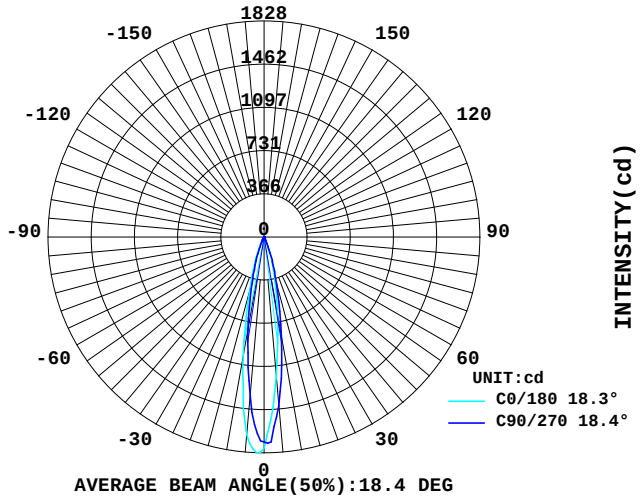
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

MANUFACTURER: Havit Commercial		
Address:		
NAME: HCP-251043	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

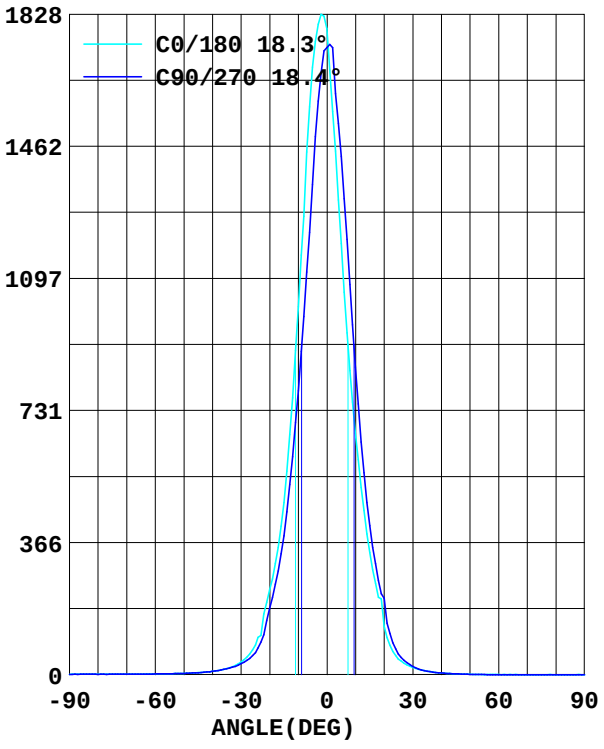
DATA OF LAMP		Imax(cd)	1828	S/MH(C0/180)	0.37
MODEL		EFFICIENCY(%)	100.0	S/MH(C90/270)	0.32
NOMINAL POWER(W)	5	TOTAL FLUX(lm)	282.04	Voltage(V)	23.78
RATED VOLTAGE(V)	24	EFFICIENCY(lm/W)	55.4	Current(A)	0.214
NOMINAL FLUX(lm)	282.0	η up(%)	0.8	Power(W)	5.090
LAMPS QUANTITY	1	η down(%)	99.2	Power Factor(PF)	1.000
TEST VOLTAGE(V)	23.8	Effictive Flux(lm)	234.2	EEI	0.204

LUMINOUS INTENSITY DISTRIBUTION



AVERAGE BEAM ANGLE(50%):18.4 DEG

LUMINOUS INTENSITY DISTRIBUTION



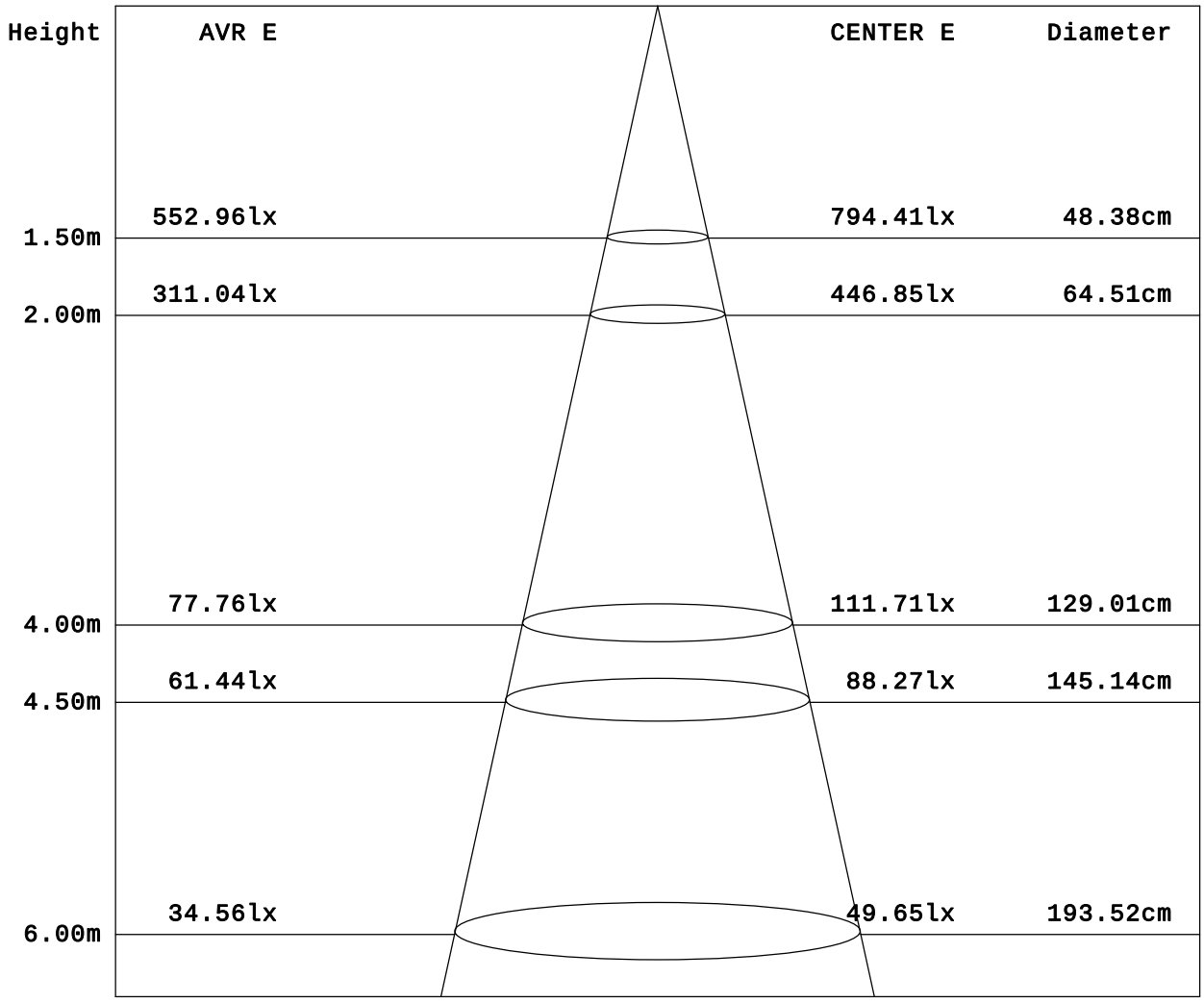
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月08日

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-251043	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



Angle:18.3deg

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-251043	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	zone	total
5.0	1681	1490	1356	1174	1193	1274	1434	1670	0- 5	37.50	37.50
10.0	1019	870.8	785.1	670.5	668.0	749.0	850.7	1055	5- 10	77.59	115.1
15.0	476.4	411.7	384.4	333.6	338.1	375.1	412.0	513.3	10- 15	69.95	185.0
20.0	234.0	203.9	183.2	128.6	133.5	167.1	210.9	249.7	15- 20	46.59	231.6
25.0	82.32	61.51	60.89	43.53	43.40	53.59	56.90	86.87	20- 25	22.77	254.4
30.0	35.27	25.90	30.24	21.01	20.32	25.00	22.94	35.75	25- 30	10.35	264.7
35.0	16.60	11.57	15.98	10.05	9.575	13.57	9.369	16.53	30- 35	5.529	270.3
40.0	8.955	5.442	9.093	4.753	4.546	8.129	4.615	9.369	35- 40	3.164	273.4
45.0	5.442	2.480	5.166	1.928	2.204	4.753	2.204	5.580	40- 45	1.894	275.3
50.0	3.375	0.964	3.306	0.620	1.033	3.237	0.758	3.582	45- 50	1.150	276.5
55.0	2.480	0.207	2.548	0.207	0	2.342	0.069	2.480	50- 55	0.721	277.2
60.0	1.997	0	1.860	0	0.207	1.791	0	1.928	55- 60	0.524	277.7
65.0	1.653	0	1.446	0	0	1.377	0	1.446	60- 65	0.420	278.1
70.0	1.446	0	1.240	0	0	1.308	0	1.446	65- 70	0.361	278.5
75.0	1.102	0	1.171	0	0	1.171	0	1.033	70- 75	0.325	278.8
80.0	0.896	0	0.758	0	0	1.102	0	1.033	75- 80	0.291	279.1
85.0	1.033	0	0.896	0	0	0.827	0	0.896	80- 85	0.262	279.4
90.0	0.827	0	0.758	0	0	0.689	0	0.758	85- 90	0.231	279.6
95.0	0.827	0	0.758	0	0	0.758	0	0.758	90- 95	0.202	279.8
100.0	0.620	0	0.620	0	0	0.551	0	0.689	95-100	0.183	280.0
105.0	0.551	0	0.620	0	0	0.620	0	0.620	100-105	0.151	280.1
110.0	0.413	0	0.482	0	0	0.551	0	0.482	105-110	0.146	280.3
115.0	0.482	0	0.413	0	0.069	0.276	0	0.482	110-115	0.124	280.4
120.0	0.551	0	0.482	0	0.069	0.413	0	0.482	115-120	0.106	280.5
125.0	0.482	0	0.413	0	0	0.207	0	0.413	120-125	0.093	280.6
130.0	0.344	0	0.344	0	0.069	0.344	0	0.413	125-130	0.077	280.7
135.0	0.344	0	0.276	0	0	0.138	0	0.344	130-135	0.070	280.8
140.0	0.207	0	0.276	0	0.276	0.344	0	0.344	135-140	0.072	280.8
145.0	0.482	0	0.482	0.069	0.276	0.482	0.138	0.482	140-145	0.082	280.9
150.0	0.620	0.276	0.620	0.138	0.620	0.896	0.413	0.689	145-150	0.127	281.0
155.0	0.896	0.620	0.964	0.827	1.171	1.102	0.758	1.102	150-155	0.181	281.2
160.0	1.171	0.758	1.033	0.964	1.584	1.377	1.102	1.377	155-160	0.225	281.5
165.0	1.515	1.240	1.240	1.240	1.791	1.653	1.308	1.584	160-165	0.221	281.7
170.0	1.653	1.377	1.584	1.240	1.860	1.515	1.515	1.653	165-170	0.176	281.8
175.0	1.722	1.033	1.584	1.240	1.722	1.584	1.377	1.377	170-175	0.109	282.0
180.0	1.653	1.377	1.377	1.033	1.860	1.446	1.446	1.446	175-180	0.035	282.0
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:

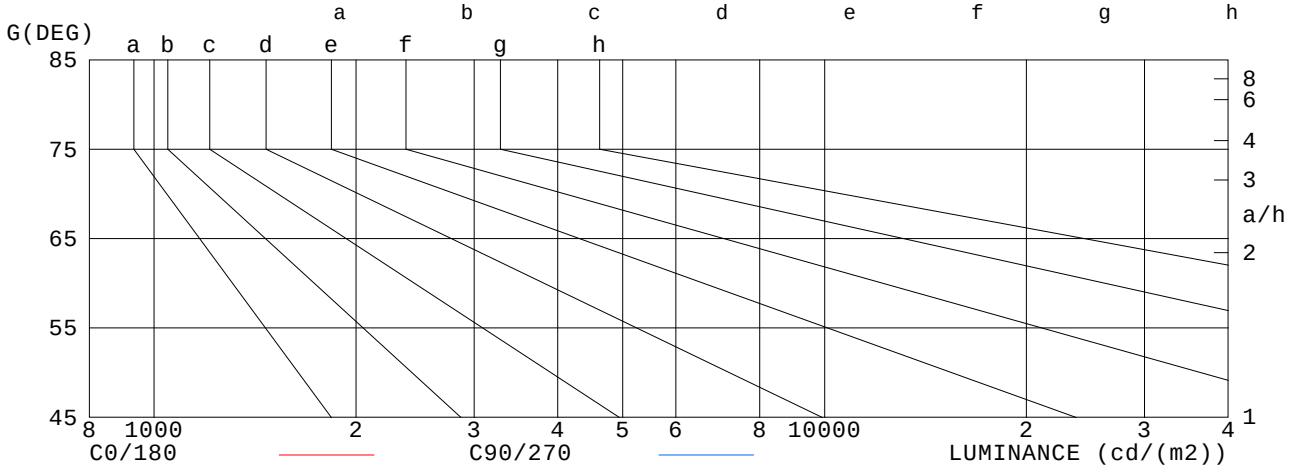
LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER: Havit Commercial		
Address:		
NAME: HCP-251043	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	103
80	52	44
75	43	45
70	42	36
65	39	34
60	40	37
55	43	44
50	53	51
45	77	73

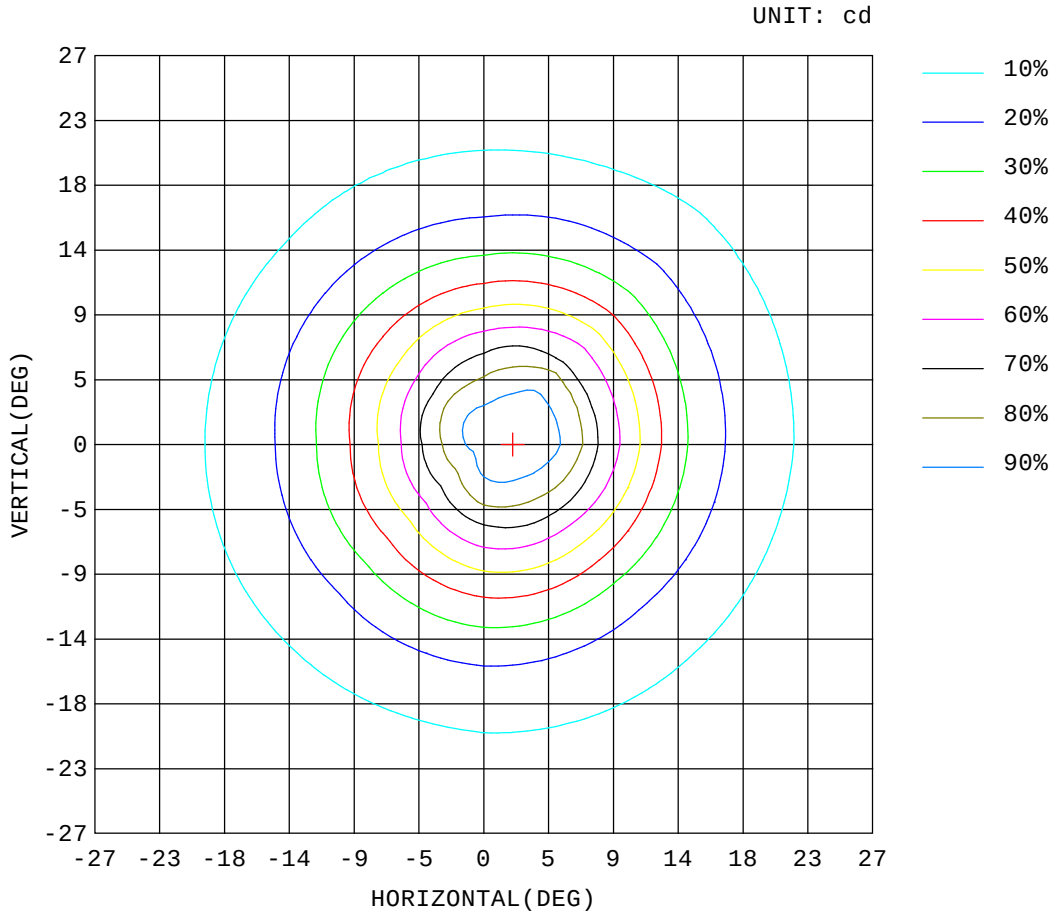
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月08日

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-251043	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



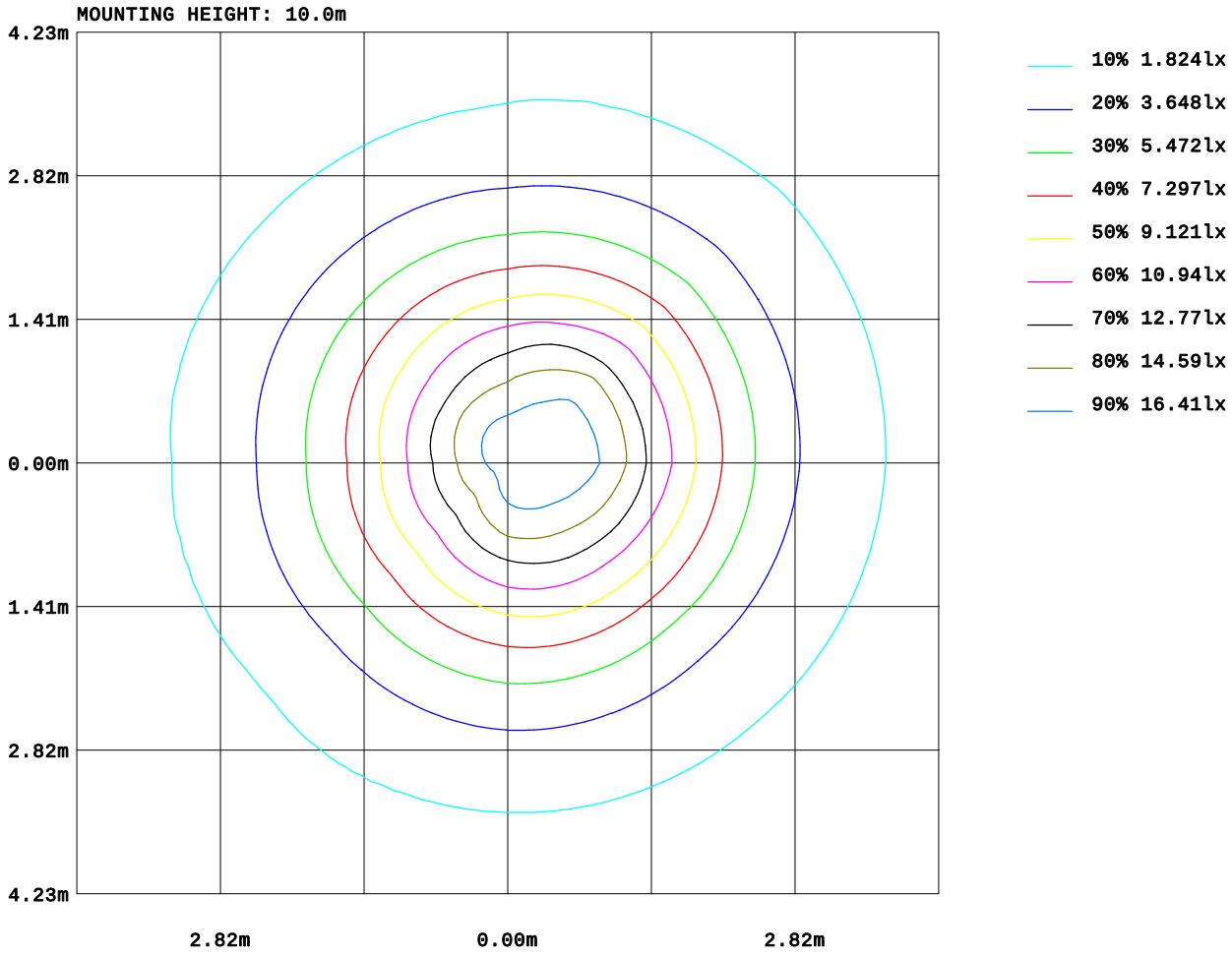
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月08日

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-251043	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-251043	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	0.03	0.04	0.05	0.06	0.08	0.10	0.12	0.13	0.14	0.15	0.15	0.14	0.13	0.11	0.09	0.07	0.05	0.04	1.68	0.00
24	0.04	0.05	0.07	0.09	0.12	0.16	0.20	0.25	0.27	0.29	0.28	0.25	0.21	0.17	0.13	0.10	0.07	0.05	2.82	0.00
21	0.05	0.07	0.10	0.13	0.19	0.28	0.39	0.50	0.56	0.59	0.57	0.51	0.40	0.28	0.21	0.15	0.10	0.07	5.15	2.13
18	0.06	0.09	0.13	0.20	0.32	0.51	0.67	0.80	0.89	0.92	0.90	0.81	0.69	0.53	0.32	0.21	0.13	0.09	8.27	6.49
15	0.07	0.11	0.17	0.30	0.54	0.76	1.00	1.22	1.38	1.45	1.40	1.23	1.00	0.77	0.53	0.29	0.18	0.11	12.5	11.0
12	0.08	0.13	0.23	0.47	0.73	1.04	1.42	1.81	2.11	2.24	2.16	1.85	1.43	1.00	0.69	0.42	0.23	0.14	18.2	17.0
9	0.09	0.16	0.31	0.60	0.91	1.35	1.88	2.46	2.96	3.22	3.09	2.62	1.90	1.26	0.84	0.55	0.27	0.16	24.6	23.5
	0.10	0.18	0.39	0.68	1.06	1.60	2.26	3.05	3.81	4.20	4.10	3.23	2.31	1.49	0.95	0.61	0.33	0.18	30.5	29.5
	0.10	0.19	0.43	0.72	1.13	1.71	2.45	3.42	4.41	4.82	4.57	3.63	2.55	1.62	1.00	0.65	0.36	0.19	33.9	33.0
	0.10	0.19	0.43	0.71	1.11	1.67	2.38	3.30	4.18	4.72	4.39	3.50	2.47	1.58	0.98	0.63	0.35	0.19	32.9	31.8
	0.09	0.17	0.38	0.65	1.00	1.51	2.11	2.80	3.57	3.92	3.62	2.91	2.09	1.37	0.88	0.58	0.31	0.17	28.1	27.1
-9	0.09	0.14	0.29	0.58	0.84	1.23	1.70	2.24	2.72	2.91	2.70	2.20	1.61	1.09	0.74	0.49	0.25	0.14	22.0	20.8
-12	0.07	0.12	0.21	0.44	0.66	0.93	1.28	1.65	1.94	2.03	1.88	1.54	1.15	0.83	0.59	0.36	0.20	0.12	16.0	14.7
-15	0.06	0.09	0.15	0.26	0.50	0.68	0.90	1.12	1.29	1.33	1.23	1.03	0.81	0.62	0.42	0.24	0.15	0.09	10.9	9.57
-18	0.05	0.07	0.11	0.17	0.28	0.47	0.63	0.74	0.83	0.85	0.80	0.69	0.57	0.41	0.25	0.16	0.11	0.07	7.25	5.37
-21	0.04	0.06	0.08	0.11	0.17	0.25	0.36	0.47	0.53	0.54	0.51	0.43	0.33	0.23	0.16	0.11	0.08	0.05	4.49	1.40
-24	0.03	0.04	0.06	0.08	0.11	0.15	0.19	0.24	0.27	0.28	0.26	0.22	0.18	0.14	0.10	0.07	0.05	0.04	2.52	0.00
-27	0.02	0.03	0.04	0.06	0.08	0.10	0.12	0.14	0.15	0.16	0.15	0.13	0.11	0.09	0.07	0.05	0.04	0.03	1.56	0.00
Φ t	1.18	1.93	3.63	6.31	9.84	14.5	20.1	26.3	32.0	34.6	32.8	26.9	19.9	13.6	8.97	5.72	3.25	1.91	282	
Φ a	0.00	0.00	0.72	4.37	8.22	13.1	18.8	25.1	30.9	33.4	31.6	25.7	18.6	12.1	7.30	3.44	0.10	0.00		234

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

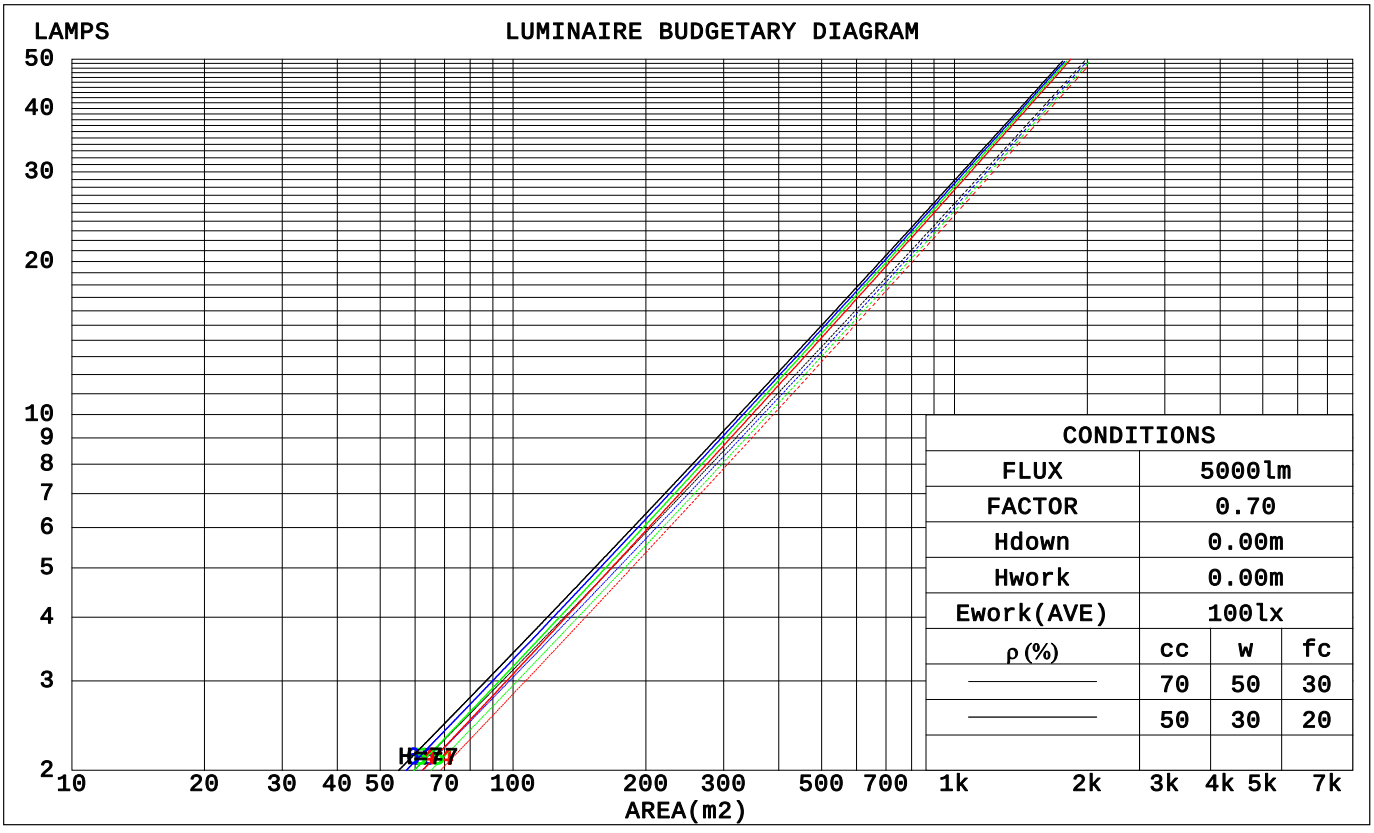
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.300 m
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER: Havit Commercial		
Address:		
NAME: HCP-251043	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	1.09	1.10	1.09	1.07	1.06	1.05	1.04	1.03	1.02	1.01	.99	.98	.98	.96
2.0	1.08	1.05	1.02	1.06	1.03	1.01	1.03	1.00	.99	.00	.98	.96	.97	.95	.94	.93
3.0	1.03	.00	.97	1.02	.99	.96	.99	.97	.94	.97	.95	.93	.95	.93	.91	.90
4.0	.99	.95	.92	.98	.95	.92	.96	.93	.91	.94	.92	.90	.92	.90	.89	.87
5.0	.96	.92	.89	.95	.91	.88	.93	.90	.88	.92	.89	.87	.90	.88	.86	.85
6.0	.93	.89	.86	.92	.88	.86	.91	.87	.85	.89	.87	.84	.88	.86	.84	.83
7.0	.90	.86	.83	.89	.86	.83	.88	.85	.83	.87	.84	.82	.86	.84	.82	.81
8.0	.88	.84	.81	.87	.83	.81	.86	.83	.80	.85	.82	.80	.84	.82	.80	.79
9.0	.85	.81	.79	.85	.81	.79	.84	.81	.78	.83	.80	.78	.82	.80	.78	.77
10.0	.83	.79	.77	.83	.79	.77	.82	.79	.76	.81	.78	.76	.81	.78	.76	.75



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-251043	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	.137	.078	.025	.130	.074	.024	.117	.067	.021	.105	.061	.019	.094	.055	.018	
2.0	.126	.069	.021	.120	.066	.020	.109	.061	.019	.100	.056	.017	.091	.051	.016	
3.0	.116	.062	.019	.112	.060	.018	.103	.056	.017	.095	.052	.016	.087	.048	.015	
4.0	.109	.056	.017	.105	.055	.016	.097	.051	.015	.090	.048	.015	.084	.045	.014	
5.0	.102	.052	.015	.098	.051	.015	.092	.048	.014	.086	.045	.013	.080	.043	.013	
6.0	.096	.048	.014	.093	.047	.014	.087	.045	.013	.082	.043	.013	.077	.041	.012	
7.0	.091	.045	.013	.088	.044	.013	.083	.042	.012	.079	.040	.012	.075	.039	.011	
8.0	.086	.042	.012	.084	.041	.012	.080	.040	.011	.076	.038	.011	.072	.037	.011	
9.0	.082	.040	.011	.080	.039	.011	.077	.038	.011	.073	.037	.010	.070	.035	.010	
10.0	.079	.038	.010	.077	.037	.010	.074	.036	.010	.070	.035	.010	.067	.034	.010	

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	.175	.164	.155	.150	.141	.133	.102	.097	.092	.059	.056	.053	.019	.018	.017	
2.0	.157	.139	.125	.134	.120	.108	.092	.083	.075	.053	.048	.044	.017	.016	.014	
3.0	.141	.120	.103	.121	.103	.089	.083	.072	.062	.048	.042	.037	.015	.014	.012	
4.0	.129	.104	.086	.111	.090	.075	.076	.063	.053	.044	.037	.031	.014	.012	.010	
5.0	.118	.092	.073	.101	.080	.063	.070	.056	.045	.040	.033	.027	.013	.011	.009	
6.0	.109	.082	.063	.094	.071	.055	.065	.050	.039	.038	.029	.023	.012	.010	.008	
7.0	.101	.074	.055	.087	.064	.048	.060	.045	.034	.035	.026	.020	.011	.009	.007	
8.0	.095	.067	.048	.081	.058	.042	.056	.041	.030	.033	.024	.018	.011	.008	.006	
9.0	.089	.061	.043	.077	.053	.037	.053	.037	.026	.031	.022	.016	.010	.007	.005	
10.0	.084	.057	.038	.072	.049	.033	.050	.035	.024	.029	.020	.014	.009	.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-251043	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	-7.2	-6.6	-7.0	-6.4	-6.2	-7.4	-6.8	-7.2	-6.7	-6.5
3H	-6.5	-5.9	-6.2	-5.7	-5.5	-6.9	-6.3	-6.7	-6.1	-5.9
4H	-5.9	-5.3	-5.6	-5.1	-4.9	-6.3	-5.7	-6.0	-5.5	-5.3
6H	-4.9	-4.4	-4.7	-4.2	-3.9	-5.6	-5.0	-5.3	-4.8	-4.5
8H	-4.2	-3.7	-3.9	-3.4	-3.2	-4.9	-4.4	-4.6	-4.1	-3.9
12H	-3.3	-2.8	-3.0	-2.6	-2.3	-4.1	-3.6	-3.8	-3.3	-3.0
4H 2H	-7.4	-6.8	-7.1	-6.6	-6.4	-7.6	-7.1	-7.4	-6.9	-6.6
3H	-6.6	-6.1	-6.3	-5.9	-5.6	-7.1	-6.6	-6.7	-6.3	-6.0
4H	-5.8	-5.4	-5.5	-5.1	-4.8	-6.3	-5.9	-6.0	-5.6	-5.2
6H	-4.7	-4.3	-4.3	-3.9	-3.6	-5.4	-5.0	-5.0	-4.6	-4.3
8H	-3.7	-3.3	-3.3	-3.0	-2.6	-4.5	-4.1	-4.1	-3.8	-3.4
12H	-2.6	-2.2	-2.1	-1.8	-1.4	-3.4	-3.0	-3.0	-2.7	-2.3
8H 4H	-5.9	-5.6	-5.6	-5.2	-4.8	-6.4	-6.0	-6.0	-5.7	-5.3
6H	-4.7	-4.4	-4.3	-4.0	-3.5	-5.4	-5.1	-5.0	-4.7	-4.3
8H	-3.6	-3.3	-3.1	-2.9	-2.4	-4.4	-4.1	-3.9	-3.7	-3.2
12H	-2.1	-1.9	-1.7	-1.4	-1.0	-3.0	-2.8	-2.5	-2.3	-1.8
12H 4H	-6.0	-5.6	-5.6	-5.3	-4.9	-6.4	-6.1	-6.0	-5.7	-5.3
6H	-4.7	-4.5	-4.3	-4.0	-3.6	-5.4	-5.2	-5.0	-4.7	-4.3
8H	-3.6	-3.4	-3.1	-2.9	-2.4	-4.4	-4.2	-3.9	-3.7	-3.2
Variations with the observer position at spacings:										
S = 1.0H	+ 1.4 / - 1.2					+ 1.3 / - 0.9				
1.5H	+ 2.3 / - 1.9					+ 2.7 / - 2.0				
2.0H	+ 2.0 / - 1.5					+ 1.9 / - 1.4				

CIE Pub.117 Corrected 282.0 lm Total Lamp Luminous Flux.(8log(F/F0) = -4.4)

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-251043	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	80	89	84	80	88	83	80	77
0.80	97	91	88	96	91	88	95	90	87	84
1.00	101	95	92	100	95	92	98	95	91	87
1.25	104	99	96	103	99	96	101	98	95	91
1.50	107	102	99	105	102	99	103	100	98	93
2.00	109	105	102	108	104	101	105	102	100	94
2.50	111	107	104	109	106	103	106	103	101	95
3.00	112	109	106	110	107	105	107	105	103	96
4.00	114	111	109	112	110	108	108	106	105	98
5.00	115	113	111	113	111	110	109	108	106	99
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended					SHRNOM = 1.25	

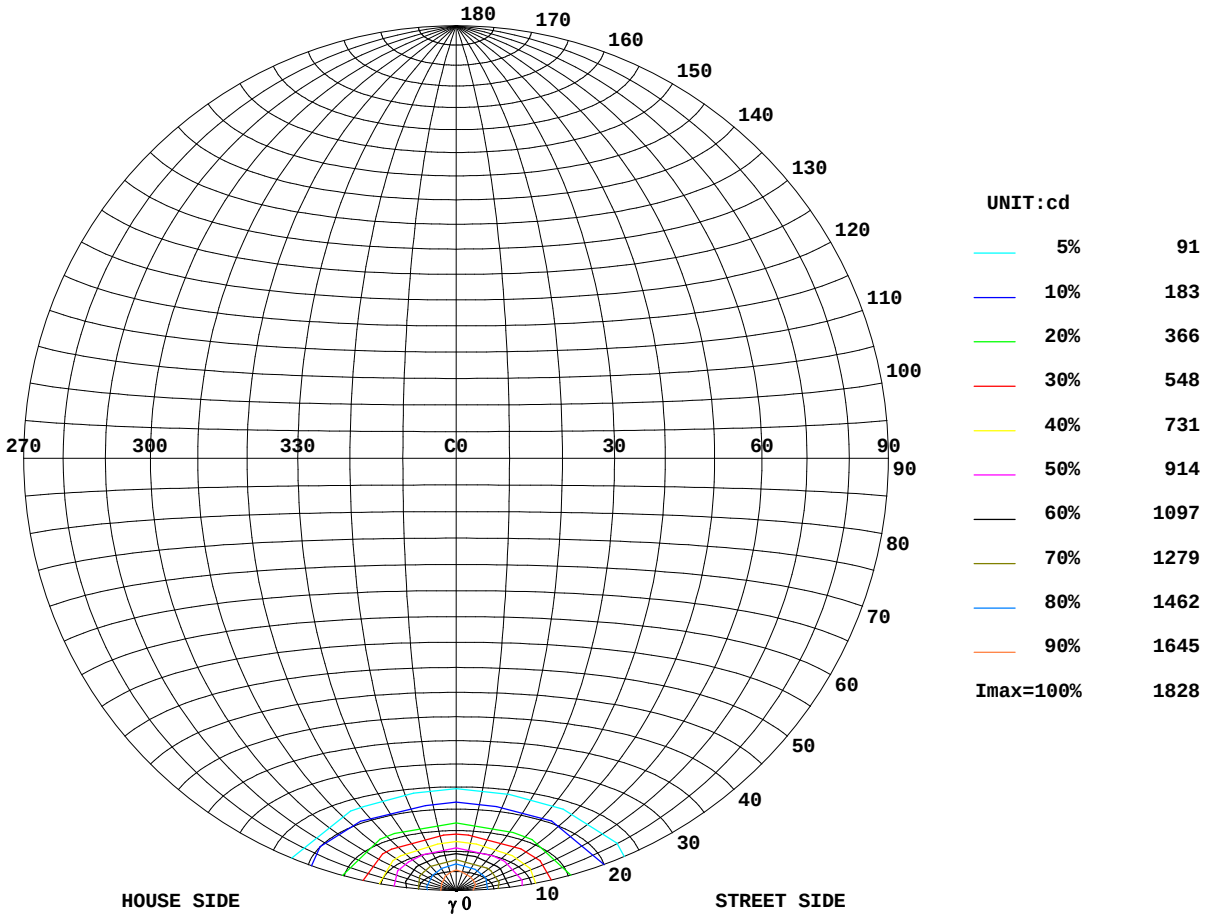
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月08日

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-251043	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



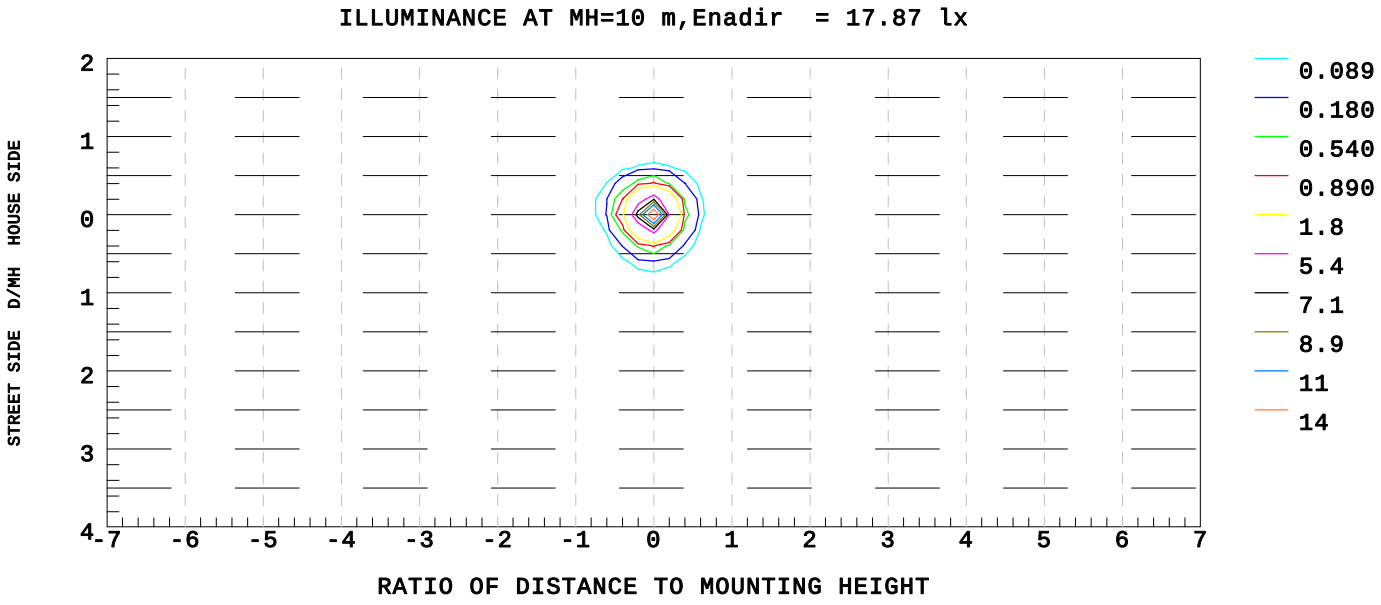
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月08日

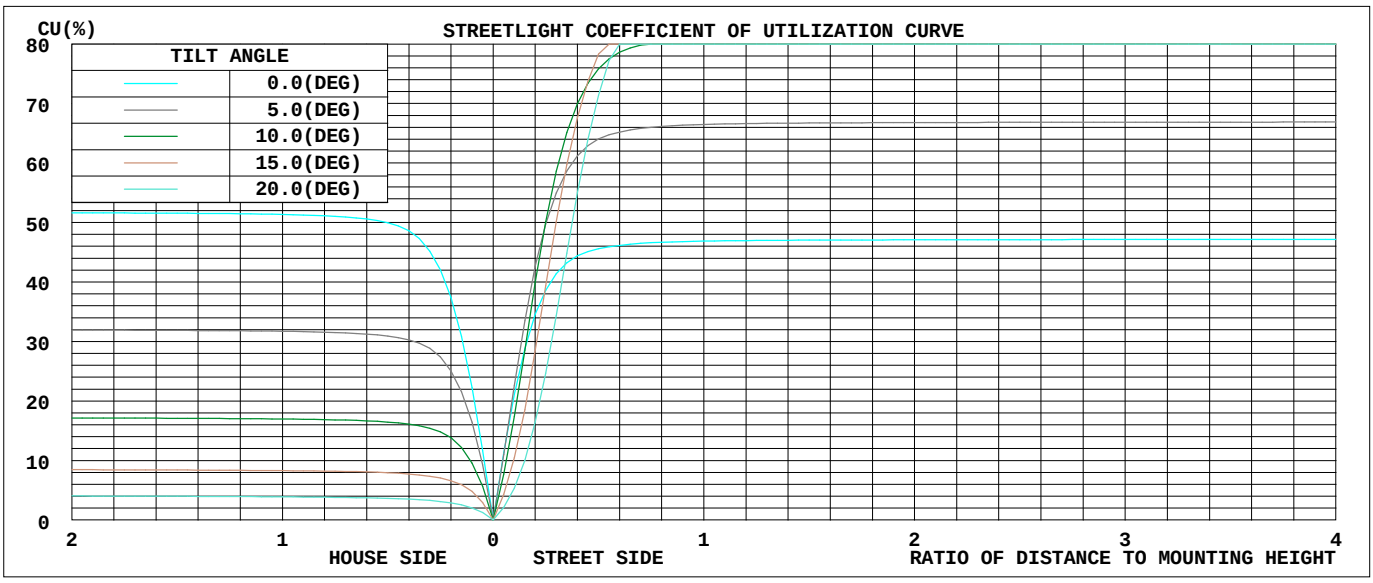
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.300 m
Remarks:

ISOLUX DIAGRAM

Report number:

MANUFACTURER: Havit Commercial		
Address:		
NAME: HCP-251043	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:





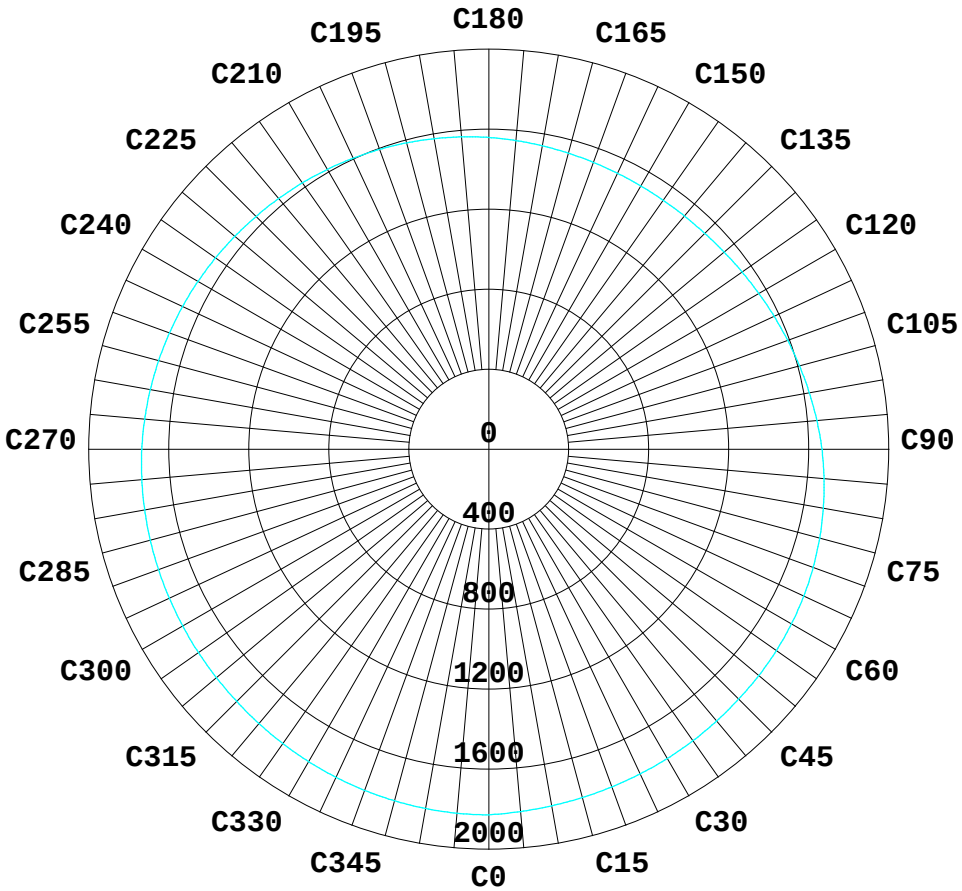
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月08日

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-251043	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-251043	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

UNIT: cd

γ (DEG) \ C(DEG)	0	45	90	135	180	225	270	315
0.0	1787	1769	1735	1757	1787	1769	1735	1757
5.0	1681	1490	1356	1174	1193	1274	1434	1670
10.0	1019	871	785	671	668	749	851	1055
15.0	476	412	384	334	338	375	412	513
20.0	234	204	183	129	134	167	211	250
25.0	82.3	61.5	60.8	43.5	43.4	53.5	56.9	86.8
30.0	35.2	25.9	30.2	21.0	20.3	25.0	22.9	35.7
35.0	16.6	11.5	15.9	10.0	9.57	13.5	9.36	16.5
40.0	8.95	5.44	9.09	4.75	4.54	8.12	4.61	9.36
45.0	5.44	2.48	5.16	1.92	2.20	4.75	2.20	5.58
50.0	3.37	0.96	3.30	0.62	1.03	3.23	0.76	3.58
55.0	2.48	0.21	2.54	0.21	0.00	2.34	0.07	2.48
60.0	1.99	0.00	1.86	0.00	0.21	1.79	0.00	1.92
65.0	1.65	0.00	1.44	0.00	0.00	1.37	0.00	1.44
70.0	1.44	0.00	1.24	0.00	0.00	1.30	0.00	1.44
75.0	1.10	0.00	1.17	0.00	0.00	1.17	0.00	1.03
80.0	0.90	0.00	0.76	0.00	0.00	1.10	0.00	1.03
85.0	1.03	0.00	0.90	0.00	0.00	0.83	0.00	0.90
90.0	0.83	0.00	0.76	0.00	0.00	0.69	0.00	0.76
95.0	0.83	0.00	0.76	0.00	0.00	0.76	0.00	0.76
100.0	0.62	0.00	0.62	0.00	0.00	0.55	0.00	0.69
105.0	0.55	0.00	0.62	0.00	0.00	0.62	0.00	0.62
110.0	0.41	0.00	0.48	0.00	0.00	0.55	0.00	0.48
115.0	0.48	0.00	0.41	0.00	0.07	0.28	0.00	0.48
120.0	0.55	0.00	0.48	0.00	0.07	0.41	0.00	0.48
125.0	0.48	0.00	0.41	0.00	0.00	0.21	0.00	0.41
130.0	0.34	0.00	0.34	0.00	0.07	0.34	0.00	0.41
135.0	0.34	0.00	0.28	0.00	0.00	0.14	0.00	0.34
140.0	0.21	0.00	0.28	0.00	0.28	0.34	0.00	0.34
145.0	0.48	0.00	0.48	0.07	0.28	0.48	0.14	0.48
150.0	0.62	0.28	0.62	0.14	0.62	0.90	0.41	0.69
155.0	0.90	0.62	0.96	0.83	1.17	1.10	0.76	1.10
160.0	1.17	0.76	1.03	0.96	1.58	1.37	1.10	1.37
165.0	1.51	1.24	1.24	1.24	1.79	1.65	1.30	1.58
170.0	1.65	1.37	1.58	1.24	1.86	1.51	1.51	1.65
175.0	1.72	1.03	1.58	1.24	1.72	1.58	1.37	1.37
180.0	1.65	1.37	1.37	1.03	1.86	1.44	1.44	1.44

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: