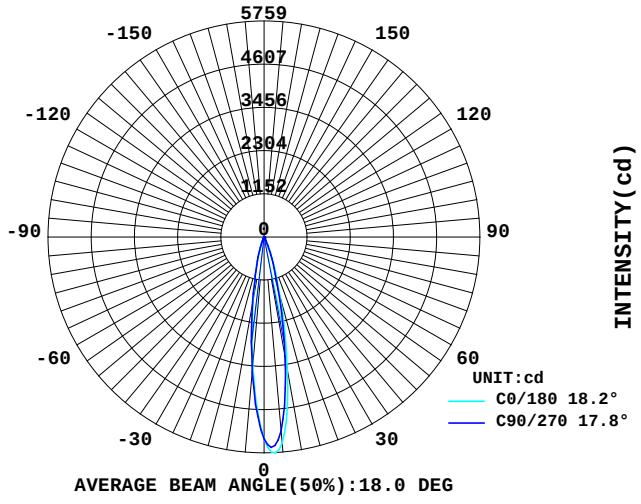
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

MANUFACTURER: Havit Commercial		
Address:		
NAME: HCP-251133	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

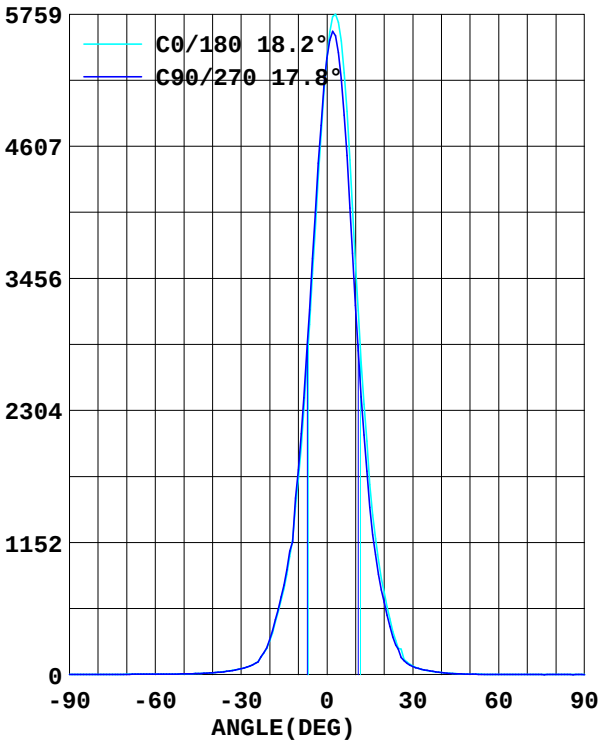
DATA OF LAMP		Imax(cd)	5895	S/MH(C0/180)	0.24
MODEL		EFFICIENCY(%)	100.0	S/MH(C90/270)	0.25
NOMINAL POWER(W)	14	TOTAL FLUX(lm)	824.47	Voltage(V)	23.42
RATED VOLTAGE(V)	23	EFFICIENCY(lm/W)	56.3	Current(A)	0.624
NOMINAL FLUX(lm)	824.5	η up(%)	0.9	Power(W)	14.64
LAMPS QUANTITY	1	η down(%)	99.1	Power Factor(PF)	1.000
TEST VOLTAGE(V)	23.4	Effictive Flux(lm)	678.7	EEI	0.261

LUMINOUS INTENSITY DISTRIBUTION



AVERAGE BEAM ANGLE(50%):18.0 DEG

LUMINOUS INTENSITY DISTRIBUTION



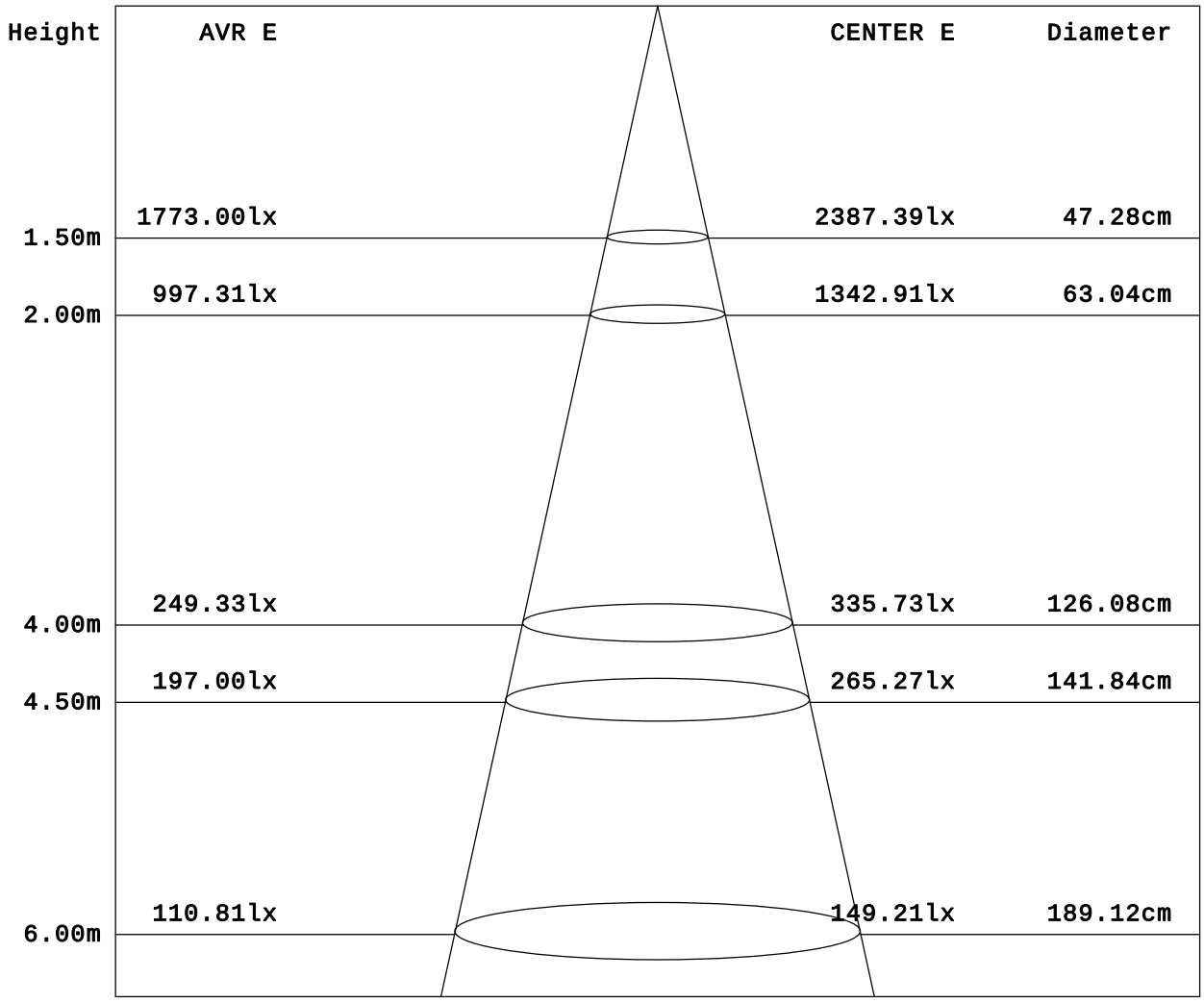
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月09日

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-251133	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



Angle:17.9deg

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月09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-251133	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	zone	total
5.0	3496	3230	3631	4289	5527	5782	5195	4387	0- 5	116.8	116.8
10.0	1707	1473	1785	2289	3583	3907	3221	2447	5- 10	243.3	360.2
15.0	750.4	678.1	780.6	1004	1657	1868	1458	1084	10- 15	206.8	567.0
20.0	292.3	238.2	302.4	410.3	717.6	804.3	631.5	491.4	15- 20	126.4	693.5
25.0	99.13	77.98	98.85	116.9	229.2	276.3	221.4	165.0	20- 25	61.37	754.9
30.0	51.66	40.09	50.84	50.49	75.91	95.20	71.09	67.23	25- 30	24.96	779.8
35.0	29.89	21.76	28.38	26.38	36.02	47.39	36.44	37.88	30- 35	13.44	793.3
40.0	16.60	10.60	15.43	13.29	17.98	24.93	17.91	21.56	35- 40	8.097	801.4
45.0	9.851	5.097	9.437	6.613	9.024	13.70	7.991	11.71	40- 45	4.714	806.1
50.0	6.613	2.686	6.131	3.306	4.271	8.680	3.926	7.646	45- 50	2.828	808.9
55.0	4.822	1.377	4.615	1.791	2.480	5.993	2.066	5.373	50- 55	1.922	810.8
60.0	3.788	0.964	3.513	1.102	1.584	4.202	1.240	3.995	55- 60	1.386	812.2
65.0	2.893	0.689	2.893	0.758	1.102	3.444	0.827	3.306	60- 65	1.103	813.3
70.0	2.824	0.482	2.686	0.551	0.827	3.031	0.551	2.824	65- 70	0.933	814.3
75.0	2.273	0.344	1.997	0.276	0.551	2.548	0.344	2.411	70- 75	0.803	815.1
80.0	1.791	0.207	2.066	0.276	0.482	2.273	0.276	2.135	75- 80	0.682	815.8
85.0	1.791	0.207	1.860	0.138	0.413	2.066	0.138	1.791	80- 85	0.603	816.4
90.0	1.584	0.138	1.653	0.069	0.344	1.860	0	1.446	85- 90	0.527	816.9
95.0	1.377	0.138	1.446	0.138	0.276	1.584	0.069	1.446	90- 95	0.469	817.3
100.0	1.240	0.138	1.377	0.069	0.207	1.515	0	1.377	95-100	0.443	817.8
105.0	1.377	0.207	1.308	0.138	0.344	1.377	0.138	1.308	100-105	0.406	818.2
110.0	1.033	0	1.240	0.138	0.413	1.308	0.207	1.240	105-110	0.380	818.6
115.0	1.240	0.207	1.102	0.138	0.276	1.171	0.138	1.171	110-115	0.352	818.9
120.0	1.171	0.138	1.102	0.207	0.413	1.240	0.207	0.964	115-120	0.327	819.3
125.0	1.102	0.276	1.102	0.138	0.482	1.171	0.207	1.102	120-125	0.309	819.6
130.0	1.102	0.344	0.896	0.276	0.551	1.033	0.344	1.033	125-130	0.278	819.8
135.0	1.102	0.344	0.689	0.344	0.413	0.827	0.344	1.171	130-135	0.271	820.1
140.0	1.033	0.689	1.240	0.551	0.758	1.171	0.482	1.308	135-140	0.296	820.4
145.0	1.791	1.240	1.515	0.827	1.171	1.308	0.896	1.653	140-145	0.352	820.8
150.0	2.548	2.204	2.273	1.515	1.791	2.066	1.653	2.480	145-150	0.486	821.3
155.0	3.651	3.375	3.237	2.548	2.893	2.962	2.342	3.513	150-155	0.644	821.9
160.0	4.271	4.340	3.857	3.651	3.788	3.995	3.788	4.684	155-160	0.757	822.7
165.0	4.822	4.615	4.340	4.408	5.028	5.097	4.546	4.891	160-165	0.732	823.4
170.0	5.097	4.477	4.822	4.477	5.442	5.442	4.684	5.166	165-170	0.579	824.0
175.0	5.028	4.271	4.753	4.271	5.442	5.304	4.615	4.615	170-175	0.350	824.3
180.0	5.235	4.340	4.960	3.995	5.373	4.891	4.684	4.546	175-180	0.114	824.4
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月09日

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

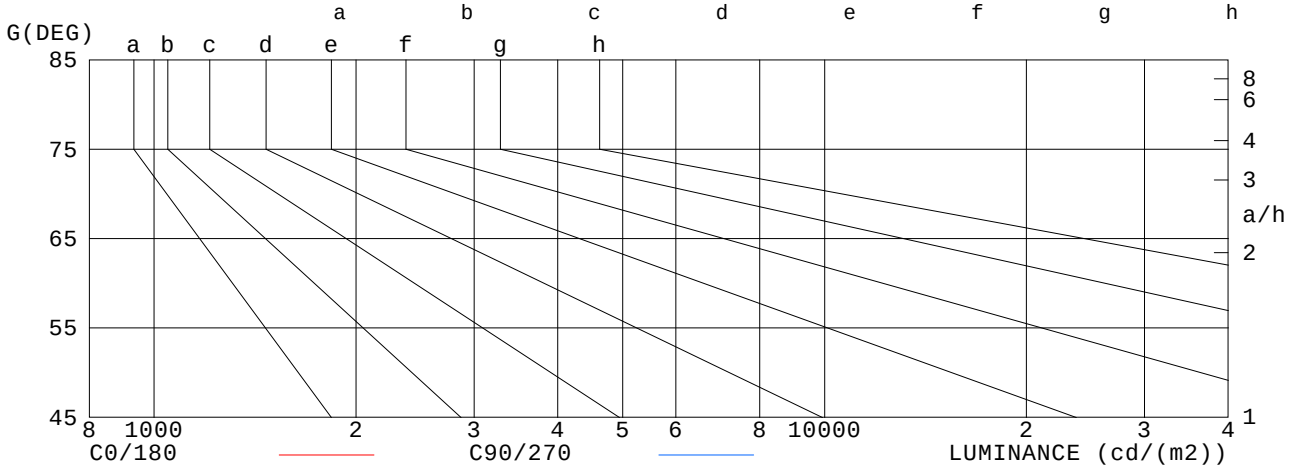
LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER: Havit Commercial		
Address:		
NAME: HCP-251133	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	206	213
80	103	119
75	88	77
70	83	79
65	68	68
60	76	70
55	84	80
50	103	95
45	139	133

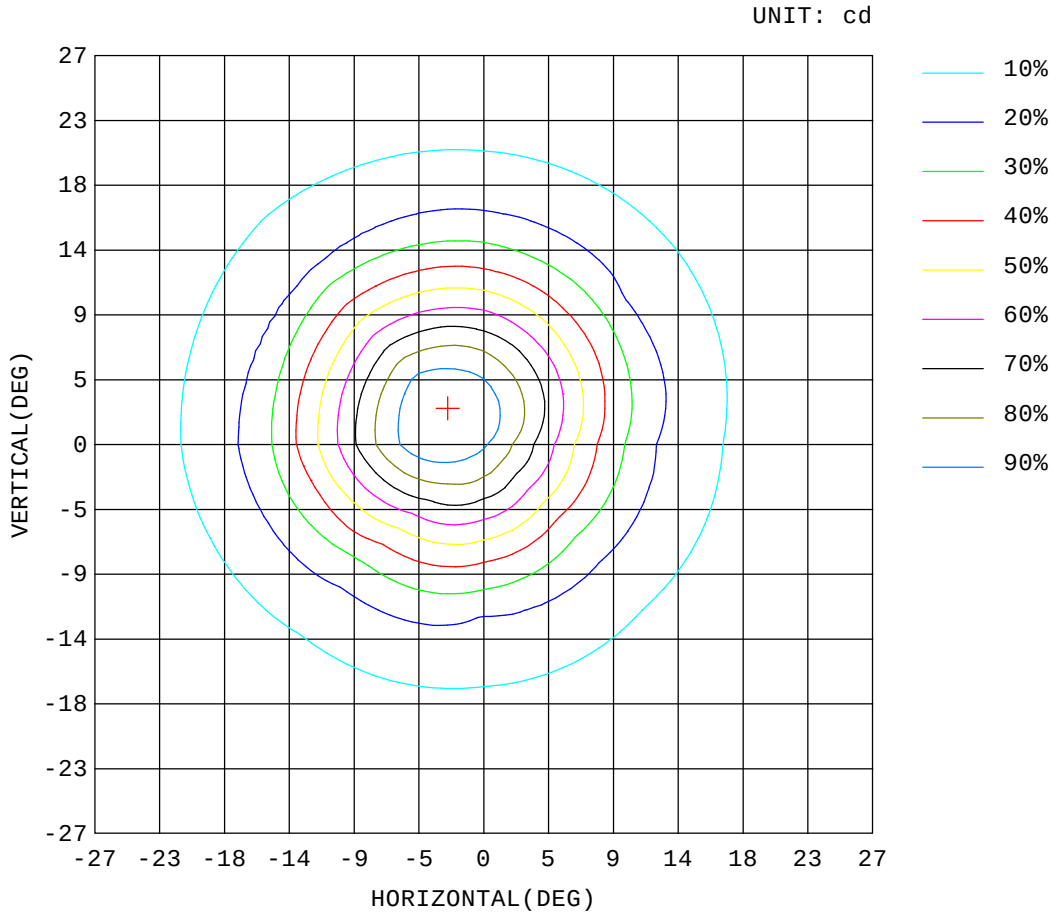
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月09日

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-251133	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



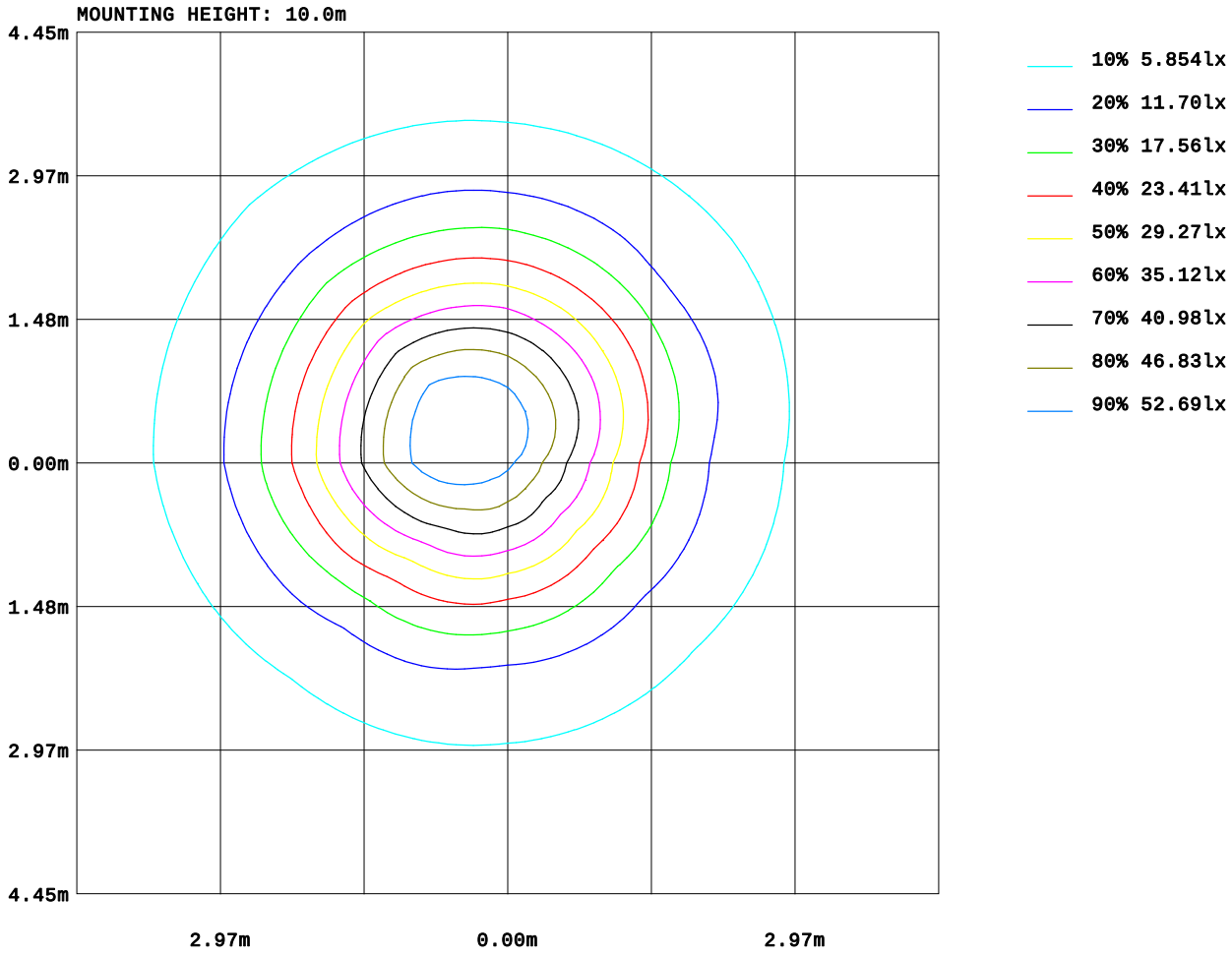
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月09日

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-251133	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月09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-251133	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	0.11	0.14	0.19	0.23	0.29	0.36	0.44	0.50	0.52	0.50	0.44	0.36	0.28	0.23	0.18	0.14	0.11	0.09	5.11	0.00
24	0.14	0.19	0.26	0.37	0.54	0.73	0.90	1.01	1.05	1.00	0.87	0.71	0.53	0.36	0.26	0.19	0.14	0.11	9.36	0.00
21	0.18	0.25	0.41	0.67	1.00	1.36	1.67	1.86	1.91	1.82	1.60	1.30	0.95	0.63	0.40	0.26	0.18	0.13	16.5	6.64
18	0.22	0.36	0.66	1.13	1.69	2.22	2.66	3.03	3.17	3.00	2.59	2.08	1.56	1.05	0.63	0.36	0.23	0.15	26.8	20.7
15	0.27	0.54	0.98	1.68	2.48	3.30	4.39	5.14	5.38	4.99	4.10	3.09	2.25	1.54	0.94	0.52	0.28	0.18	42.1	37.1
12	0.35	0.72	1.35	2.23	3.31	5.19	6.86	8.08	8.46	7.78	6.29	4.52	2.96	2.01	1.25	0.68	0.36	0.21	62.6	58.2
9	0.45	0.89	1.68	2.71	4.47	6.95	9.71	11.5	12.0	10.9	8.63	6.07	3.87	2.40	1.50	0.83	0.42	0.23	85.4	81.4
	0.52	1.03	1.91	3.16	5.38	8.38	11.8	14.5	14.8	13.3	10.4	7.16	4.49	2.66	1.64	0.90	0.45	0.24	103	99.5
	0.55	1.10	2.02	3.40	5.82	9.09	12.7	15.3	15.7	14.0	10.7	7.22	4.50	2.66	1.63	0.89	0.45	0.24	108	104
	0.52	1.04	1.92	3.23	5.42	8.36	11.5	13.7	14.0	12.3	9.48	6.46	4.07	2.47	1.53	0.83	0.42	0.22	97.8	94.0
	0.45	0.88	1.63	2.69	4.31	6.46	8.66	10.2	10.8	9.72	7.43	5.21	3.40	2.18	1.36	0.73	0.37	0.21	76.9	72.6
-9	0.36	0.68	1.27	2.08	3.12	4.41	5.81	7.02	7.42	6.75	5.32	3.73	2.59	1.76	1.09	0.59	0.30	0.18	54.5	49.9
-12	0.26	0.49	0.90	1.47	2.15	2.85	3.68	4.43	4.65	4.28	3.49	2.63	1.89	1.30	0.78	0.43	0.24	0.16	36.1	30.6
-15	0.19	0.33	0.57	0.93	1.39	1.90	2.37	2.71	2.78	2.61	2.29	1.82	1.32	0.84	0.52	0.29	0.19	0.13	23.2	16.5
-18	0.14	0.22	0.33	0.54	0.82	1.17	1.48	1.69	1.74	1.65	1.45	1.14	0.81	0.52	0.30	0.20	0.14	0.11	14.4	4.65
-21	0.11	0.15	0.21	0.29	0.45	0.64	0.80	0.93	0.97	0.92	0.79	0.63	0.45	0.29	0.20	0.15	0.11	0.09	8.17	0.00
-24	0.08	0.11	0.14	0.19	0.25	0.32	0.41	0.46	0.48	0.46	0.40	0.32	0.25	0.19	0.15	0.11	0.09	0.07	4.48	0.00
-27	0.06	0.08	0.10	0.13	0.16	0.20	0.23	0.25	0.25	0.25	0.23	0.20	0.17	0.14	0.11	0.09	0.07	0.05	2.76	0.00
Φ t	4.97	9.22	16.5	27.1	43.1	63.9	86.2	103	106	96.4	76.6	54.6	36.3	23.2	14.5	8.19	4.55	2.79	824	
Φ a	0.00	0.00	8.66	21.3	38.1	59.3	81.9	98.5	102	92.2	72.4	49.8	30.8	16.8	4.45	0.00	0.00	0.00		679

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月09日

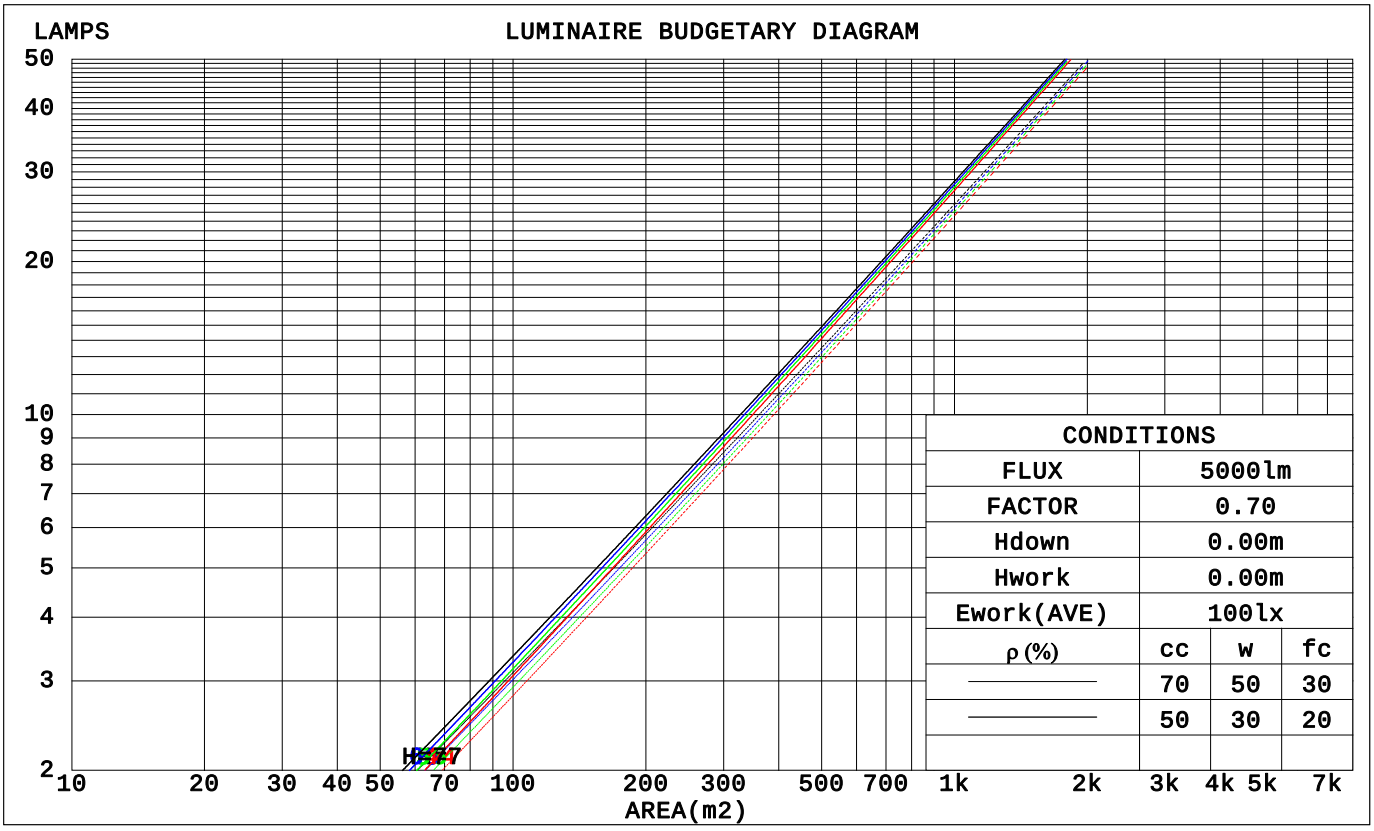
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.300 m
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER: Havit Commercial		
Address:		
NAME: HCP-251133	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	1.11	1.09	1.08	1.06	1.05	1.04	1.03	1.02	1.01	.99	.98	.98	.96
2.0	1.08	1.05	1.03	1.06	1.04	1.01	1.03	1.01	.99	.00	.98	.97	.97	.96	.95	.93
3.0	1.04	1.00	.97	1.02	.99	.97	.00	.97	.95	.97	.95	.93	.95	.93	.92	.91
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	.89	.94	.91	.89	.92	.90	.88	.91	.89	.87	.86
6.0	.94	.90	.87	.93	.89	.87	.92	.88	.86	.90	.88	.85	.89	.87	.85	.84
7.0	.91	.87	.84	.90	.87	.84	.89	.86	.84	.88	.85	.83	.87	.85	.83	.82
8.0	.89	.85	.82	.88	.84	.82	.87	.84	.82	.86	.83	.81	.85	.83	.81	.80
9.0	.86	.83	.80	.86	.82	.80	.85	.82	.80	.84	.81	.79	.84	.81	.79	.78
10.0	.84	.81	.78	.84	.80	.78	.83	.80	.78	.83	.80	.78	.82	.79	.77	.77



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月09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-251133	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	.134	.076	.024	.127	.072	.023	.114	.065	.021	.102	.059	.019	.091	.053	.017	
2.0	.123	.067	.021	.117	.064	.020	.106	.059	.018	.096	.054	.017	.087	.049	.016	
3.0	.113	.060	.018	.109	.058	.018	.100	.054	.016	.091	.050	.015	.084	.046	.014	
4.0	.106	.055	.016	.102	.053	.016	.094	.050	.015	.087	.047	.014	.081	.044	.013	
5.0	.099	.050	.015	.095	.049	.014	.089	.046	.014	.083	.044	.013	.077	.041	.012	
6.0	.093	.047	.013	.090	.046	.013	.085	.043	.013	.079	.041	.012	.075	.039	.012	
7.0	.088	.044	.012	.085	.043	.012	.081	.041	.012	.076	.039	.011	.072	.037	.011	
8.0	.084	.041	.011	.081	.040	.011	.077	.039	.011	.073	.037	.011	.069	.036	.010	
9.0	.080	.038	.011	.078	.038	.011	.074	.037	.010	.070	.035	.010	.067	.034	.010	
10.0	.076	.036	.010	.074	.036	.010	.071	.035	.010	.068	.034	.010	.065	.033	.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	.150	.141	.134	.103	.097	.092	.059	.056	.054	.019	.018	.017	
2.0	.157	.140	.126	.134	.120	.109	.092	.083	.076	.053	.048	.044	.017	.016	.014	
3.0	.141	.120	.104	.121	.104	.090	.083	.072	.063	.048	.042	.037	.015	.014	.012	
4.0	.129	.105	.087	.110	.091	.075	.076	.063	.053	.044	.037	.031	.014	.012	.010	
5.0	.118	.093	.074	.101	.080	.064	.070	.056	.045	.040	.033	.027	.013	.011	.009	
6.0	.109	.082	.064	.093	.071	.055	.064	.050	.039	.037	.029	.023	.012	.010	.008	
7.0	.101	.074	.056	.087	.064	.048	.060	.045	.034	.035	.027	.020	.011	.009	.007	
8.0	.094	.067	.049	.081	.058	.043	.056	.041	.030	.033	.024	.018	.011	.008	.006	
9.0	.088	.062	.044	.076	.053	.038	.053	.038	.027	.031	.022	.016	.010	.007	.005	
10.0	.083	.057	.039	.072	.049	.034	.050	.035	.024	.029	.021	.014	.009	.007	.005	

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月09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-251133	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	-6.6	-6.0	-6.4	-5.8	-5.6	-6.8	-6.2	-6.6	-6.0	-5.9
3H	-5.7	-5.1	-5.5	-4.9	-4.7	-5.9	-5.3	-5.7	-5.1	-4.9
4H	-5.0	-4.5	-4.8	-4.3	-4.0	-5.2	-4.7	-5.0	-4.5	-4.3
6H	-4.2	-3.7	-3.9	-3.4	-3.2	-4.3	-3.8	-4.0	-3.5	-3.3
8H	-3.5	-3.0	-3.2	-2.8	-2.5	-3.8	-3.3	-3.5	-3.0	-2.7
12H	-2.8	-2.3	-2.5	-2.0	-1.7	-2.9	-2.4	-2.6	-2.1	-1.9
4H 2H	-6.7	-6.2	-6.4	-6.0	-5.7	-6.9	-6.4	-6.6	-6.1	-5.9
3H	-5.7	-5.3	-5.4	-5.0	-4.7	-5.9	-5.4	-5.6	-5.2	-4.9
4H	-4.9	-4.5	-4.6	-4.2	-3.8	-5.1	-4.7	-4.8	-4.4	-4.1
6H	-3.8	-3.4	-3.5	-3.1	-2.8	-3.9	-3.5	-3.5	-3.2	-2.8
8H	-3.0	-2.6	-2.6	-2.2	-1.9	-3.2	-2.9	-2.8	-2.5	-2.1
12H	-2.0	-1.7	-1.6	-1.3	-0.9	-2.1	-1.8	-1.7	-1.4	-1.0
8H 4H	-5.0	-4.6	-4.6	-4.2	-3.9	-5.2	-4.8	-4.8	-4.5	-4.1
6H	-3.8	-3.5	-3.4	-3.1	-2.7	-3.9	-3.6	-3.4	-3.2	-2.7
8H	-2.8	-2.5	-2.3	-2.1	-1.6	-3.1	-2.8	-2.6	-2.4	-1.9
12H	-1.6	-1.3	-1.1	-0.9	-0.4	-1.7	-1.4	-1.2	-1.0	-0.5
12H 4H	-5.0	-4.7	-4.6	-4.3	-3.9	-5.2	-4.9	-4.8	-4.5	-4.1
6H	-3.8	-3.6	-3.4	-3.1	-2.7	-3.9	-3.6	-3.4	-3.2	-2.8
8H	-2.8	-2.6	-2.3	-2.1	-1.6	-3.1	-2.9	-2.6	-2.4	-1.9
Variations with the observer position at spacings:										
S = 1.0H	+ 1.1 / - 0.8					+ 1.0 / - 0.7				
1.5H	+ 2.0 / - 1.4					+ 2.1 / - 1.3				
2.0H	+ 1.5 / - 0.9					+ 1.7 / - 1.1				

CIE Pub.117 Corrected 824.4 lm Total Lamp Luminous Flux.(8log(F/F0) = -0.7)

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月09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-251133	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	89	84	80	89	83	80	77
0.80	97	91	88	96	91	88	95	91	88	84
1.00	101	96	92	100	95	92	98	95	91	88
1.25	104	100	96	103	99	96	101	98	95	91
1.50	107	102	99	106	102	99	103	100	98	93
2.00	109	105	102	108	104	101	105	102	100	95
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	107	99
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended					SHRNOM = 1.25	

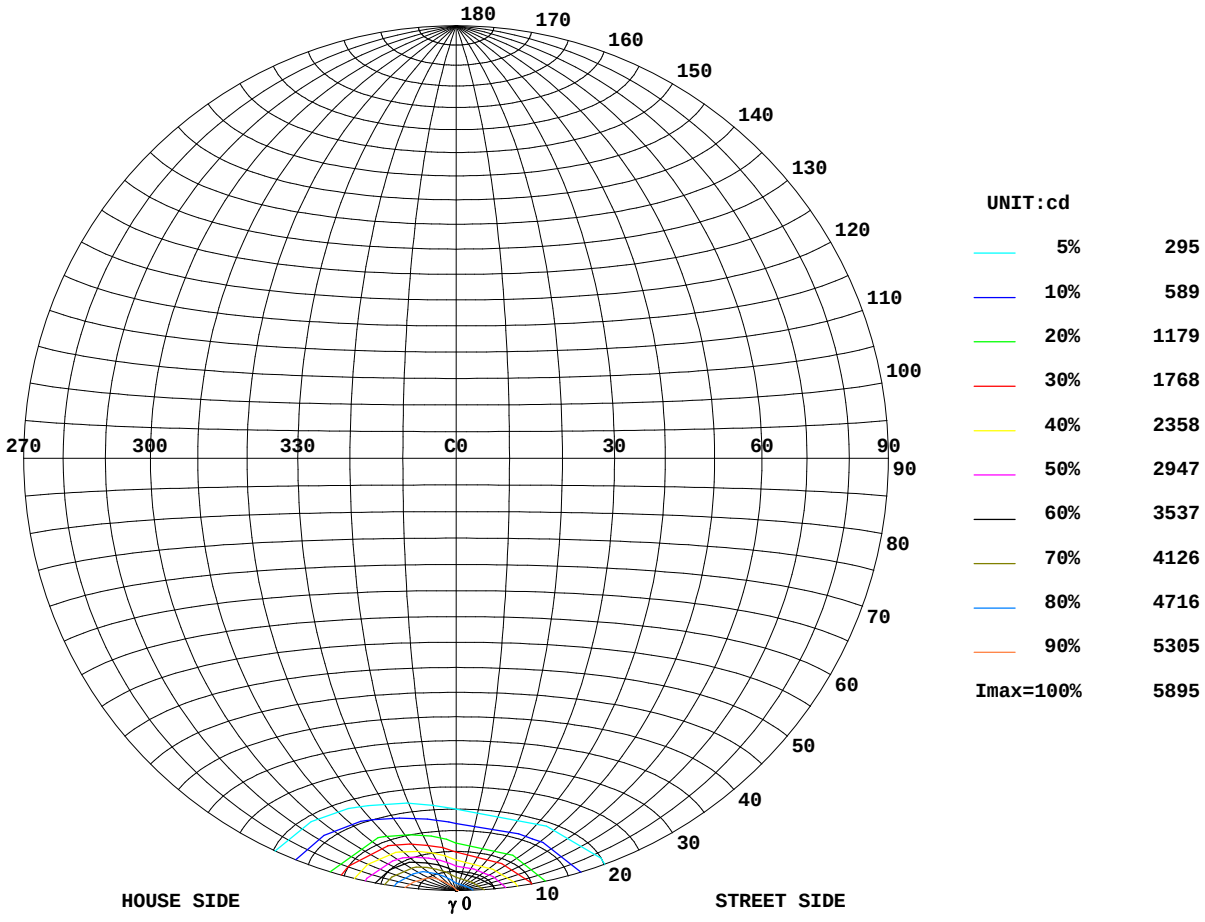
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月09日

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-251133	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月09日

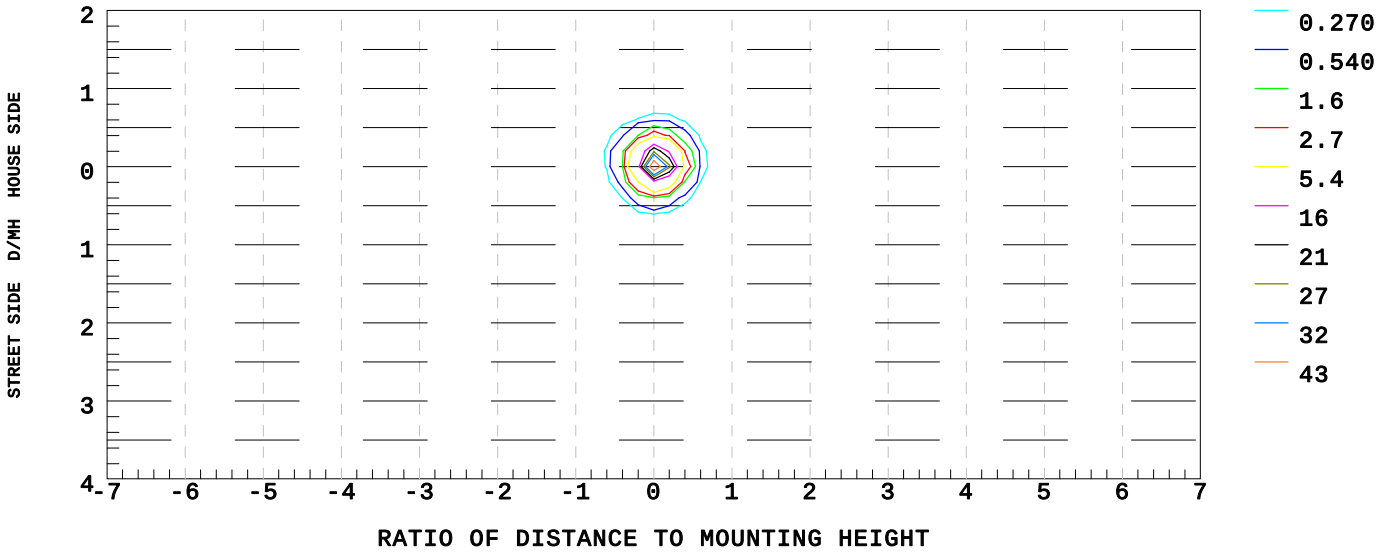
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.300 m
Remarks:

ISOLUX DIAGRAM

Report number:

MANUFACTURER: Havit Commercial		
Address:		
NAME: HCP-251133	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

ILLUMINANCE AT MH=10 m,Enadir = 53.72 lx





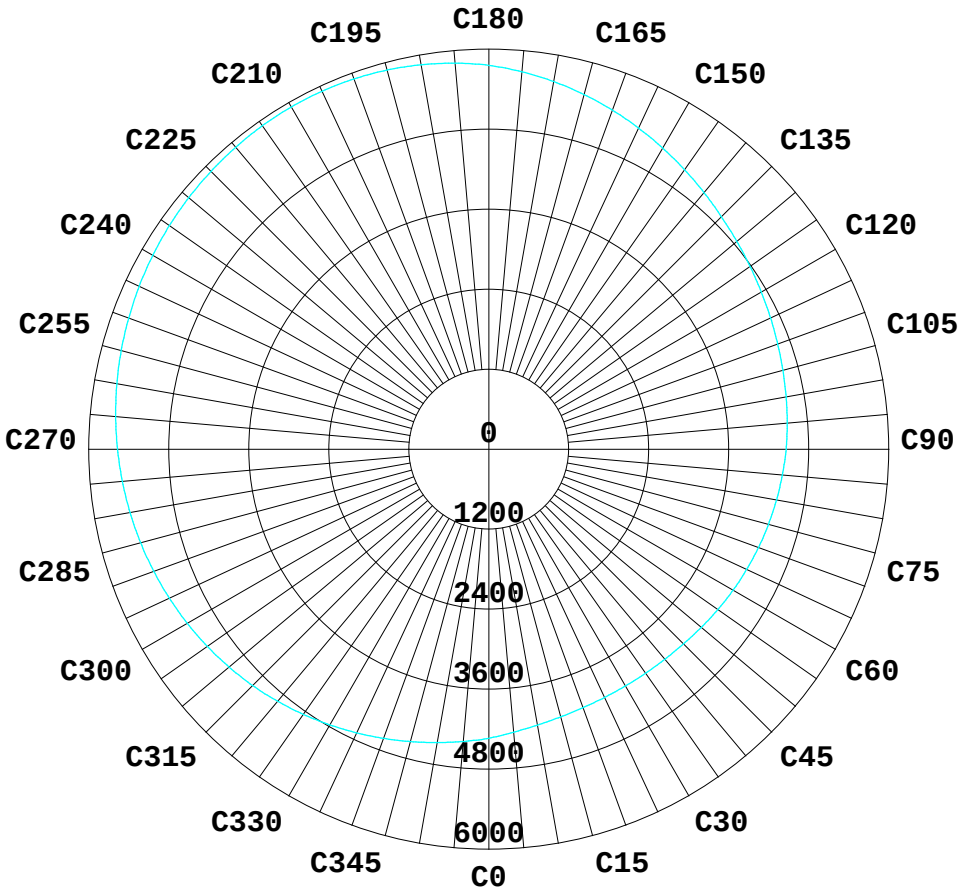
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月09日

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-251133	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月09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-251133	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

UNIT: cd

γ (DEG) \ C(DEG)	0	45	90	135	180	225	270	315
0.0	5372	5350	5376	5381	5372	5350	5376	5381
5.0	3496	3230	3631	4289	5527	5782	5195	4387
10.0	1707	1473	1785	2289	3583	3907	3221	2447
15.0	750	678	781	1004	1657	1868	1458	1084
20.0	292	238	302	410	718	804	632	491
25.0	99.1	77.9	98.8	117	229	276	221	165
30.0	51.6	40.0	50.8	50.4	75.9	95.2	71.0	67.2
35.0	29.8	21.7	28.3	26.3	36.0	47.3	36.4	37.8
40.0	16.6	10.6	15.4	13.2	17.9	24.9	17.9	21.5
45.0	9.85	5.09	9.43	6.61	9.02	13.7	7.99	11.7
50.0	6.61	2.68	6.13	3.30	4.27	8.68	3.92	7.64
55.0	4.82	1.37	4.61	1.79	2.48	5.99	2.06	5.37
60.0	3.78	0.96	3.51	1.10	1.58	4.20	1.24	3.99
65.0	2.89	0.69	2.89	0.76	1.10	3.44	0.83	3.30
70.0	2.82	0.48	2.68	0.55	0.83	3.03	0.55	2.82
75.0	2.27	0.34	1.99	0.28	0.55	2.54	0.34	2.41
80.0	1.79	0.21	2.06	0.28	0.48	2.27	0.28	2.13
85.0	1.79	0.21	1.86	0.14	0.41	2.06	0.14	1.79
90.0	1.58	0.14	1.65	0.07	0.34	1.86	0.00	1.44
95.0	1.37	0.14	1.44	0.14	0.28	1.58	0.07	1.44
100.0	1.24	0.14	1.37	0.07	0.21	1.51	0.00	1.37
105.0	1.37	0.21	1.30	0.14	0.34	1.37	0.14	1.30
110.0	1.03	0.00	1.24	0.14	0.41	1.30	0.21	1.24
115.0	1.24	0.21	1.10	0.14	0.28	1.17	0.14	1.17
120.0	1.17	0.14	1.10	0.21	0.41	1.24	0.21	0.96
125.0	1.10	0.28	1.10	0.14	0.48	1.17	0.21	1.10
130.0	1.10	0.34	0.90	0.28	0.55	1.03	0.34	1.03
135.0	1.10	0.34	0.69	0.34	0.41	0.83	0.34	1.17
140.0	1.03	0.69	1.24	0.55	0.76	1.17	0.48	1.30
145.0	1.79	1.24	1.51	0.83	1.17	1.30	0.90	1.65
150.0	2.54	2.20	2.27	1.51	1.79	2.06	1.65	2.48
155.0	3.65	3.37	3.23	2.54	2.89	2.96	2.34	3.51
160.0	4.27	4.34	3.85	3.65	3.78	3.99	3.78	4.68
165.0	4.82	4.61	4.34	4.40	5.02	5.09	4.54	4.89
170.0	5.09	4.47	4.82	4.47	5.44	5.44	4.68	5.16
175.0	5.02	4.27	4.75	4.27	5.44	5.30	4.61	4.61
180.0	5.23	4.34	4.96	3.99	5.37	4.89	4.68	4.54

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年07月09日

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