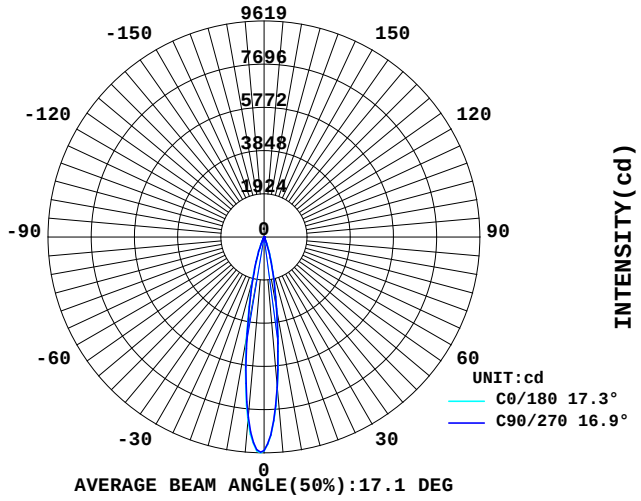
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

MANUFACTURER: Havit Commercial		
Address:		
NAME: HCP-251184	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

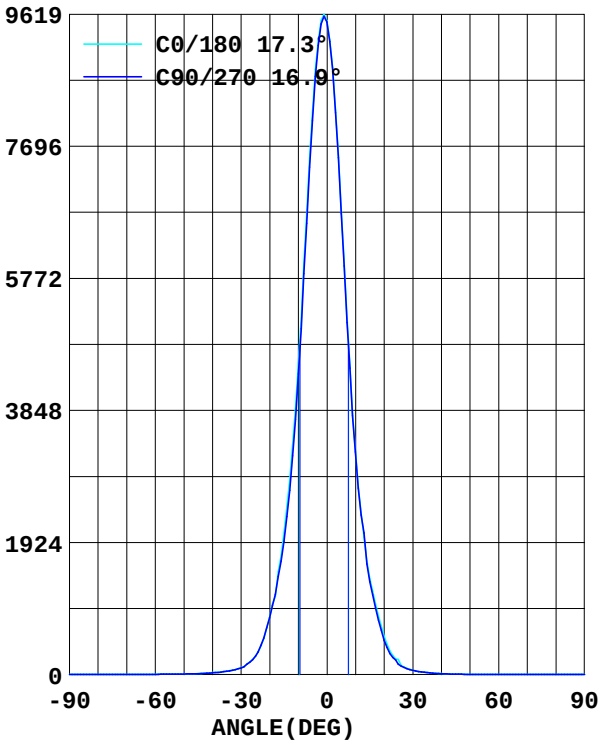
DATA OF LAMP		Imax(cd)	9705	S/MH(C0/180)	0.33
MODEL		EFFICIENCY(%)	100.0	S/MH(C90/270)	0.32
NOMINAL POWER(W)	20	TOTAL FLUX(lm)	1252.1	Voltage(V)	23.25
RATED VOLTAGE(V)	23	EFFICIENCY(lm/W)	64.9	Current(A)	0.828
NOMINAL FLUX(lm)	1252.2	η up(%)	0.9	Power(W)	19.28
LAMPS QUANTITY	1	η down(%)	99.1	Power Factor(PF)	1.000
TEST VOLTAGE(V)	23.3	Effictive Flux(lm)	1025.9	EEI	0.246

LUMINOUS INTENSITY DISTRIBUTION



AVERAGE BEAM ANGLE(50%):17.1 DEG

LUMINOUS INTENSITY DISTRIBUTION



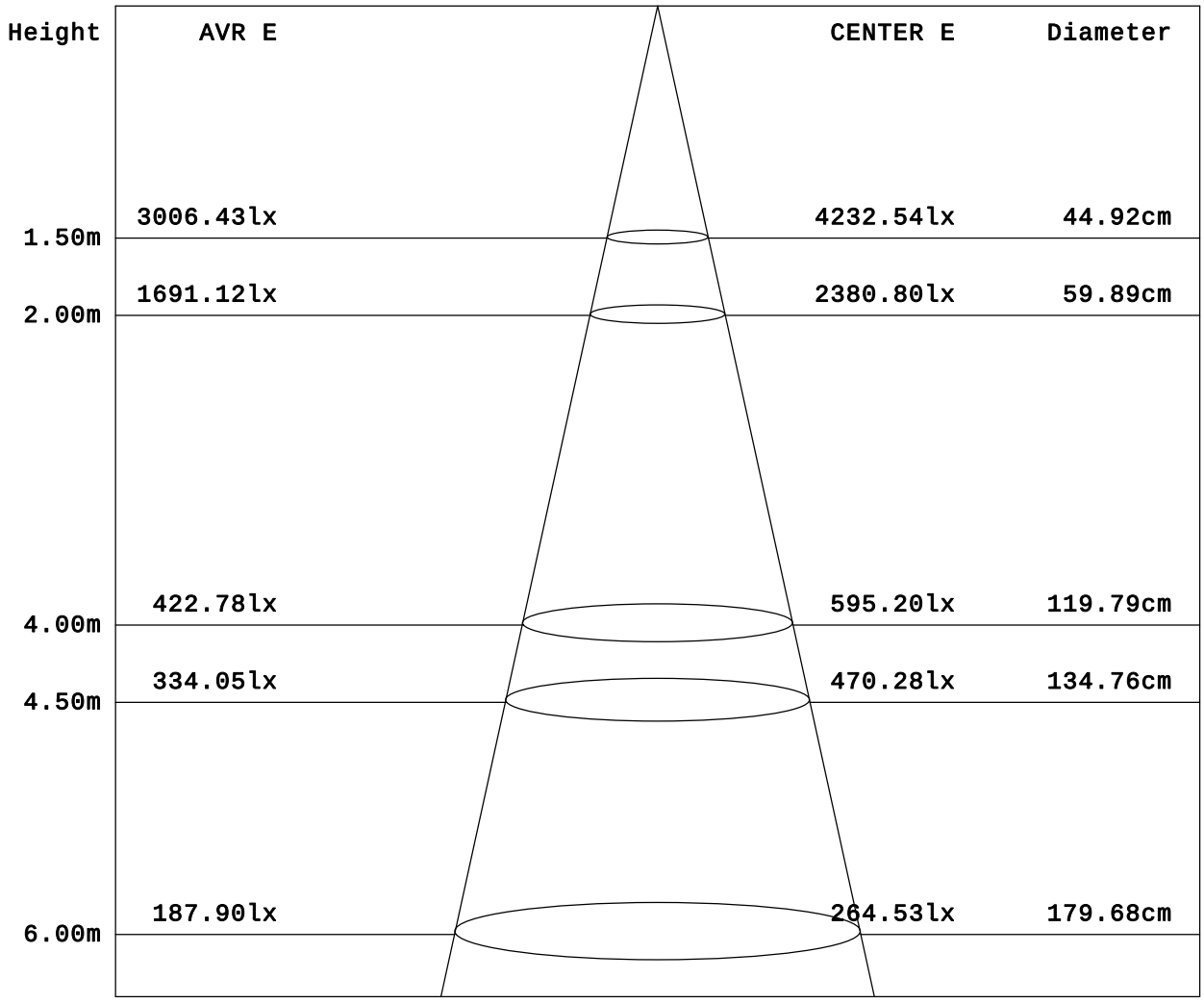
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月10日

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-251184	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



Angle:17.0deg

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-251184	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	zone	total
5.0	8197	8536	8073	7245	6759	6572	6712	7500	0- 5	201.9	201.9
10.0	4539	4776	4382	3588	3269	3087	3242	3856	5- 10	385.5	587.5
15.0	2063	2131	1943	1545	1402	1173	1356	1771	10- 15	305.9	893.5
20.0	832.3	896.2	828.4	665.0	557.9	515.5	498.4	687.7	15- 20	184.9	1079
25.0	269.9	270.6	269.4	215.3	219.6	177.5	153.6	225.8	20- 25	84.12	1163
30.0	100.0	94.51	97.82	70.26	63.24	70.61	62.41	87.76	25- 30	34.29	1197
35.0	50.84	44.91	47.80	32.17	29.96	35.82	28.79	44.15	30- 35	16.71	1214
40.0	28.10	22.11	25.14	15.22	14.74	19.63	13.91	24.18	35- 40	9.559	1223
45.0	15.29	10.40	13.98	7.646	7.371	11.64	6.820	13.64	40- 45	5.531	1229
50.0	9.300	5.028	8.680	3.995	3.720	7.302	3.306	8.335	45- 50	3.321	1232
55.0	6.200	2.548	5.993	1.997	1.928	5.166	1.791	5.717	50- 55	2.159	1234
60.0	4.408	1.240	4.340	1.102	1.240	3.788	0.896	4.202	55- 60	1.493	1236
65.0	3.651	0.827	3.513	0.827	0.964	3.444	0.758	3.513	60- 65	1.158	1237
70.0	3.168	0.620	3.100	0.620	0.689	2.962	0.551	2.824	65- 70	1.004	1238
75.0	2.617	0.551	2.755	0.482	0.689	2.617	0.551	2.686	70- 75	0.897	1239
80.0	2.480	0.276	2.480	0.413	0.551	2.411	0.413	2.411	75- 80	0.812	1240
85.0	2.204	0.413	2.273	0.413	0.344	2.204	0.276	2.204	80- 85	0.745	1240
90.0	2.066	0.344	1.997	0.344	0.551	1.928	0.207	1.928	85- 90	0.677	1241
95.0	1.860	0.344	1.928	0.276	0.482	1.860	0.344	1.928	90- 95	0.618	1242
100.0	1.791	0.276	1.722	0.069	0.482	1.791	0.344	1.722	95-100	0.583	1242
105.0	1.584	0.344	1.653	0.276	0.551	1.584	0.207	1.584	100-105	0.553	1243
110.0	1.653	0.344	1.515	0.276	0.620	1.584	0.207	1.515	105-110	0.513	1243
115.0	1.515	0.413	1.308	0.413	0.551	1.308	0.413	1.308	110-115	0.482	1244
120.0	1.515	0.413	1.446	0.413	0.689	1.377	0.482	1.446	115-120	0.462	1244
125.0	1.171	0.413	1.240	0.482	0.689	1.308	0.482	1.377	120-125	0.427	1245
130.0	1.240	0.551	1.377	0.482	0.827	1.377	0.620	1.377	125-130	0.409	1245
135.0	1.102	0.620	1.377	0.551	1.033	1.446	0.689	1.377	130-135	0.407	1245
140.0	1.240	0.758	1.446	0.896	1.446	1.860	1.171	1.722	135-140	0.432	1246
145.0	1.860	1.240	1.791	1.515	2.204	2.755	2.135	2.342	140-145	0.536	1246
150.0	2.686	1.997	2.548	2.686	3.788	4.133	3.651	3.788	145-150	0.742	1247
155.0	4.133	3.788	4.064	4.408	5.580	6.268	5.511	5.580	150-155	1.007	1248
160.0	5.648	5.373	5.511	6.200	7.164	7.784	7.026	7.440	155-160	1.204	1249
165.0	6.957	6.957	6.889	7.233	7.922	8.335	7.784	8.335	160-165	1.166	1251
170.0	7.509	7.302	7.509	7.371	7.991	7.991	7.922	8.266	165-170	0.909	1251
175.0	7.509	6.820	7.371	6.957	7.715	7.440	7.509	7.715	170-175	0.541	1252
180.0	7.371	6.682	7.509	6.957	7.509	7.095	7.302	7.095	175-180	0.175	1252
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:

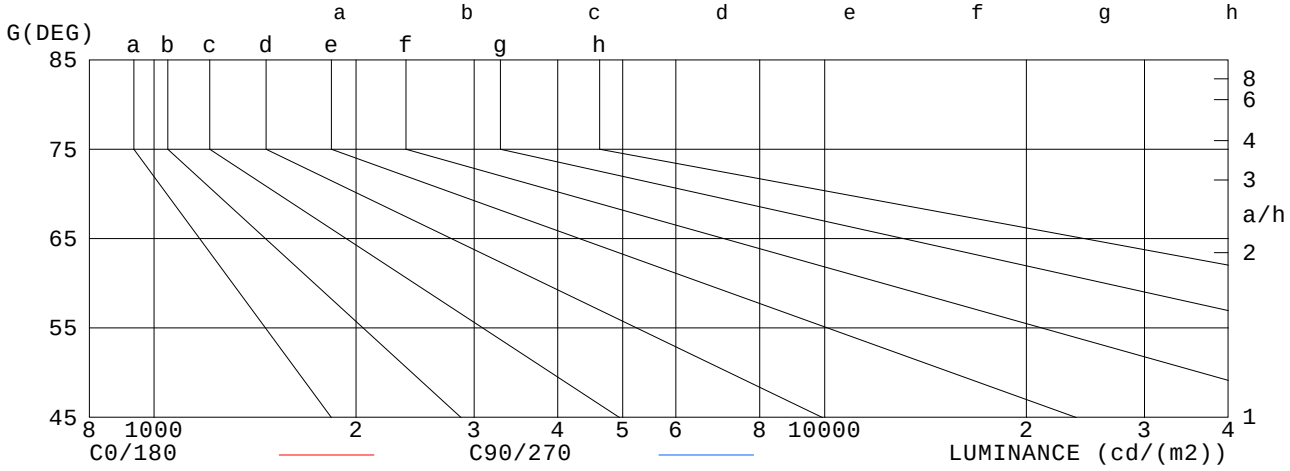
LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER: Havit Commercial		
Address:		
NAME: HCP-251184	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	253	261
80	143	143
75	101	106
70	93	91
65	86	83
60	88	87
55	108	104
50	145	135
45	216	198

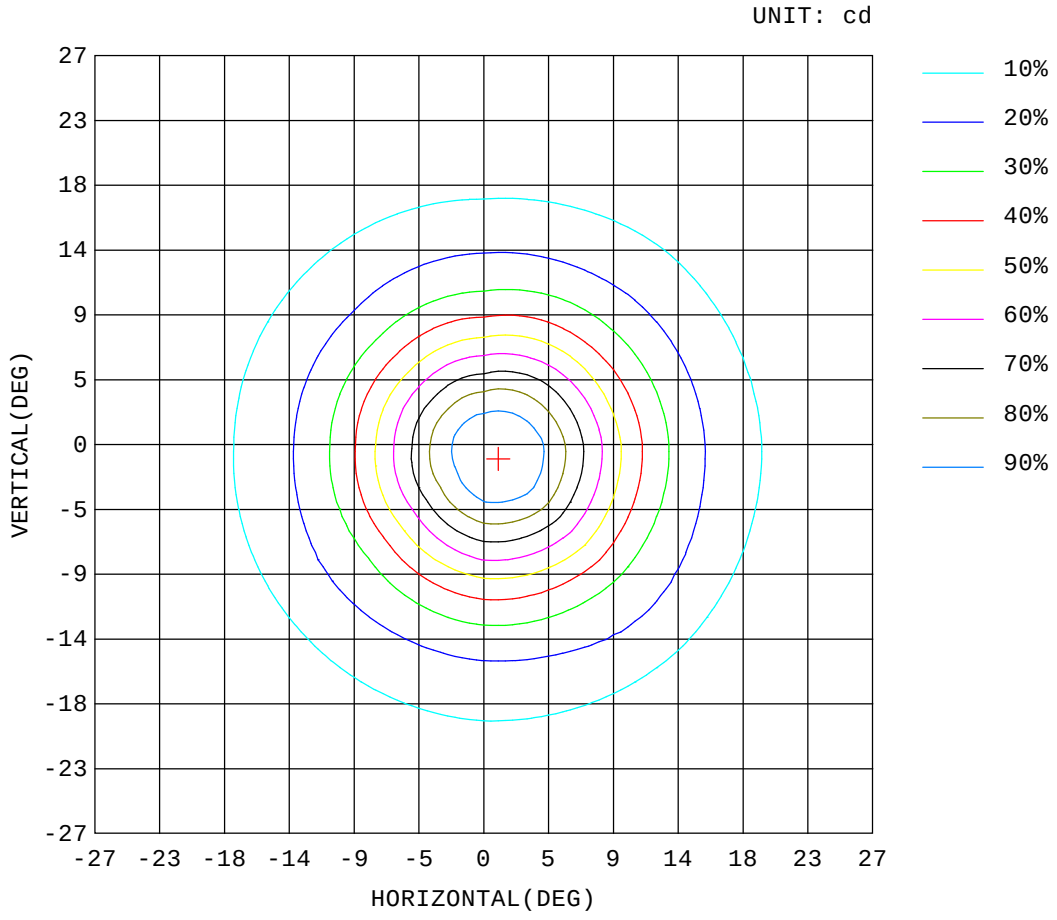
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月10日

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-251184	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



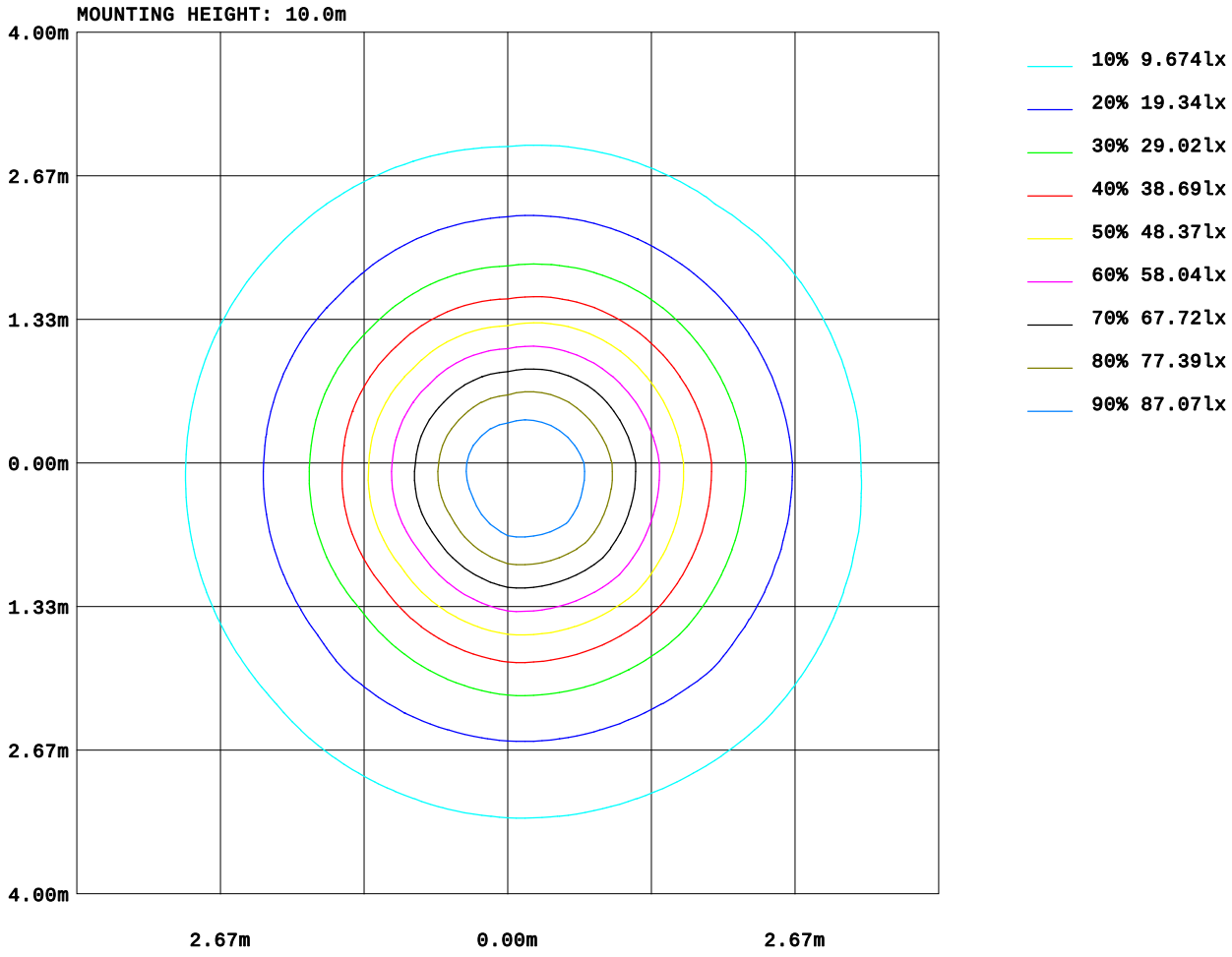
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月10日

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-251184	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-251184	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	0.08	0.11	0.14	0.18	0.23	0.28	0.33	0.37	0.40	0.41	0.40	0.37	0.32	0.26	0.21	0.17	0.14	0.11	4.50	0.00
24	0.11	0.15	0.20	0.27	0.37	0.49	0.62	0.72	0.78	0.80	0.78	0.69	0.58	0.45	0.33	0.24	0.18	0.14	7.88	0.00
21	0.13	0.19	0.29	0.44	0.62	0.87	1.15	1.41	1.56	1.61	1.55	1.33	1.05	0.77	0.55	0.37	0.25	0.18	14.3	0.00
18	0.17	0.26	0.44	0.67	1.05	1.59	2.16	2.62	2.88	2.97	2.85	2.46	1.95	1.36	0.88	0.57	0.35	0.23	25.5	8.92
15	0.21	0.37	0.62	1.05	1.77	2.61	3.36	4.27	4.90	5.10	4.83	4.13	3.15	2.28	1.43	0.84	0.51	0.29	41.7	31.9
12	0.26	0.50	0.87	1.59	2.60	3.64	5.34	6.88	7.98	8.34	7.82	6.51	4.92	3.32	2.16	1.22	0.67	0.39	65.0	56.6
9	0.32	0.62	1.16	2.17	3.35	5.29	7.70	10.6	12.7	13.3	12.2	9.66	6.95	4.67	2.87	1.67	0.86	0.48	96.7	89.5
	0.39	0.72	1.44	2.62	4.20	6.81	10.5	15.0	18.6	19.6	17.6	13.3	9.15	5.91	3.56	2.07	1.04	0.55	134	127
	0.42	0.79	1.61	2.89	4.78	7.91	12.7	18.6	23.4	24.6	21.9	16.3	10.8	6.83	4.08	2.32	1.18	0.60	162	155
	0.43	0.80	1.65	2.95	4.91	8.12	13.1	19.3	24.3	25.9	22.9	17.0	11.2	7.01	4.20	2.37	1.21	0.61	168	161
	0.40	0.75	1.54	2.77	4.57	7.34	11.5	16.7	21.4	22.8	20.3	15.1	10.1	6.40	3.88	2.21	1.11	0.58	150	143
-9	0.33	0.67	1.30	2.39	3.83	6.00	8.88	12.6	15.9	16.9	15.1	11.7	8.15	5.42	3.24	1.87	0.94	0.51	116	109
-12	0.27	0.54	1.00	1.86	2.99	4.51	6.47	8.65	10.5	11.1	10.0	8.14	6.10	4.11	2.54	1.43	0.74	0.43	81.5	74.0
-15	0.22	0.39	0.72	1.29	2.17	3.18	4.39	5.66	6.61	6.87	6.36	5.44	4.15	2.86	1.80	1.00	0.58	0.32	54.0	44.7
-18	0.17	0.27	0.49	0.82	1.38	2.12	2.88	3.56	4.08	4.23	3.97	3.33	2.61	1.83	1.12	0.67	0.42	0.24	34.2	22.8
-21	0.13	0.20	0.31	0.51	0.81	1.23	1.71	2.14	2.43	2.50	2.33	1.97	1.50	1.03	0.68	0.46	0.27	0.18	20.4	3.17
-24	0.10	0.14	0.21	0.31	0.47	0.68	0.90	1.12	1.29	1.32	1.21	1.01	0.79	0.61	0.43	0.27	0.19	0.14	11.2	0.00
-27	0.07	0.10	0.15	0.20	0.28	0.38	0.49	0.59	0.66	0.67	0.63	0.56	0.46	0.34	0.25	0.19	0.14	0.11	6.27	0.00
Φ t	4.21	7.59	14.1	25.0	40.4	63.1	94.4	131	161	169	153	119	84.1	55.5	34.3	19.9	10.8	6.06	1252	
Φ a	0.00	0.00	0.00	9.37	30.2	54.4	86.5	124	154	162	146	112	75.9	46.6	23.2	3.32	0.00	0.00		1026

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

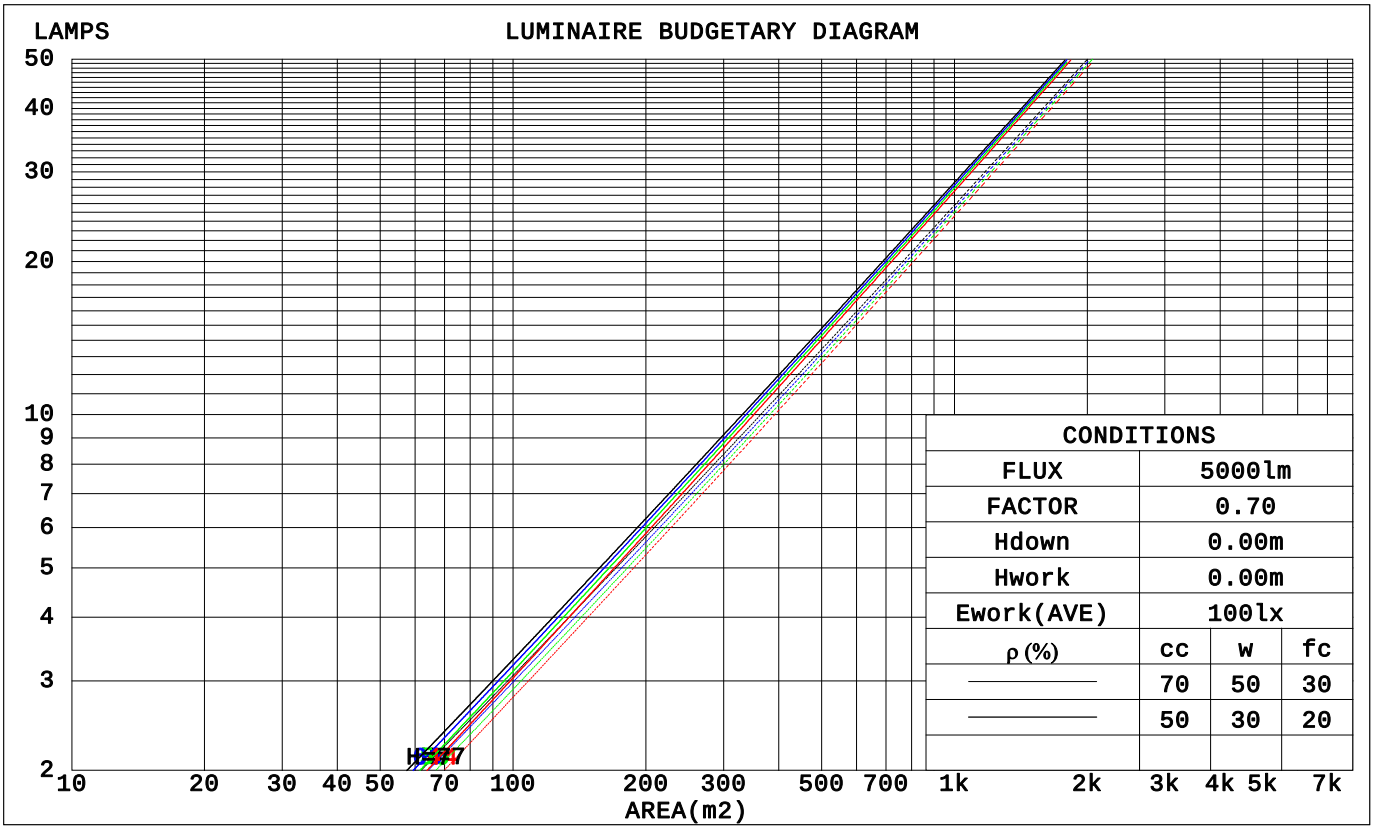
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.300 m
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER: Havit Commercial		
Address:		
NAME: HCP-251184	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	1.05	1.04	1.03	1.02	1.01	.99	.99	.98	.96
2.0	1.08	1.05	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	.91
4.0	1.01	.97	.94	.00	.96	.94	.97	.95	.92	.96	.93	.91	.94	.92	.90	.89
5.0	.97	.94	.91	.97	.93	.91	.95	.92	.90	.93	.91	.89	.92	.90	.88	.87
6.0	.95	.91	.88	.94	.90	.88	.93	.90	.87	.91	.89	.87	.90	.88	.86	.85
7.0	.92	.88	.86	.92	.88	.86	.90	.87	.85	.89	.87	.85	.88	.86	.84	.83
8.0	.90	.86	.84	.89	.86	.83	.88	.85	.83	.88	.85	.83	.87	.84	.82	.82
9.0	.88	.84	.82	.87	.84	.82	.87	.83	.81	.86	.83	.81	.85	.83	.81	.80
10.0	.86	.82	.80	.86	.82	.80	.85	.82	.80	.84	.81	.79	.84	.81	.79	.78



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-251184	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	.130	.074	.023	.123	.070	.022	.110	.063	.020	.098	.057	.018	.088	.051	.016	
2.0	.119	.065	.020	.113	.062	.019	.103	.057	.018	.093	.052	.016	.084	.047	.015	
3.0	.110	.058	.017	.105	.056	.017	.096	.052	.016	.088	.048	.015	.080	.045	.014	
4.0	.102	.053	.016	.098	.051	.015	.091	.048	.014	.084	.045	.014	.077	.042	.013	
5.0	.095	.049	.014	.092	.047	.014	.086	.045	.013	.080	.042	.013	.074	.040	.012	
6.0	.090	.045	.013	.087	.044	.013	.081	.042	.012	.076	.040	.012	.072	.038	.011	
7.0	.085	.042	.012	.082	.041	.012	.078	.039	.011	.073	.037	.011	.069	.036	.011	
8.0	.080	.039	.011	.078	.039	.011	.074	.037	.011	.070	.036	.010	.067	.034	.010	
9.0	.077	.037	.010	.075	.036	.010	.071	.035	.010	.068	.034	.010	.064	.033	.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	.169	.169	.169	.115	.115	.115	.066	.066	.066	.021	.021	.021	
1.0	.175	.165	.155	.149	.141	.134	.102	.097	.093	.059	.056	.054	.019	.018	.017	
2.0	.156	.140	.126	.134	.120	.109	.092	.083	.076	.053	.048	.044	.017	.016	.014	
3.0	.141	.120	.104	.120	.104	.090	.083	.072	.063	.048	.042	.037	.015	.014	.012	
4.0	.128	.105	.087	.109	.090	.076	.075	.063	.053	.044	.037	.032	.014	.012	.010	
5.0	.117	.092	.074	.100	.080	.065	.069	.056	.046	.040	.033	.027	.013	.011	.009	
6.0	.107	.082	.064	.092	.071	.056	.064	.050	.039	.037	.029	.023	.012	.010	.008	
7.0	.099	.074	.056	.085	.064	.049	.059	.045	.034	.034	.026	.021	.011	.009	.007	
8.0	.093	.067	.049	.080	.058	.043	.055	.041	.030	.032	.024	.018	.010	.008	.006	
9.0	.087	.061	.044	.075	.053	.038	.052	.037	.027	.030	.022	.016	.010	.007	.005	
10.0	.082	.056	.039	.070	.049	.034	.049	.034	.024	.028	.020	.015	.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-251184	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	-4.5	-3.9	-4.2	-3.7	-3.6	-4.7	-4.1	-4.5	-4.0	-3.8
3H	-4.1	-3.5	-3.8	-3.3	-3.1	-4.3	-3.7	-4.0	-3.6	-3.4
4H	-3.7	-3.2	-3.4	-3.0	-2.7	-3.9	-3.4	-3.6	-3.2	-2.9
6H	-3.1	-2.6	-2.8	-2.3	-2.1	-3.3	-2.8	-3.0	-2.5	-2.3
8H	-2.6	-2.2	-2.3	-1.9	-1.6	-2.8	-2.3	-2.5	-2.0	-1.8
12H	-2.0	-1.6	-1.7	-1.3	-1.0	-2.2	-1.7	-1.8	-1.4	-1.1
4H 2H	-4.6	-4.1	-4.4	-3.9	-3.7	-4.9	-4.3	-4.6	-4.1	-3.9
3H	-4.2	-3.7	-3.9	-3.5	-3.2	-4.4	-3.9	-4.1	-3.7	-3.4
4H	-3.7	-3.3	-3.4	-3.0	-2.7	-3.9	-3.5	-3.6	-3.2	-2.9
6H	-2.8	-2.5	-2.5	-2.1	-1.8	-3.0	-2.7	-2.7	-2.3	-2.0
8H	-2.3	-1.9	-1.9	-1.5	-1.2	-2.4	-2.0	-2.0	-1.7	-1.3
12H	-1.4	-1.1	-1.0	-0.7	-0.3	-1.5	-1.2	-1.1	-0.8	-0.4
8H 4H	-3.8	-3.5	-3.4	-3.1	-2.7	-4.0	-3.6	-3.6	-3.3	-2.9
6H	-2.8	-2.5	-2.4	-2.1	-1.7	-3.0	-2.7	-2.6	-2.3	-1.9
8H	-2.1	-1.8	-1.7	-1.4	-1.0	-2.2	-2.0	-1.8	-1.5	-1.1
12H	-1.0	-0.8	-0.5	-0.3	0.2	-1.1	-0.9	-0.6	-0.4	0.1
12H 4H	-3.8	-3.5	-3.4	-3.1	-2.7	-4.0	-3.7	-3.6	-3.3	-2.9
6H	-2.9	-2.6	-2.4	-2.2	-1.7	-3.0	-2.8	-2.6	-2.4	-1.9
8H	-2.1	-1.9	-1.6	-1.4	-0.9	-2.2	-2.0	-1.7	-1.5	-1.1
Variations with the observer position at spacings:										
S = 1.0H	+ 1.5 / - 1.2					+ 1.3 / - 1.1				
1.5H	+ 2.7 / - 1.6					+ 2.6 / - 1.2				
2.0H	+ 1.9 / - 1.1					+ 1.8 / - 1.0				

CIE Pub.117 Corrected 1252 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.8)

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-251184	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	88	96	91	88	95	91	88	84
1.00	101	96	93	100	95	92	98	95	92	88
1.25	105	100	97	103	99	96	101	98	95	91
1.50	107	103	100	106	102	99	103	100	98	94
2.00	109	105	102	108	104	102	105	102	100	95
2.50	111	107	104	109	106	103	106	103	101	96
3.00	112	109	106	110	108	105	107	105	103	97
4.00	114	112	109	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	

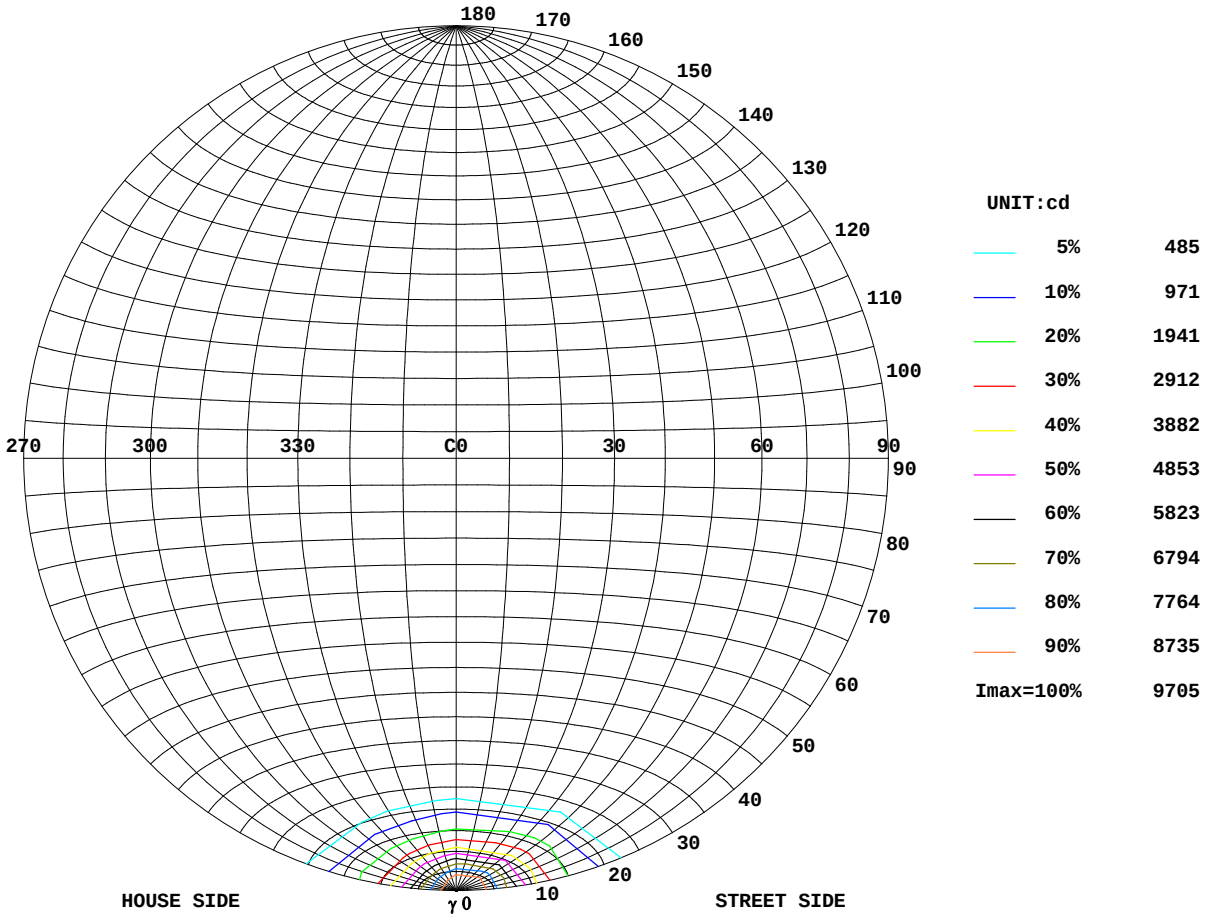
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月10日

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-251184	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



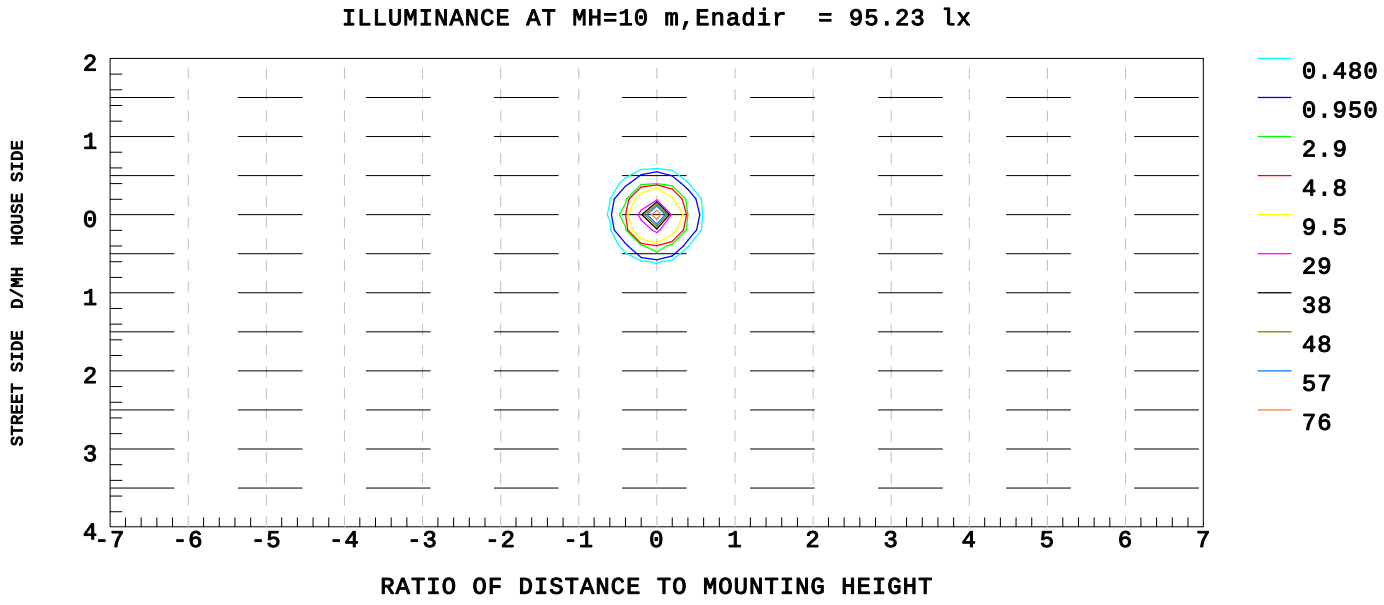
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月10日

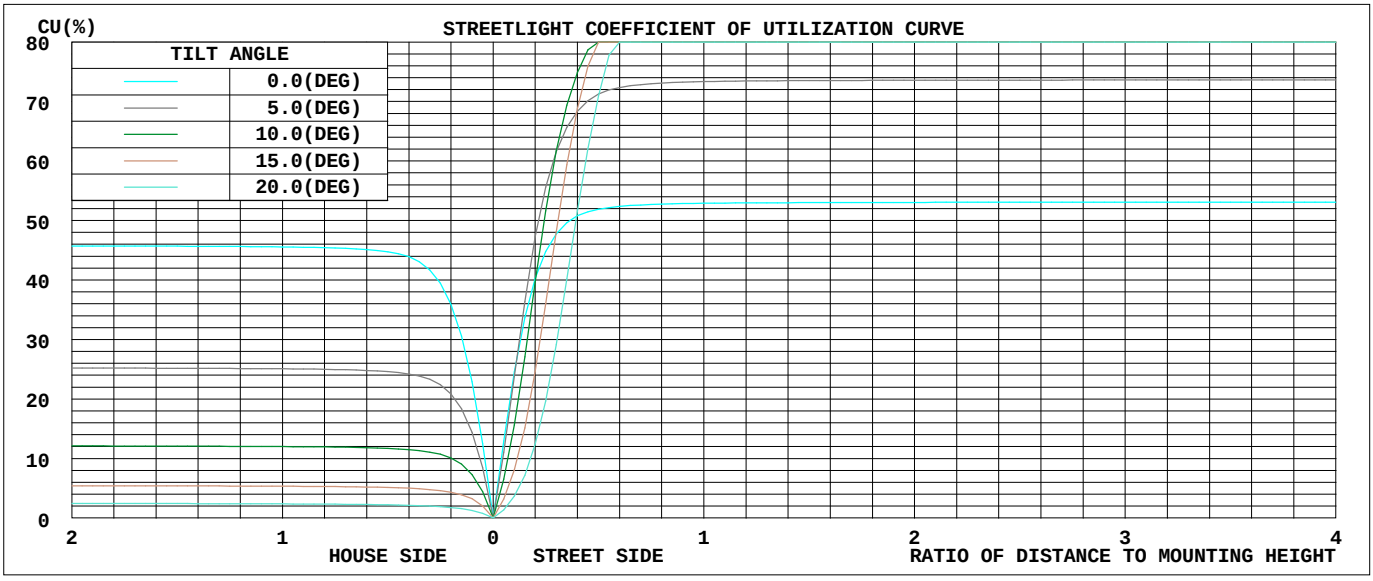
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.300 m
Remarks:

ISOLUX DIAGRAM

Report number:

MANUFACTURER: Havit Commercial		
Address:		
NAME: HCP-251184	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:





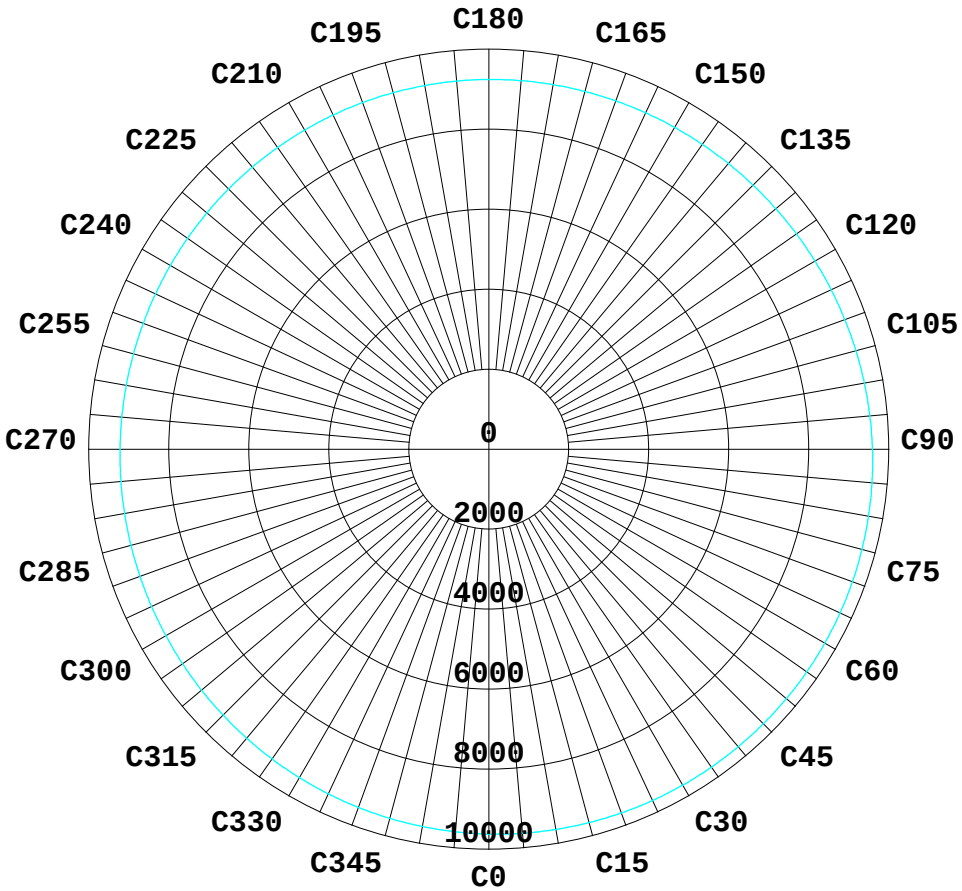
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月10日

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-251184	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-251184	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

UNIT: cd

γ (DEG) \ C(DEG)	0	45	90	135	180	225	270	315
0.0	9523	9558	9506	9460	9523	9558	9506	9460
5.0	8197	8536	8073	7245	6759	6572	6712	7500
10.0	4539	4776	4382	3588	3269	3087	3242	3856
15.0	2063	2131	1943	1545	1402	1173	1356	1771
20.0	832	896	828	665	558	516	498	688
25.0	270	271	269	215	220	178	154	226
30.0	100	94.5	97.8	70.2	63.2	70.6	62.4	87.7
35.0	50.8	44.9	47.8	32.1	29.9	35.8	28.7	44.1
40.0	28.1	22.1	25.1	15.2	14.7	19.6	13.9	24.1
45.0	15.2	10.4	13.9	7.64	7.37	11.6	6.82	13.6
50.0	9.30	5.02	8.68	3.99	3.72	7.30	3.30	8.33
55.0	6.20	2.54	5.99	1.99	1.92	5.16	1.79	5.71
60.0	4.40	1.24	4.34	1.10	1.24	3.78	0.90	4.20
65.0	3.65	0.83	3.51	0.83	0.96	3.44	0.76	3.51
70.0	3.16	0.62	3.10	0.62	0.69	2.96	0.55	2.82
75.0	2.61	0.55	2.75	0.48	0.69	2.61	0.55	2.68
80.0	2.48	0.28	2.48	0.41	0.55	2.41	0.41	2.41
85.0	2.20	0.41	2.27	0.41	0.34	2.20	0.28	2.20
90.0	2.06	0.34	1.99	0.34	0.55	1.92	0.21	1.92
95.0	1.86	0.34	1.92	0.28	0.48	1.86	0.34	1.92
100.0	1.79	0.28	1.72	0.07	0.48	1.79	0.34	1.72
105.0	1.58	0.34	1.65	0.28	0.55	1.58	0.21	1.58
110.0	1.65	0.34	1.51	0.28	0.62	1.58	0.21	1.51
115.0	1.51	0.41	1.30	0.41	0.55	1.30	0.41	1.30
120.0	1.51	0.41	1.44	0.41	0.69	1.37	0.48	1.44
125.0	1.17	0.41	1.24	0.48	0.69	1.30	0.48	1.37
130.0	1.24	0.55	1.37	0.48	0.83	1.37	0.62	1.37
135.0	1.10	0.62	1.37	0.55	1.03	1.44	0.69	1.37
140.0	1.24	0.76	1.44	0.90	1.44	1.86	1.17	1.72
145.0	1.86	1.24	1.79	1.51	2.20	2.75	2.13	2.34
150.0	2.68	1.99	2.54	2.68	3.78	4.13	3.65	3.78
155.0	4.13	3.78	4.06	4.40	5.58	6.26	5.51	5.58
160.0	5.64	5.37	5.51	6.20	7.16	7.78	7.02	7.44
165.0	6.95	6.95	6.88	7.23	7.92	8.33	7.78	8.33
170.0	7.50	7.30	7.50	7.37	7.99	7.99	7.92	8.26
175.0	7.50	6.82	7.37	6.95	7.71	7.44	7.50	7.71
180.0	7.37	6.68	7.50	6.95	7.50	7.09	7.30	7.09

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: