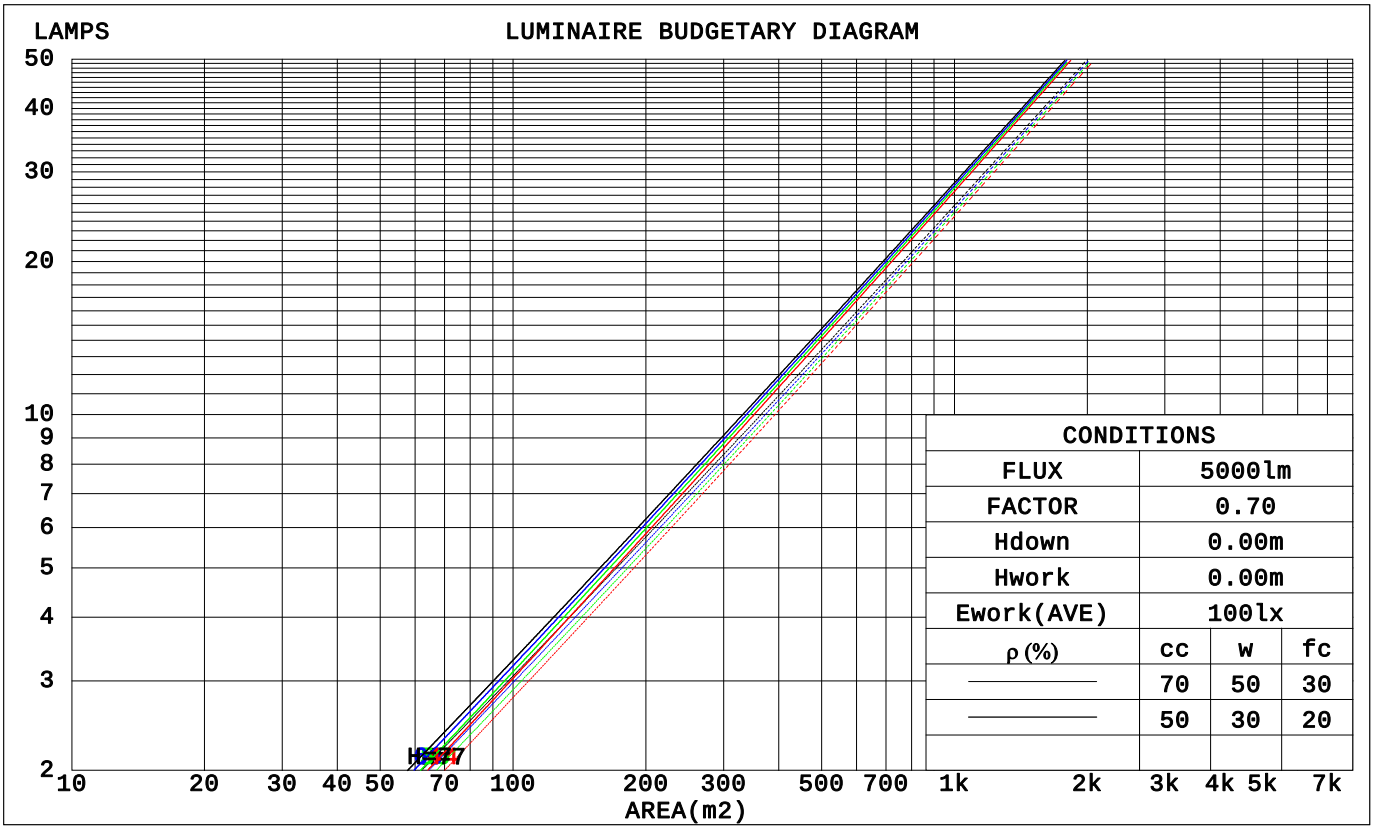
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.300 m
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER: Havit Commercial		
Address:		
NAME: HCP-251185	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	1.11	1.11	1.11	1.06	1.06	1.06	1.01	1.01	1.01	.99
1.0	1.13	1.11	1.10	1.11	1.09	1.08	1.07	1.06	1.04	1.03	1.02	1.01	.00	.99	.98	.96
2.0	1.08	1.06	1.03	1.07	1.04	1.02	1.03	1.01	.00	1.00	.99	.97	.98	.96	.95	.94
3.0	1.04	1.01	.98	1.03	.00	.97	1.00	.98	.96	.98	.96	.94	.96	.94	.93	.92
4.0	1.01	.97	.94	.00	.96	.94	.98	.95	.93	.96	.93	.92	.94	.92	.91	.89
5.0	.98	.94	.91	.97	.93	.91	.95	.92	.90	.94	.91	.89	.92	.90	.88	.87
6.0	.95	.91	.88	.94	.91	.88	.93	.90	.88	.92	.89	.87	.90	.88	.86	.85
7.0	.92	.89	.86	.92	.88	.86	.91	.88	.85	.90	.87	.85	.89	.86	.84	.84
8.0	.90	.86	.84	.90	.86	.84	.89	.86	.83	.88	.85	.83	.87	.85	.83	.82
9.0	.88	.84	.82	.88	.84	.82	.87	.84	.82	.86	.83	.81	.85	.83	.81	.80
10.0	.86	.83	.80	.86	.82	.80	.85	.82	.80	.84	.82	.80	.84	.81	.80	.79



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月10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-251185	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	.129	.073	.023	.122	.070	.022	.110	.063	.020	.098	.056	.018	.087	.050	.016	
2.0	.118	.065	.020	.113	.062	.019	.102	.057	.018	.092	.052	.016	.083	.047	.015	
3.0	.109	.058	.017	.104	.056	.017	.096	.052	.016	.088	.048	.015	.080	.044	.014	
4.0	.101	.053	.016	.098	.051	.015	.090	.048	.014	.083	.045	.013	.077	.042	.013	
5.0	.095	.048	.014	.092	.047	.014	.085	.044	.013	.079	.042	.012	.074	.039	.012	
6.0	.089	.045	.013	.086	.044	.013	.081	.041	.012	.076	.039	.012	.071	.037	.011	
7.0	.084	.042	.012	.082	.041	.012	.077	.039	.011	.073	.037	.011	.069	.036	.010	
8.0	.080	.039	.011	.078	.038	.011	.074	.037	.011	.070	.035	.010	.066	.034	.010	
9.0	.076	.037	.010	.074	.036	.010	.071	.035	.010	.067	.034	.010	.064	.032	.009	
10.0	.073	.035	.010	.071	.034	.010	.068	.033	.009	.065	.032	.009	.062	.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	.197	.197	.197	.168	.168	.168	.115	.115	.115	.066	.066	.066	.021	.021	.021	
1.0	.174	.164	.155	.149	.141	.133	.102	.097	.092	.059	.056	.054	.019	.018	.017	
2.0	.155	.139	.125	.133	.120	.108	.091	.083	.076	.053	.048	.044	.017	.016	.014	
3.0	.140	.120	.103	.120	.103	.090	.082	.072	.063	.048	.042	.037	.015	.014	.012	
4.0	.127	.104	.087	.109	.090	.075	.075	.063	.053	.043	.037	.031	.014	.012	.010	
5.0	.116	.092	.074	.099	.079	.064	.069	.055	.045	.040	.033	.027	.013	.011	.009	
6.0	.107	.081	.063	.092	.071	.055	.063	.049	.039	.037	.029	.023	.012	.009	.008	
7.0	.099	.073	.055	.085	.063	.048	.059	.044	.034	.034	.026	.020	.011	.009	.007	
8.0	.092	.066	.049	.079	.057	.042	.055	.040	.030	.032	.024	.018	.010	.008	.006	
9.0	.086	.060	.043	.074	.052	.038	.051	.037	.027	.030	.022	.016	.010	.007	.005	
10.0	.081	.056	.039	.070	.048	.034	.048	.034	.024	.028	.020	.014	.009	.007	.005	

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月10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-251185	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	-6.5	-5.9	-6.3	-5.7	-5.6	-7.4	-6.8	-7.2	-6.6	-6.5
3H	-5.9	-5.3	-5.6	-5.1	-4.9	-6.7	-6.1	-6.4	-5.9	-5.7
4H	-5.3	-4.8	-5.0	-4.6	-4.4	-6.1	-5.6	-5.8	-5.4	-5.1
6H	-4.5	-4.0	-4.2	-3.7	-3.5	-5.2	-4.7	-4.9	-4.5	-4.2
8H	-3.9	-3.5	-3.6	-3.2	-2.9	-4.6	-4.1	-4.3	-3.8	-3.6
12H	-3.2	-2.8	-2.9	-2.5	-2.2	-3.9	-3.4	-3.6	-3.1	-2.9
4H 2H	-6.6	-6.1	-6.4	-5.9	-5.7	-7.5	-7.0	-7.2	-6.8	-6.6
3H	-5.9	-5.5	-5.6	-5.2	-4.9	-6.7	-6.3	-6.4	-6.0	-5.7
4H	-5.3	-4.9	-4.9	-4.6	-4.2	-6.0	-5.6	-5.7	-5.3	-5.0
6H	-4.2	-3.8	-3.8	-3.5	-3.1	-4.9	-4.5	-4.5	-4.2	-3.8
8H	-3.5	-3.1	-3.1	-2.8	-2.4	-4.1	-3.7	-3.7	-3.3	-3.0
12H	-2.5	-2.2	-2.1	-1.8	-1.4	-3.1	-2.8	-2.7	-2.4	-2.0
8H 4H	-5.4	-5.0	-5.0	-4.7	-4.3	-6.1	-5.7	-5.7	-5.4	-5.0
6H	-4.2	-3.9	-3.8	-3.5	-3.1	-4.9	-4.6	-4.5	-4.2	-3.8
8H	-3.3	-3.1	-2.9	-2.6	-2.2	-3.9	-3.6	-3.4	-3.2	-2.7
12H	-2.1	-1.9	-1.6	-1.4	-0.9	-2.7	-2.5	-2.2	-2.0	-1.5
12H 4H	-5.4	-5.1	-5.0	-4.7	-4.3	-6.1	-5.8	-5.7	-5.4	-5.0
6H	-4.2	-4.0	-3.8	-3.5	-3.1	-4.9	-4.6	-4.4	-4.2	-3.8
8H	-3.3	-3.1	-2.9	-2.7	-2.2	-3.9	-3.7	-3.4	-3.2	-2.7
Variations with the observer position at spacings:										
S = 1.0H	+ 1.3 / - 0.9					+ 1.1 / - 0.8				
1.5H	+ 2.6 / - 1.2					+ 2.0 / - 1.2				
2.0H	+ 2.0 / - 1.0					+ 1.6 / - 1.1				

CIE Pub.117 Corrected 1238 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.7)

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月10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-251185	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	90	84	81	90	84	81	89	84	81	77
0.80	97	92	89	97	92	88	95	91	88	85
1.00	101	96	93	100	95	92	99	95	92	88
1.25	105	100	97	104	99	96	102	98	95	91
1.50	107	103	100	106	102	99	104	100	98	94
2.00	109	105	102	108	104	102	105	102	100	95
2.50	111	107	105	109	106	104	106	104	102	96
3.00	112	109	107	110	108	105	107	105	103	97
4.00	114	112	110	112	110	108	108	107	105	98
5.00	115	113	112	113	111	110	109	108	107	99
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended					SHRNOM = 1.25	

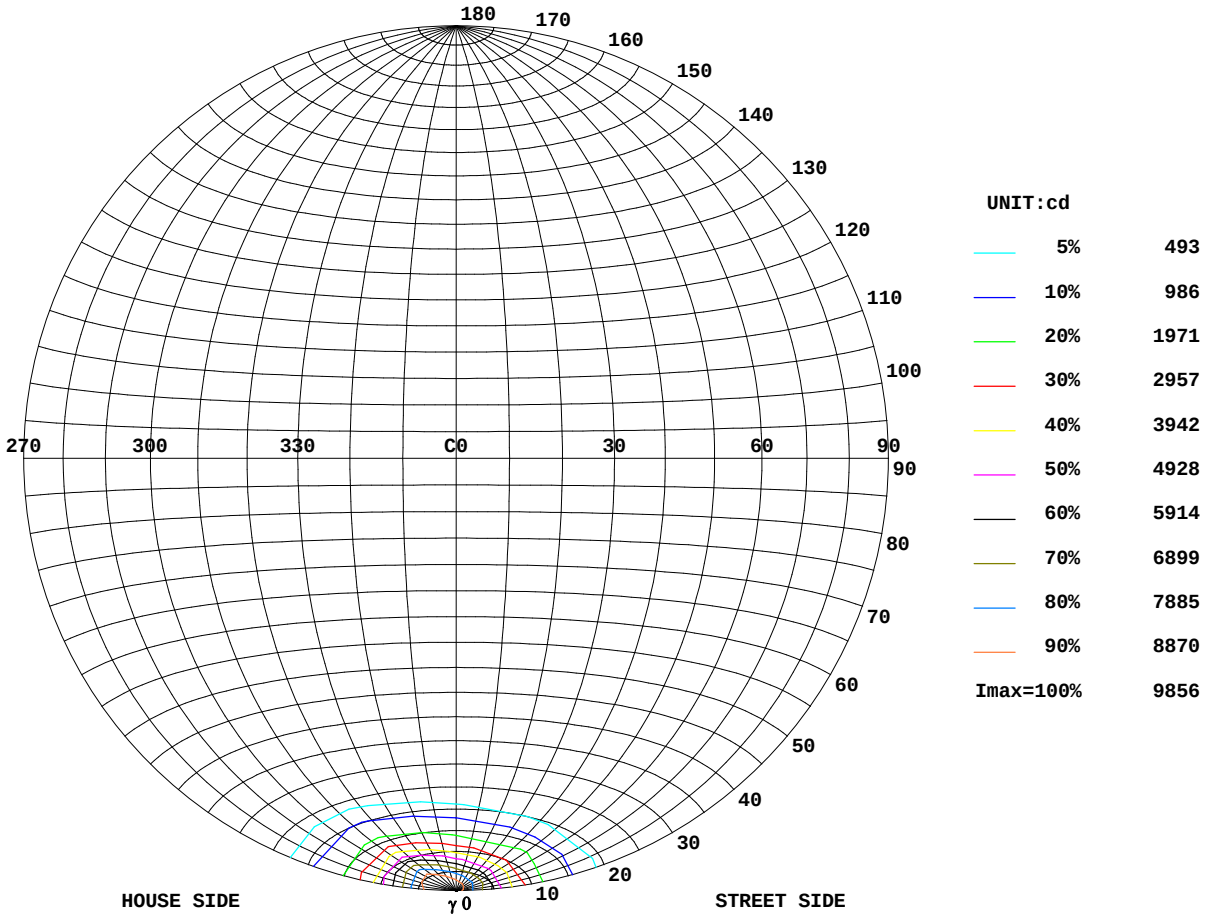
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月10日

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-251185	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



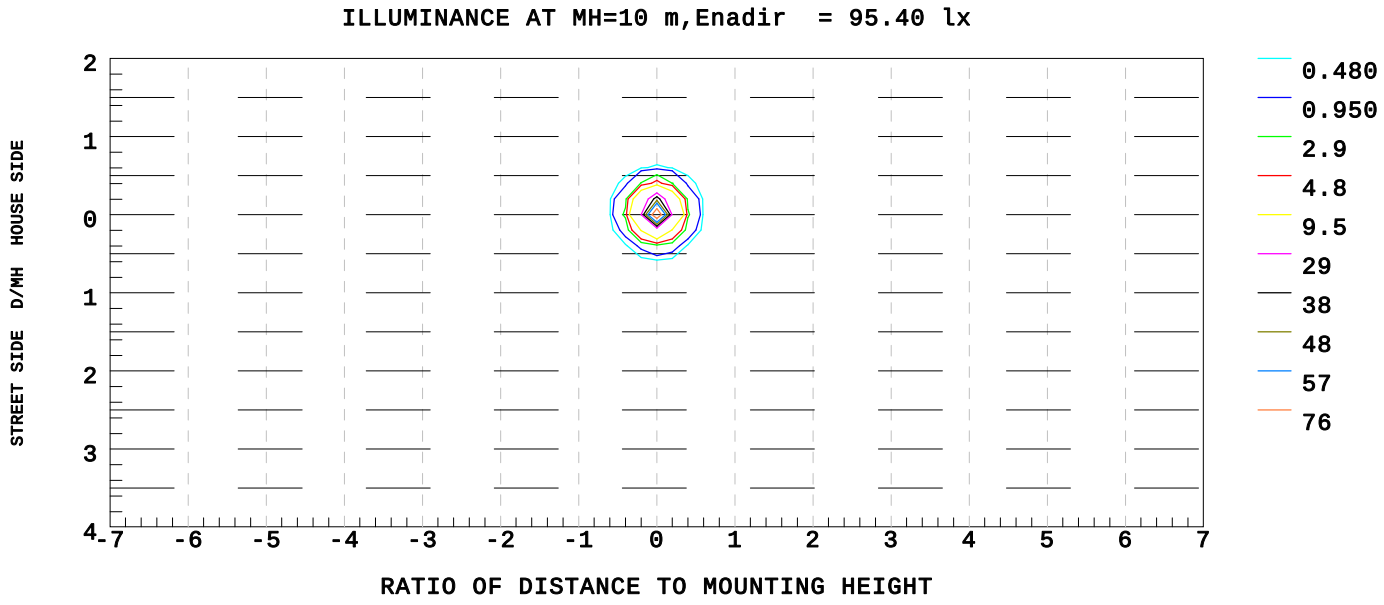
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月10日

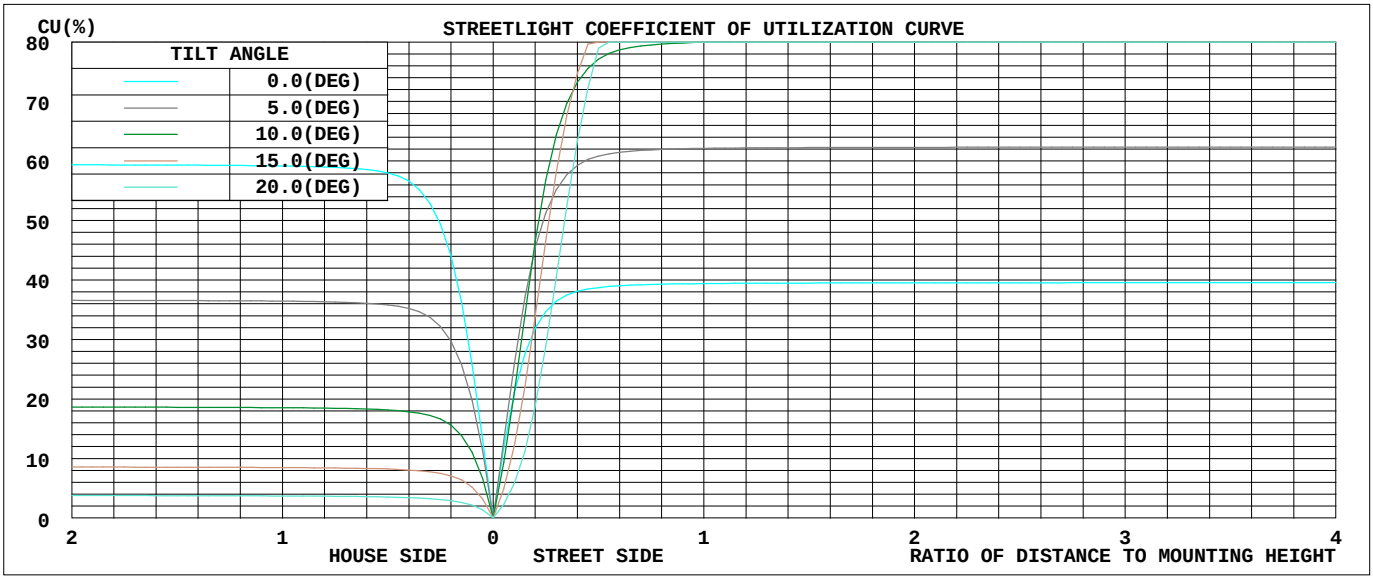
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.300 m
Remarks:

ISOLUX DIAGRAM

Report number:

MANUFACTURER: Havit Commercial		
Address:		
NAME: HCP-251185	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:





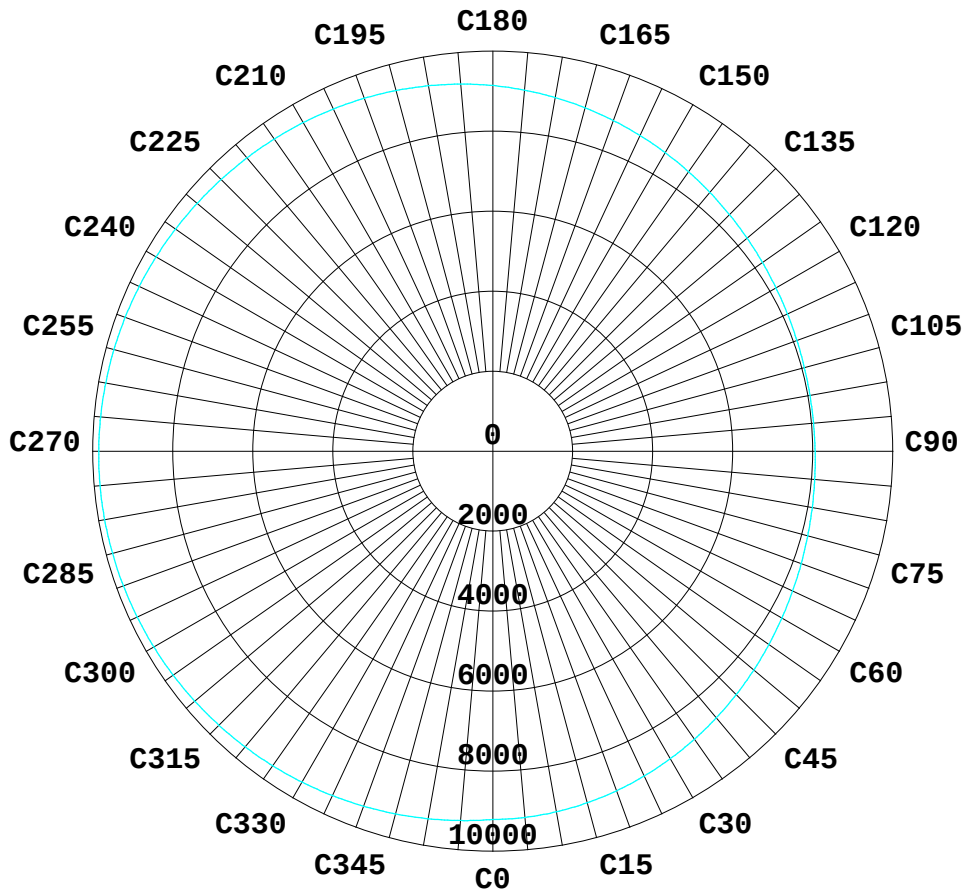
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月10日

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-251185	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月10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-251185	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

UNIT: cd

γ (DEG) \ C(DEG)	0	45	90	135	180	225	270	315
0.0	9540	9465	9277	9369	9540	9465	9277	9369
5.0	7489	6358	5724	6054	7343	8506	9275	8774
10.0	3682	2961	2565	2829	3631	4692	5546	4961
15.0	1630	1257	1087	1183	1537	2003	2428	2170
20.0	650	436	382	417	617	868	1010	940
25.0	199	132	114	135	214	281	325	292
30.0	75.5	56.5	59.3	56.4	73.0	103	106	100
35.0	39.3	27.6	31.9	27.6	34.2	50.9	47.6	49.5
40.0	20.9	13.2	17.3	14.2	17.6	27.7	22.5	26.2
45.0	12.0	6.20	10.0	6.88	8.95	15.4	10.6	14.4
50.0	7.71	3.16	6.68	3.44	4.54	9.36	5.16	8.88
55.0	5.37	1.58	4.68	1.72	2.41	6.13	2.75	5.92
60.0	3.78	0.69	3.72	0.90	1.10	4.13	1.30	4.20
65.0	3.30	0.62	3.16	0.34	0.83	3.58	0.83	3.51
70.0	2.89	0.41	2.54	0.28	0.69	3.10	0.55	2.96
75.0	2.41	0.34	2.20	0.21	0.34	2.61	0.34	2.41
80.0	2.34	0.28	1.92	0.21	0.41	2.34	0.14	1.99
85.0	1.99	0.21	1.92	0.21	0.34	2.06	0.21	2.06
90.0	1.79	0.21	1.72	0.14	0.28	1.86	0.14	1.86
95.0	1.72	0.14	1.44	0.14	0.34	1.79	0.21	1.65
100.0	1.58	0.14	1.58	0.14	0.21	1.58	0.21	1.51
105.0	1.51	0.21	1.44	0.07	0.41	1.51	0.21	1.51
110.0	1.24	0.21	1.24	0.21	0.41	1.44	0.21	1.37
115.0	1.37	0.28	1.30	0.00	0.48	1.37	0.28	1.44
120.0	1.30	0.28	1.24	0.28	0.48	1.30	0.28	1.30
125.0	1.24	0.28	1.24	0.28	0.41	1.30	0.34	1.17
130.0	1.17	0.41	1.17	0.34	0.62	1.17	0.34	1.17
135.0	1.24	0.55	1.24	0.48	0.76	1.17	0.41	1.10
140.0	1.17	0.90	1.44	0.83	1.17	1.44	0.69	1.37
145.0	1.86	1.51	2.20	1.44	1.92	1.99	1.24	1.79
150.0	2.82	2.89	3.44	2.75	3.30	3.16	2.27	2.96
155.0	4.40	4.75	5.09	4.61	5.23	4.82	3.99	4.68
160.0	5.99	6.40	6.47	6.26	6.88	7.02	5.78	6.68
165.0	7.16	7.23	7.23	7.02	7.78	8.06	6.95	7.78
170.0	7.50	7.02	7.30	6.82	7.99	8.19	7.64	7.99
175.0	7.44	6.68	7.16	6.33	7.71	7.50	7.37	7.44
180.0	7.44	6.88	7.37	6.54	7.57	7.16	7.16	6.82

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月10日

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