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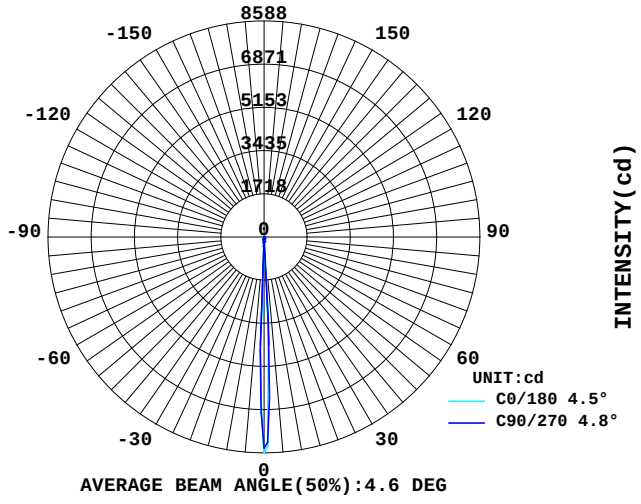
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

MANUFACTURER: Havit Commercial		
Address:		
NAME: HCP-251033	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

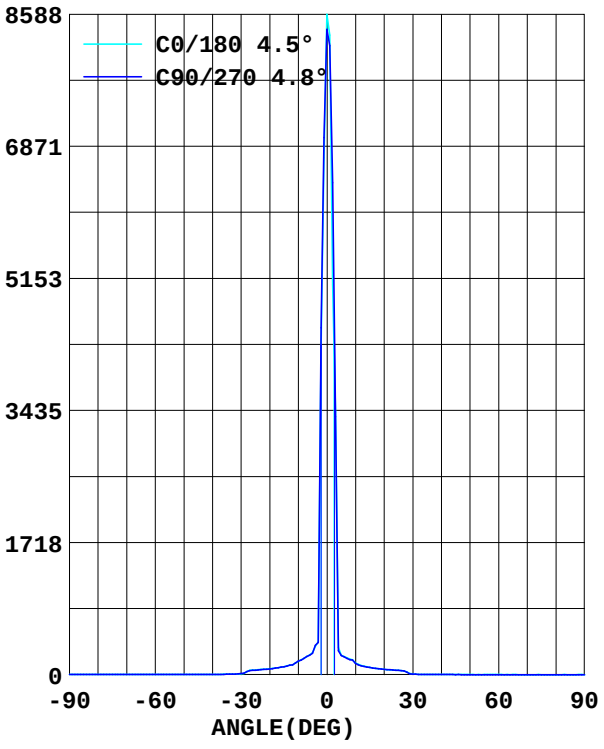
DATA OF LAMP		Imax(cd)	10126	S/MH(C0/180)	0.06
MODEL		EFFICIENCY(%)	100.0	S/MH(C90/270)	0.06
NOMINAL POWER(W)	3	TOTAL FLUX(lm)	124.72	Voltage(V)	23.86
RATED VOLTAGE(V)	24	EFFICIENCY(lm/W)	43.2	Current(A)	0.121
NOMINAL FLUX(lm)	124.7	η up(%)	1.4	Power(W)	2.890
LAMPS QUANTITY	1	η down(%)	98.6	Power Factor(PF)	1.000
TEST VOLTAGE(V)	23.9	Effictive Flux(lm)	46.8	EEI	0.348

LUMINOUS INTENSITY DISTRIBUTION



AVERAGE BEAM ANGLE(50%):4.6 DEG

LUMINOUS INTENSITY DISTRIBUTION



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

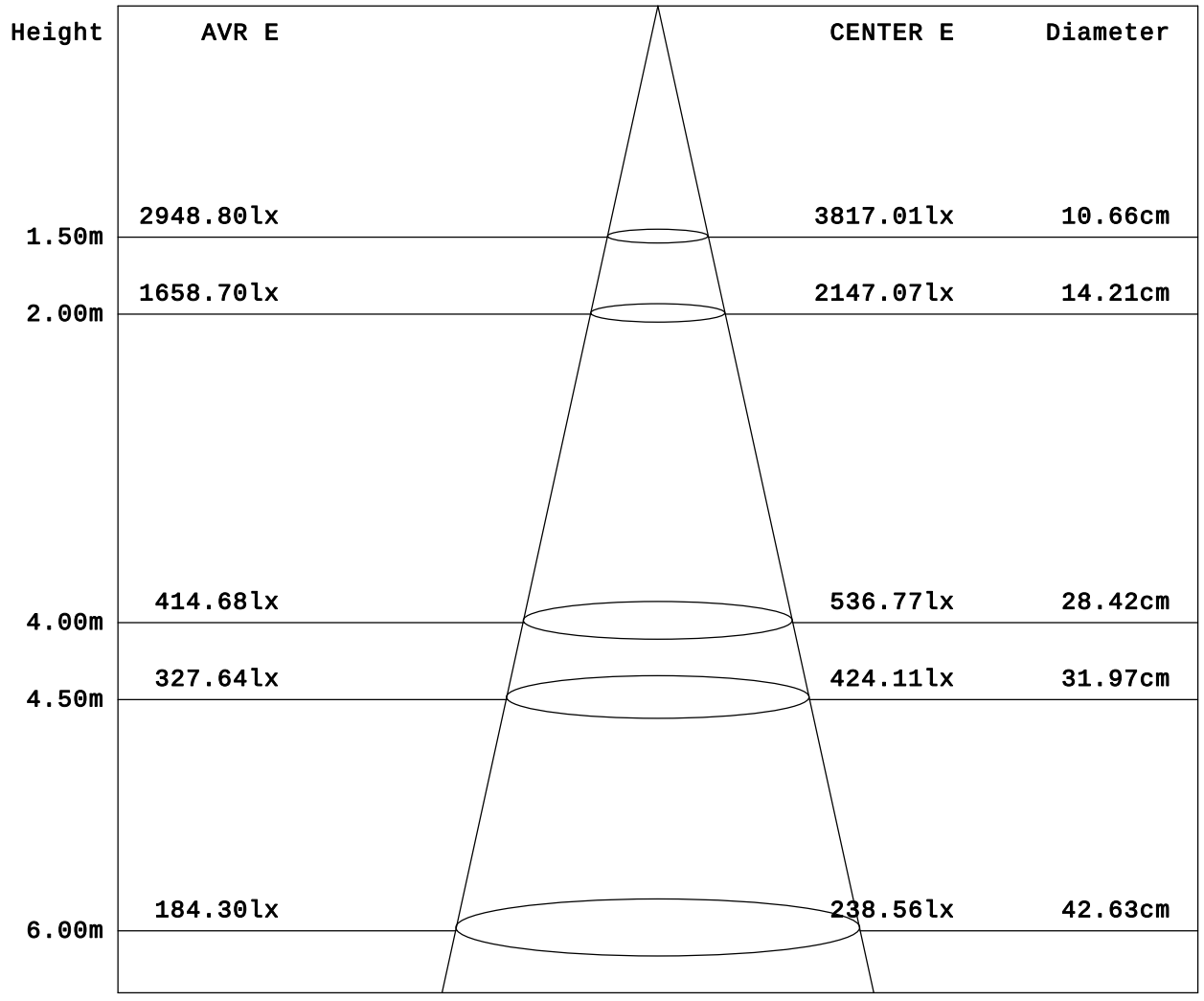
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.300 m
Remarks:

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E-mail:sales@havitcommercial.com.au

AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER: Havit Commercial		
Address:		
NAME: HCP-251033	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



Angle:4.1deg

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:

HAVIT COMMERCIAL
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ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER: Havit Commercial		
Address:		
NAME: HCP-251033	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	zone	total
5.0	28.45	26.46	27.54	24.55	25.04	26.06	24.95	29.61	0- 5	51.33	51.33
10.0	17.29	14.98	17.65	14.61	15.05	16.67	14.60	17.20	5- 10	14.99	66.33
15.0	10.38	9.458	10.26	8.969	9.424	9.954	9.238	10.34	10- 15	14.27	80.60
20.0	7.681	6.847	7.433	6.592	6.709	7.398	6.882	7.681	15- 20	13.62	94.23
25.0	6.241	5.511	5.821	5.297	5.476	6.213	5.518	6.268	20- 25	13.43	107.6
30.0	1.184	0.792	1.315	0.813	0.875	1.274	0.737	1.288	25- 30	9.501	117.1
35.0	0.448	0.055	0.427	0.069	0.090	0.441	0.069	0.441	30- 35	1.422	118.5
40.0	0.351	0.028	0.331	0.021	0.034	0.331	0.028	0.344	35- 40	0.721	119.3
45.0	0.276	0	0.269	0.014	0.041	0.269	0	0.269	40- 45	0.595	119.9
50.0	0.234	0	0.220	0	0.021	0.220	0	0.220	45- 50	0.513	120.4
55.0	0.200	0	0.179	0	0.007	0.179	0	0.186	50- 55	0.444	120.8
60.0	0.172	0	0.158	0	0.007	0.158	0	0.158	55- 60	0.403	121.2
65.0	0.152	0	0.138	0	0.007	0.145	0	0.138	60- 65	0.361	121.6
70.0	0.138	0	0.124	0	0	0.124	0	0.110	65- 70	0.331	121.9
75.0	0.117	0	0.090	0	0	0.110	0	0.110	70- 75	0.299	122.2
80.0	0.110	0	0.096	0	0	0.096	0	0.096	75- 80	0.271	122.5
85.0	0.103	0	0.076	0	0	0.090	0	0.083	80- 85	0.244	122.7
90.0	0.090	0	0.076	0	0	0.076	0	0.069	85- 90	0.221	122.9
95.0	0.083	0	0.055	0	0	0.062	0	0.069	90- 95	0.204	123.2
100.0	0.069	0	0.048	0	0.007	0.062	0	0.062	95-100	0.179	123.3
105.0	0.076	0	0.055	0	0	0.055	0	0.034	100-105	0.153	123.5
110.0	0.055	0	0.048	0	0.007	0.055	0	0.041	105-110	0.140	123.6
115.0	0.062	0	0.041	0	0.007	0.028	0	0.041	110-115	0.126	123.7
120.0	0.048	0	0.048	0	0.007	0.028	0	0.034	115-120	0.109	123.9
125.0	0.028	0	0.041	0	0	0.041	0	0.007	120-125	0.094	124.0
130.0	0.041	0	0.028	0	0.014	0.014	0	0.028	125-130	0.083	124.0
135.0	0.021	0	0.034	0	0.021	0.028	0	0.028	130-135	0.075	124.1
140.0	0.048	0	0.028	0	0.021	0.034	0	0.034	135-140	0.070	124.2
145.0	0.041	0	0.034	0	0.028	0.034	0	0.028	140-145	0.063	124.2
150.0	0.048	0	0.021	0	0.034	0.048	0	0.014	145-150	0.061	124.3
155.0	0.055	0.021	0.055	0.014	0.069	0.062	0.021	0.055	150-155	0.071	124.4
160.0	0.062	0.034	0.048	0.034	0.069	0.076	0.014	0.055	155-160	0.100	124.5
165.0	0.041	0.048	0.055	0.048	0.069	0.055	0	0.069	160-165	0.082	124.6
170.0	0.069	0.055	0.055	0.034	0.076	0.083	0.028	0.076	165-170	0.061	124.6
175.0	0.069	0.048	0.048	0.041	0.076	0.069	0.034	0.076	170-175	0.040	124.7
180.0	0.055	0.028	0.021	0	0.083	0.028	0.028	0.048	175-180	0.012	124.7
DEG	LUMINOUS INTENSITY:×10cd									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:

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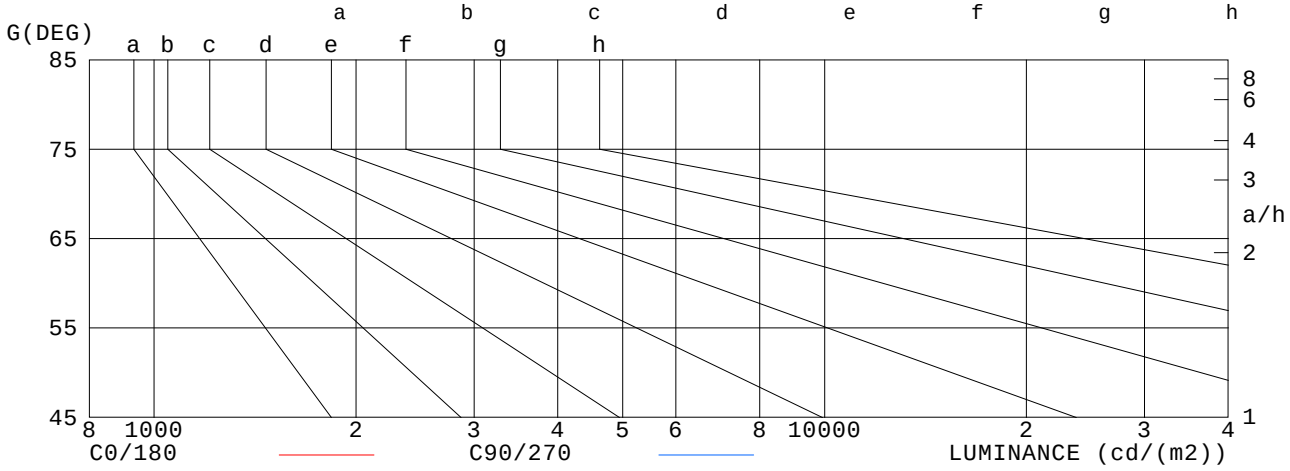
LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER: Havit Commercial		
Address:		
NAME: HCP-251033	**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	87
80	63	56
75	45	35
70	40	36
65	36	33
60	34	32
55	35	31
50	36	34
45	39	38

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

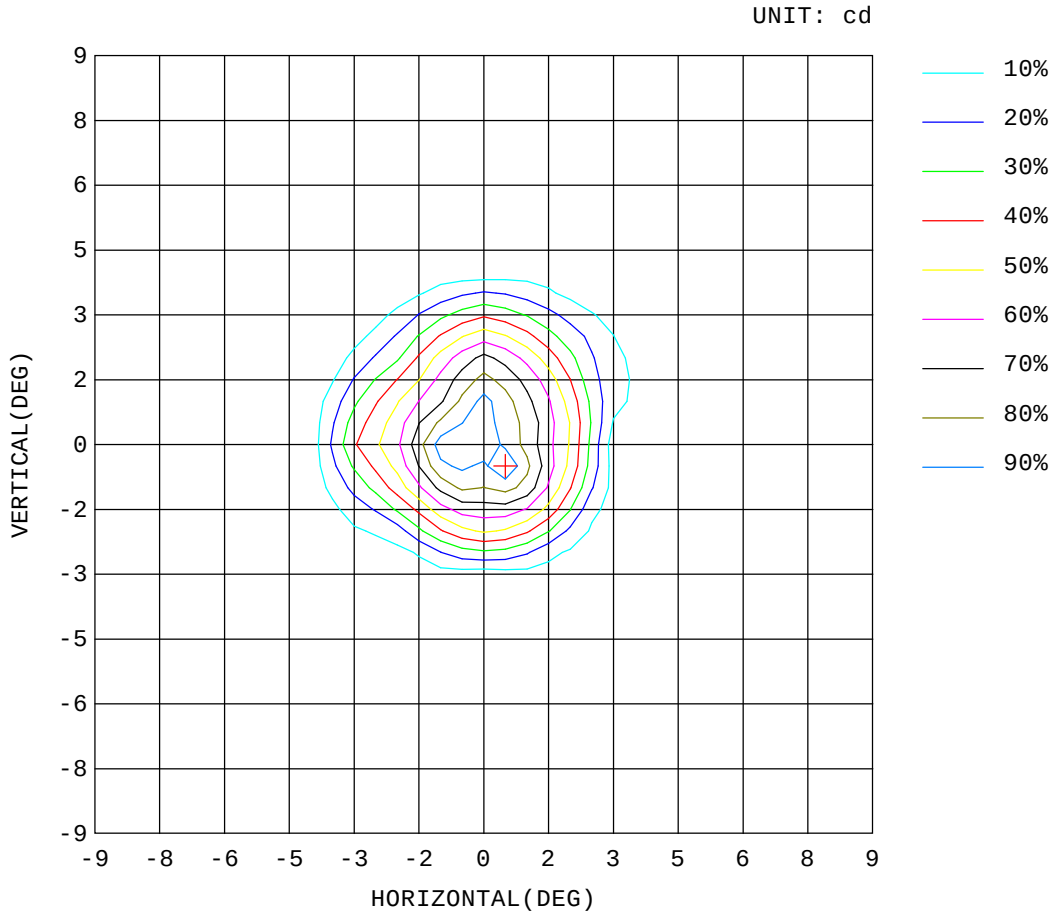
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.300 m
Remarks:

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ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: Havit Commercial		
Address:		
NAME: HCP-251033	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



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

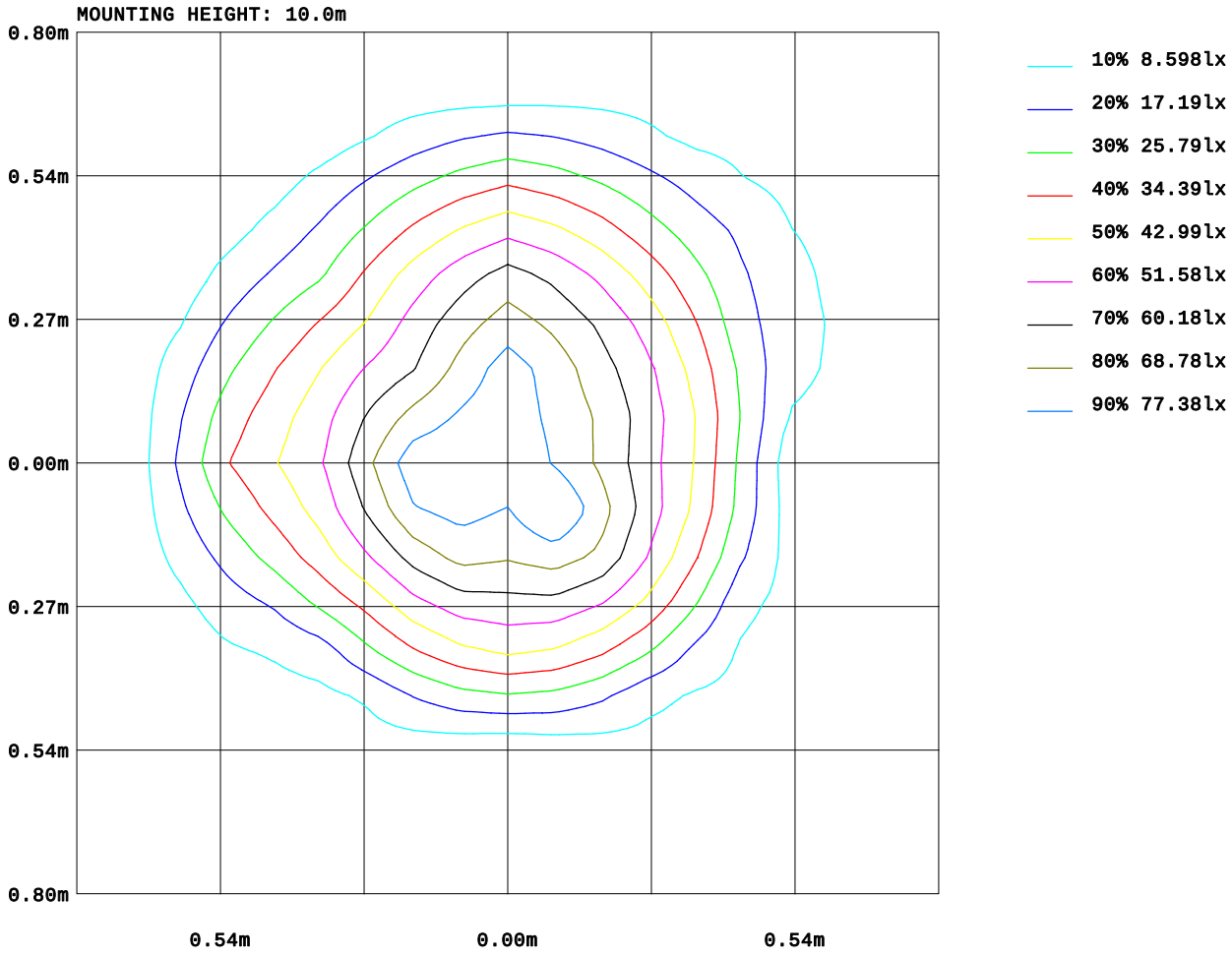
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.300 m
Remarks:

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ISOLUX DIAGRAM

Report number:

MANUFACTURER: Havit Commercial		
Address:		
NAME: HCP-251033	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:

HAVIT COMMERCIAL
http://www.havitcommercial.com.au
Tel：02 9381 8383
E-mail:sales@havitcommercial.com.au

AREA LUMINOUS FLUX

Report number:

MANUFACTURER: Havit Commercial		
Address:		
NAME: HCP-251033	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	0.04	0.04	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.04	0.04	0.92	0.00
8	0.04	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.04	1.00	0.00
7	0.05	0.05	0.05	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.05	0.05	1.09	0.00
6	0.05	0.05	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.07	0.07	0.07	0.07	0.06	0.06	0.05	1.18	0.00
5	0.05	0.06	0.06	0.07	0.07	0.08	0.08	0.08	0.09	0.10	0.10	0.08	0.08	0.08	0.07	0.07	0.06	0.05	1.31	0.00
4	0.06	0.06	0.07	0.07	0.08	0.08	0.10	0.24	0.49	0.51	0.31	0.18	0.10	0.08	0.07	0.07	0.06	0.06	2.67	1.31
3	0.06	0.06	0.07	0.07	0.08	0.10	0.35	0.82	1.32	1.35	0.89	0.47	0.18	0.09	0.08	0.07	0.06	0.06	6.17	5.20
	0.06	0.06	0.07	0.07	0.08	0.24	0.81	1.32	1.98	2.03	1.46	0.62	0.23	0.11	0.08	0.07	0.07	0.06	9.45	8.24
	0.06	0.06	0.07	0.07	0.09	0.50	1.19	1.85	2.39	2.28	1.70	0.77	0.18	0.11	0.08	0.07	0.07	0.06	11.6	10.7
	0.06	0.06	0.07	0.07	0.09	0.47	1.12	1.87	2.45	2.66	1.71	0.69	0.13	0.10	0.08	0.07	0.07	0.06	11.8	10.9
	0.06	0.06	0.07	0.07	0.08	0.20	0.56	1.13	1.71	1.75	1.25	0.33	0.13	0.09	0.08	0.07	0.07	0.06	7.78	6.74
-3	0.06	0.06	0.07	0.07	0.07	0.09	0.16	0.29	0.69	0.71	0.33	0.19	0.10	0.08	0.08	0.07	0.06	0.06	3.24	2.02
-4	0.06	0.06	0.06	0.07	0.07	0.08	0.09	0.12	0.13	0.13	0.13	0.10	0.08	0.08	0.07	0.07	0.06	0.06	1.51	0.00
-5	0.05	0.06	0.06	0.06	0.07	0.07	0.08	0.09	0.10	0.10	0.09	0.08	0.08	0.07	0.07	0.06	0.06	0.05	1.28	0.00
-6	0.04	0.05	0.06	0.06	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.07	0.07	0.07	0.06	0.06	0.05	0.05	1.17	0.00
-7	0.04	0.05	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.05	0.04	1.08	0.00
-8	0.04	0.04	0.05	0.05	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.05	0.05	0.04	0.04	0.99	0.00
-9	0.03	0.04	0.04	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.04	0.04	0.04	0.90	0.00
HORIZONTAL(DEG)																				
Φ t	0.89	0.98	1.06	1.14	1.26	2.41	5.05	8.35	11.9	12.1	8.52	4.03	1.80	1.36	1.21	1.11	1.01	0.92	125	
Φ a	0.00	0.00	0.00	0.00	0.00	0.98	4.03	7.29	11.0	11.3	7.66	2.87	0.00	0.00	0.00	0.00	0.00	0.00		47

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:

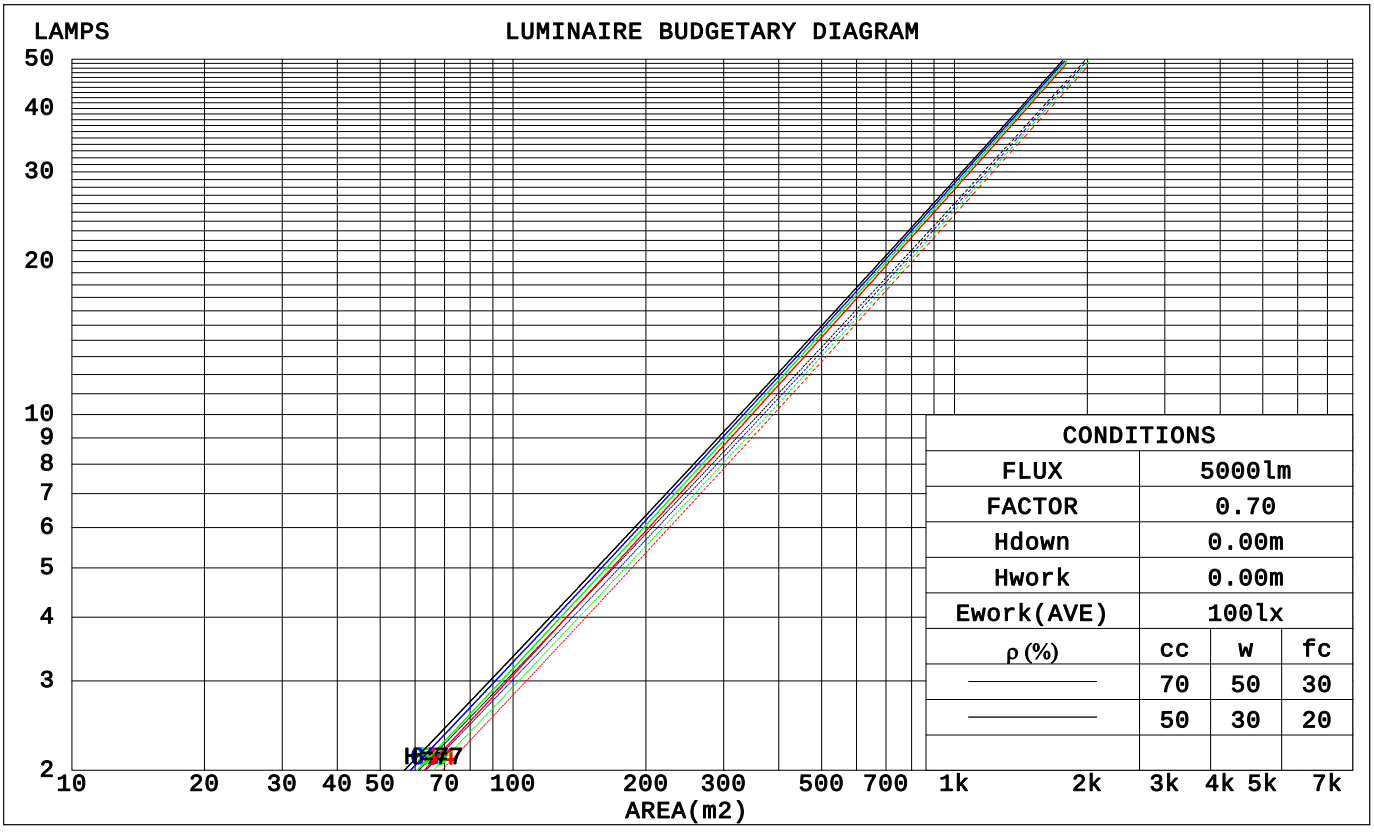
HAVIT COMMERCIAL
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER: Havit Commercial		
Address:		
NAME: HCP-251033	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	.95
2.0	1.08	1.05	1.02	1.06	1.03	1.01	1.02	1.00	.99	.99	.98	.96	.97	.95	.94	.93
3.0	1.03	.00	.97	1.02	.99	.96	.99	.97	.95	.97	.95	.93	.95	.93	.91	.90
4.0	.00	.96	.93	.99	.95	.92	.96	.93	.91	.94	.92	.90	.93	.91	.89	.88
5.0	.96	.93	.90	.96	.92	.89	.94	.91	.88	.92	.90	.88	.91	.89	.87	.86
6.0	.94	.90	.87	.93	.89	.87	.91	.88	.86	.90	.87	.85	.89	.87	.85	.84
7.0	.91	.87	.85	.91	.87	.84	.89	.86	.84	.88	.85	.83	.87	.85	.83	.82
8.0	.89	.85	.83	.88	.85	.82	.87	.84	.82	.86	.84	.82	.86	.83	.81	.80
9.0	.87	.83	.81	.86	.83	.80	.86	.82	.80	.85	.82	.80	.84	.81	.80	.79
10.0	.85	.81	.79	.85	.81	.79	.84	.81	.79	.83	.80	.78	.83	.80	.78	.77



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:

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WEC AND CCEC

Report number:

MANUFACTURER: Havit Commercial		
Address:		
NAME: HCP-251033	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	.060	.019	.093	.054	.017	
2.0	.125	.068	.021	.119	.065	.020	.108	.060	.019	.098	.055	.017	.089	.050	.016	
3.0	.115	.061	.018	.110	.059	.018	.101	.055	.017	.092	.050	.015	.084	.047	.014	
4.0	.106	.055	.016	.102	.053	.016	.094	.050	.015	.087	.047	.014	.080	.044	.013	
5.0	.099	.050	.015	.095	.049	.014	.089	.046	.014	.083	.044	.013	.077	.041	.012	
6.0	.093	.046	.013	.090	.045	.013	.084	.043	.013	.079	.041	.012	.074	.039	.012	
7.0	.087	.043	.012	.085	.042	.012	.080	.040	.012	.075	.038	.011	.071	.037	.011	
8.0	.083	.040	.011	.080	.040	.011	.076	.038	.011	.072	.036	.010	.068	.035	.010	
9.0	.078	.038	.011	.076	.037	.010	.072	.036	.010	.069	.035	.010	.065	.033	.010	
10.0	.075	.036	.010	.073	.035	.010	.069	.034	.010	.066	.033	.009	.063	.032	.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	.201	.201	.201	.172	.172	.172	.117	.117	.117	.067	.067	.067	.022	.022	.022	
1.0	.179	.168	.159	.153	.144	.137	.105	.099	.094	.060	.057	.055	.019	.019	.018	
2.0	.161	.143	.129	.138	.123	.111	.094	.085	.078	.054	.050	.046	.017	.016	.015	
3.0	.145	.124	.107	.125	.107	.093	.086	.074	.065	.049	.043	.038	.016	.014	.013	
4.0	.132	.109	.090	.114	.094	.079	.078	.065	.055	.045	.038	.033	.015	.012	.011	
5.0	.121	.096	.078	.104	.083	.067	.072	.058	.048	.042	.034	.028	.013	.011	.009	
6.0	.112	.086	.067	.096	.075	.059	.067	.052	.042	.039	.031	.025	.012	.010	.008	
7.0	.104	.078	.059	.090	.067	.052	.062	.047	.037	.036	.028	.022	.012	.009	.007	
8.0	.097	.071	.053	.084	.062	.046	.058	.043	.033	.034	.025	.019	.011	.008	.006	
9.0	.091	.065	.047	.079	.057	.041	.055	.040	.029	.032	.023	.018	.010	.008	.006	
10.0	.086	.060	.043	.074	.052	.038	.052	.037	.027	.030	.022	.016	.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:

HAVIT COMMERCIAL
http://www.havitcommercial.com.au
Tel：02 9381 8383
E-mail:sales@havitcommercial.com.au

Uncorrected UGR Table

Report number:

MANUFACTURER: Havit Commercial		
Address:		
NAME: HCP-251033	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	-9.7	-9.1	-9.5	-8.9	-8.8	-10.4	-9.8	-10.2	-9.6	-9.4
3H	-6.9	-6.4	-6.7	-6.2	-5.9	-7.8	-7.2	-7.6	-7.0	-6.8
4H	-5.5	-4.9	-5.2	-4.7	-4.5	-6.4	-5.9	-6.1	-5.7	-5.4
6H	-3.8	-3.3	-3.5	-3.0	-2.8	-4.6	-4.1	-4.3	-3.8	-3.6
8H	-2.8	-2.3	-2.5	-2.0	-1.8	-3.8	-3.3	-3.5	-3.0	-2.8
12H	-1.7	-1.2	-1.4	-0.9	-0.6	-3.0	-2.5	-2.6	-2.2	-1.9
4H 2H	-9.8	-9.3	-9.5	-9.1	-8.8	-10.5	-10.0	-10.2	-9.7	-9.5
3H	-6.9	-6.4	-6.6	-6.2	-5.9	-7.8	-7.3	-7.5	-7.0	-6.7
4H	-5.3	-4.8	-4.9	-4.5	-4.2	-6.2	-5.8	-5.9	-5.5	-5.1
6H	-3.3	-2.9	-2.9	-2.5	-2.2	-4.0	-3.7	-3.7	-3.3	-2.9
8H	-2.1	-1.7	-1.7	-1.3	-1.0	-3.1	-2.7	-2.7	-2.4	-2.0
12H	-0.7	-0.4	-0.3	0.0	0.4	-2.1	-1.7	-1.6	-1.3	-0.9
8H 4H	-5.4	-5.0	-5.0	-4.6	-4.2	-6.3	-5.9	-5.9	-5.5	-5.1
6H	-3.2	-2.9	-2.8	-2.5	-2.1	-4.0	-3.7	-3.6	-3.3	-2.8
8H	-1.9	-1.6	-1.4	-1.2	-0.7	-2.9	-2.6	-2.5	-2.2	-1.7
12H	-0.2	0.0	0.3	0.5	1.0	-1.6	-1.4	-1.1	-0.9	-0.4
12H 4H	-5.4	-5.0	-5.0	-4.7	-4.2	-6.3	-5.9	-5.8	-5.5	-5.1
6H	-3.3	-3.0	-2.8	-2.6	-2.1	-4.0	-3.8	-3.6	-3.3	-2.8
8H	-1.9	-1.7	-1.4	-1.2	-0.7	-2.9	-2.7	-2.5	-2.2	-1.7

Variations with the observer position at spacings:		
S = 1.0H	+ 0.3 / - 0.3	+ 0.5 / - 0.5
1.5H	+ 0.8 / - 0.4	+ 0.9 / - 0.8
2.0H	+ 0.9 / - 1.1	+ 1.1 / - 1.3

CIE Pub.117 Corrected 124.7 lm Total Lamp Luminous Flux.(8log(F/F0) = -7.2)

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:

HAVIT COMMERCIAL
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UTILIZATION FACTORS TABLE

Report number:

MANUFACTURER: Havit Commercial		
Address:		
NAME: HCP-251033	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	79	88	83	79	88	82	79	76
0.80	96	90	87	95	90	87	94	89	86	83
1.00	100	94	91	99	94	91	97	94	90	86
1.25	104	98	95	102	98	95	100	97	94	90
1.50	106	101	98	105	101	98	102	99	97	92
2.00	108	104	101	107	103	100	104	101	99	93
2.50	110	106	103	108	105	102	105	102	100	94
3.00	112	108	105	110	107	104	106	104	102	95
4.00	114	111	109	111	109	107	108	106	104	97
5.00	115	113	111	113	111	109	108	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

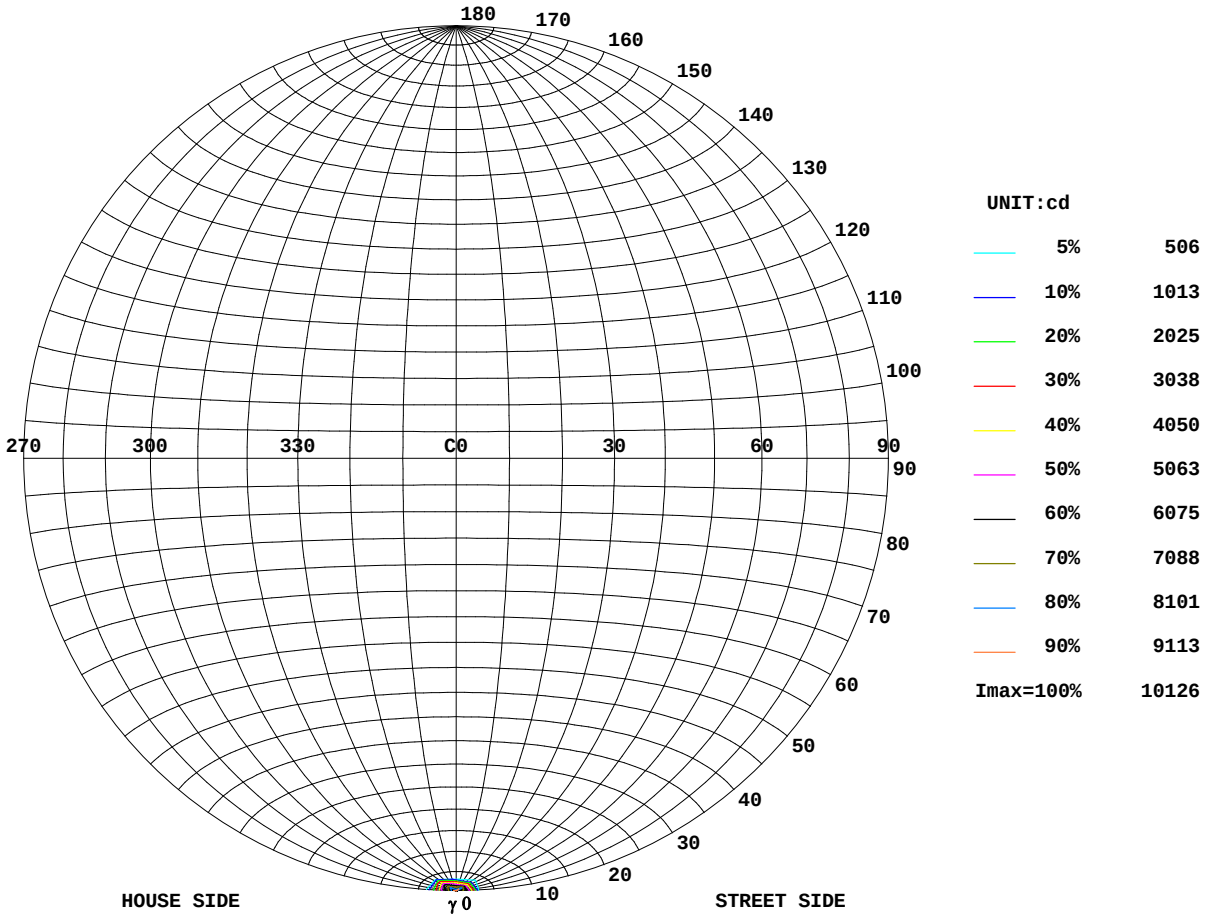
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.300 m
Remarks:

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ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: Havit Commercial		
Address:		
NAME: HCP-251033	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



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

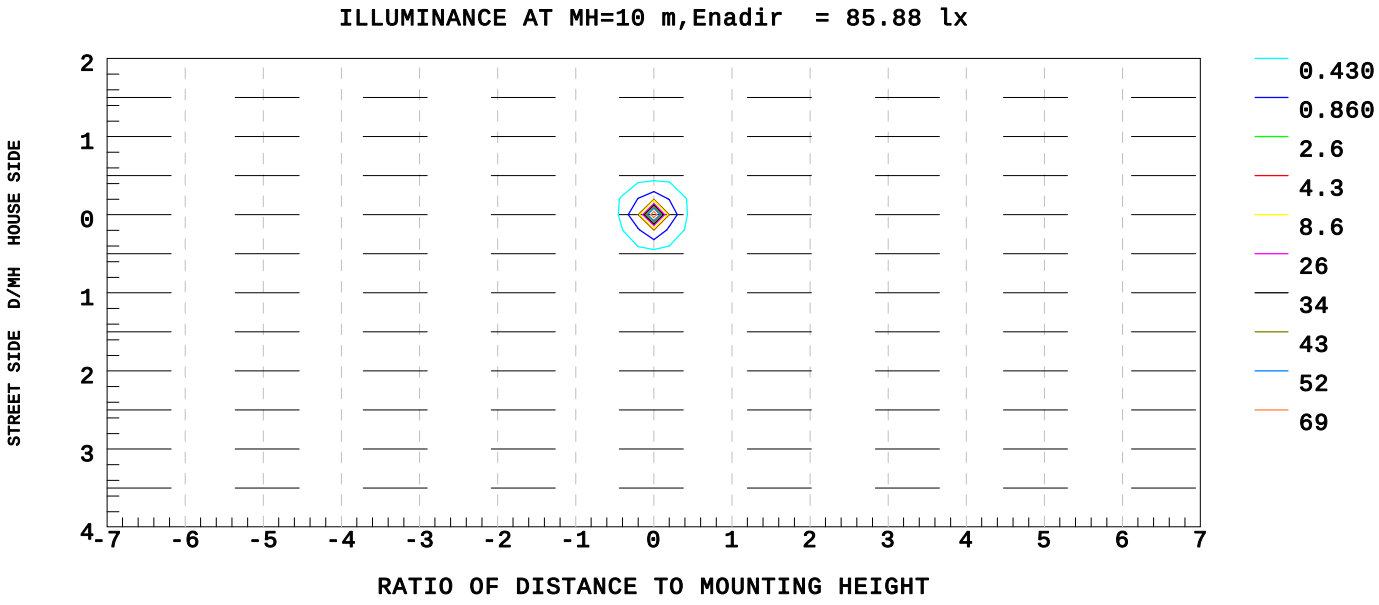
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.300 m
Remarks:

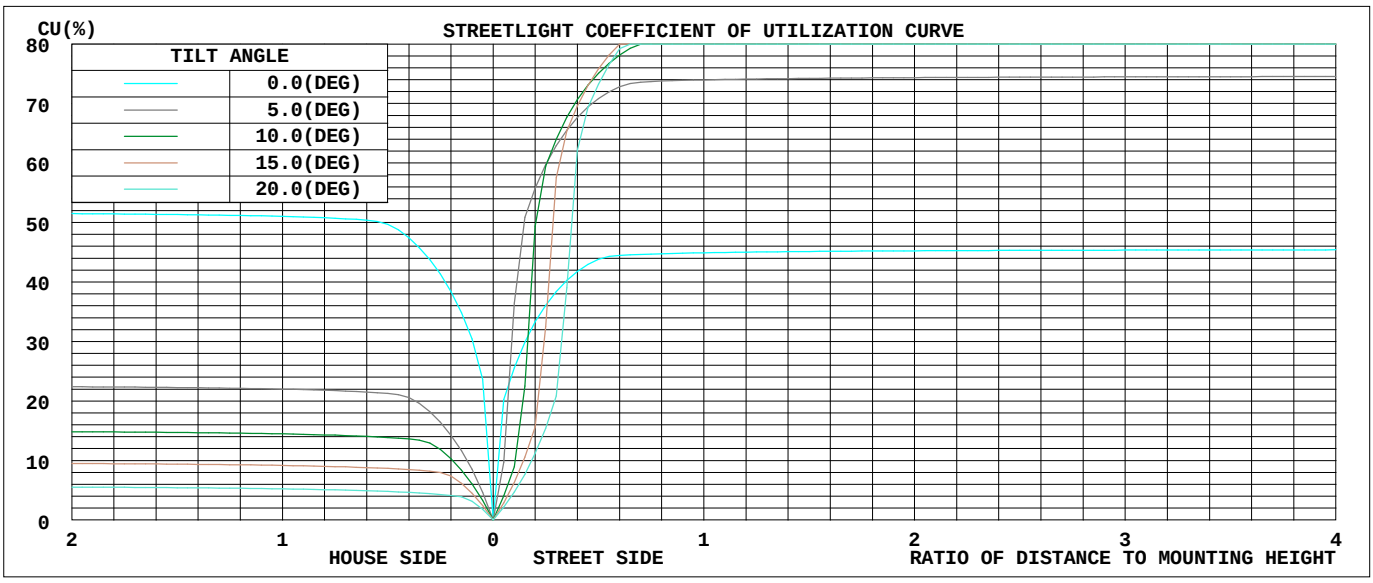
HAVIT COMMERCIAL
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ISOLUX DIAGRAM

Report number:

MANUFACTURER: Havit Commercial		
Address:		
NAME: HCP-251033	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:





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

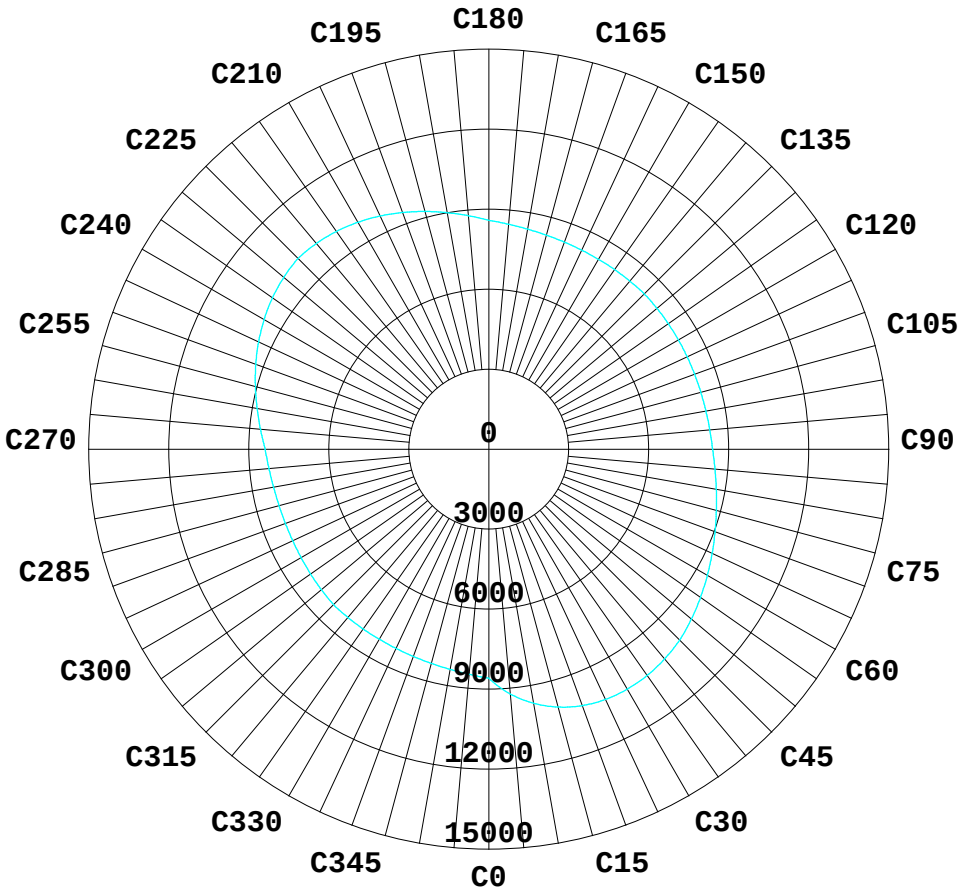
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.300 m
Remarks:

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ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: Havit Commercial		
Address:		
NAME: HCP-251033	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



HOUSE SIDE Max @ γ = 0.0DEG STREET SIDE

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:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER: Havit Commercial		
Address:		
NAME: HCP-251033	**TYPE:**	**WEIGHT:**
SPECIFICATION:	**DIMENSION:**	**SERIAL No.:**

UNIT: ×10cd

C(DEG) / γ (DEG)	0	45	90	135	180	225	270	315
0.0	859	1013	839	825	859	1013	839	825
5.0	28.4	26.4	27.5	24.5	25.0	26.0	24.9	29.6
10.0	17.2	14.9	17.6	14.6	15.0	16.6	14.6	17.2
15.0	10.3	9.45	10.2	8.96	9.42	9.95	9.23	10.3
20.0	7.68	6.84	7.43	6.59	6.70	7.39	6.88	7.68
25.0	6.24	5.51	5.82	5.29	5.47	6.21	5.51	6.26
30.0	1.18	0.79	1.31	0.81	0.87	1.27	0.74	1.28
35.0	0.45	0.06	0.43	0.07	0.09	0.44	0.07	0.44
40.0	0.35	0.03	0.33	0.02	0.03	0.33	0.03	0.34
45.0	0.28	0.00	0.27	0.01	0.04	0.27	0.00	0.27
50.0	0.23	0.00	0.22	0.00	0.02	0.22	0.00	0.22
55.0	0.20	0.00	0.18	0.00	0.01	0.18	0.00	0.19
60.0	0.17	0.00	0.16	0.00	0.01	0.16	0.00	0.16
65.0	0.15	0.00	0.14	0.00	0.01	0.14	0.00	0.14
70.0	0.14	0.00	0.12	0.00	0.00	0.12	0.00	0.11
75.0	0.12	0.00	0.09	0.00	0.00	0.11	0.00	0.11
80.0	0.11	0.00	0.10	0.00	0.00	0.10	0.00	0.10
85.0	0.10	0.00	0.08	0.00	0.00	0.09	0.00	0.08
90.0	0.09	0.00	0.08	0.00	0.00	0.08	0.00	0.07
95.0	0.08	0.00	0.06	0.00	0.00	0.06	0.00	0.07
100.0	0.07	0.00	0.05	0.00	0.01	0.06	0.00	0.06
105.0	0.08	0.00	0.06	0.00	0.00	0.06	0.00	0.03
110.0	0.06	0.00	0.05	0.00	0.01	0.06	0.00	0.04
115.0	0.06	0.00	0.04	0.00	0.01	0.03	0.00	0.04
120.0	0.05	0.00	0.05	0.00	0.01	0.03	0.00	0.03
125.0	0.03	0.00	0.04	0.00	0.00	0.04	0.00	0.01
130.0	0.04	0.00	0.03	0.00	0.01	0.01	0.00	0.03
135.0	0.02	0.00	0.03	0.00	0.02	0.03	0.00	0.03
140.0	0.05	0.00	0.03	0.00	0.02	0.03	0.00	0.03
145.0	0.04	0.00	0.03	0.00	0.03	0.03	0.00	0.03
150.0	0.05	0.00	0.02	0.00	0.03	0.05	0.00	0.01
155.0	0.06	0.02	0.06	0.01	0.07	0.06	0.02	0.06
160.0	0.06	0.03	0.05	0.03	0.07	0.08	0.01	0.06
165.0	0.04	0.05	0.06	0.05	0.07	0.06	0.00	0.07
170.0	0.07	0.06	0.06	0.03	0.08	0.08	0.03	0.08
175.0	0.07	0.05	0.05	0.04	0.08	0.07	0.03	0.08
180.0	0.06	0.03	0.02	0.00	0.08	0.03	0.03	0.05

Test System:HOPOO HPG1800 **Test Set: 5.0deg/s C-Gamma (TYPE C)**
Temperature:25.3DEG **Humidity:65.0%**
Operators: **Test Distance:8.300 m**
Test Date:2019年07月08日 **Remarks:**