HAVIT COMMERCIAL
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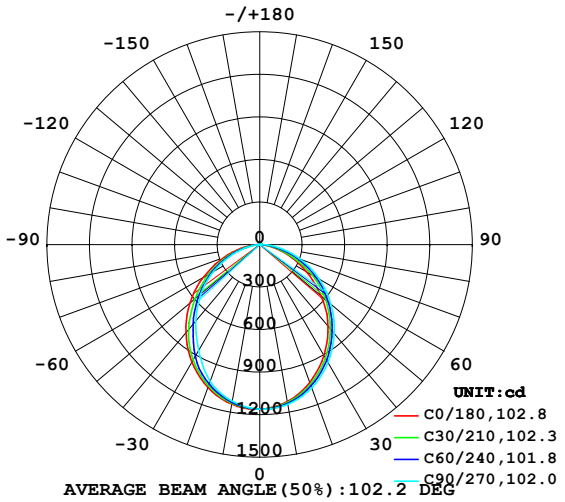
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.20V I:0.2871A P:62.736W PF:0.9924 Freq:49.99Hz Lamp Flux:2977.79x1 lm		
NAME: HCP-652130	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Havit Commercial	SUR.:	Shielding Angle:

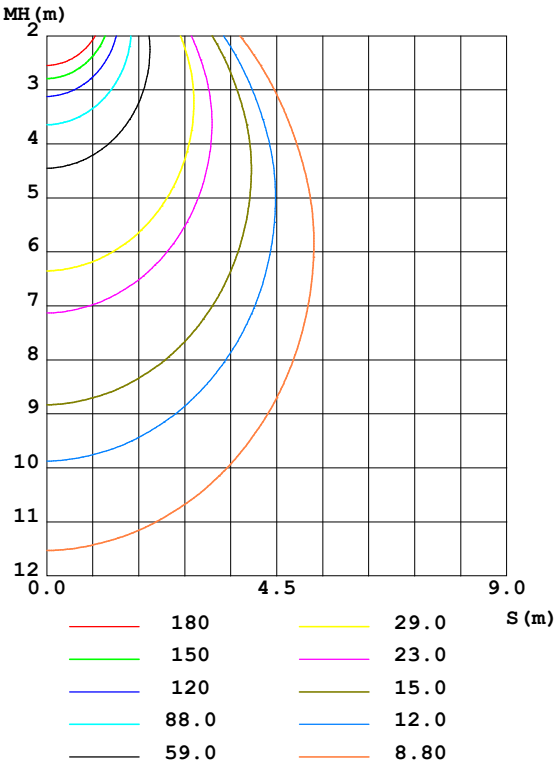
DATA OF LAMP		PHOTOMETRIC DATA		Eff: 47.47 lm/W	
MODEL		Imax(cd)	1165	S/MH(C0/180)	1.23
NOMINAL POWER(W)	65	LOR(%)	100.0	S/MH(C90/270)	1.12
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	2977.8	η UP,DN(C0-180)	0.6,51.9
NOMINAL FLUX(lm)	2977.79	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.6,46.8
LAMPS INSIDE	1	η up(%)	1.2	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	220.0	η down(%)	98.8	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):102.2 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2019-06-21

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.407.13
Humidity:65.0%
Test Distance:10.730m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1124	1133	1144	1150	1143	1133	1122	1111	0- 10	109.4	109.4	3.68,3.68
20	1035	1054	1075	1085	1072	1053	1026	1006	10- 20	309.3	418.7	14.1,14.1
30	905.7	934.1	960.9	974.1	956.9	924.8	862.2	852.8	20- 30	455.9	874.6	29.4,29.4
40	749.7	785.5	817.5	831.1	810.6	756.9	702.2	693.8	30- 40	529.6	1404	47.2,47.2
50	564.8	619.2	656.2	667.4	644.0	577.8	542.0	530.7	40- 50	528.4	1933	64.9,64.9
60	379.0	442.1	483.1	490.6	457.9	403.6	373.2	361.2	50- 60	458.3	2391	80.3,80.3
70	211.0	254.4	306.0	307.9	271.9	230.3	203.8	190.0	60- 70	330.2	2721	91.4,91.4
80	64.49	94.62	138.7	140.2	110.8	79.93	56.64	50.28	70- 80	175.4	2897	97.3,97.3
90	1.973	5.370	21.94	24.16	8.736	2.411	2.310	1.985	80- 90	44.68	2941	98.8,98.8
100	2.545	2.630	2.891	2.650	2.810	2.774	2.939	2.988	90-100	4.186	2945	98.9,98.9
110	3.706	3.760	4.063	3.674	3.836	3.880	4.086	4.285	100-110	3.525	2949	99,99
120	5.219	5.043	5.162	4.942	5.172	5.212	5.378	5.719	110-120	4.518	2953	99.2,99.2
130	6.460	6.430	6.437	6.256	6.550	6.511	6.629	6.963	120-130	5.270	2959	99.4,99.4
140	7.749	7.821	7.801	7.584	7.798	7.677	7.752	8.068	130-140	5.536	2964	99.5,99.5
150	8.782	9.015	9.054	8.848	8.879	8.779	8.866	9.117	140-150	5.242	2970	99.7,99.7
160	9.758	9.961	10.07	9.925	9.887	9.840	9.794	10.02	150-160	4.352	2974	99.9,99.9
170	10.45	10.60	10.64	10.72	10.58	10.54	10.55	10.65	160-170	2.905	2977	100,100
180	10.76	10.87	10.88	10.97	10.84	10.86	10.82	10.94	170-180	1.024	2978	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2019-06-21

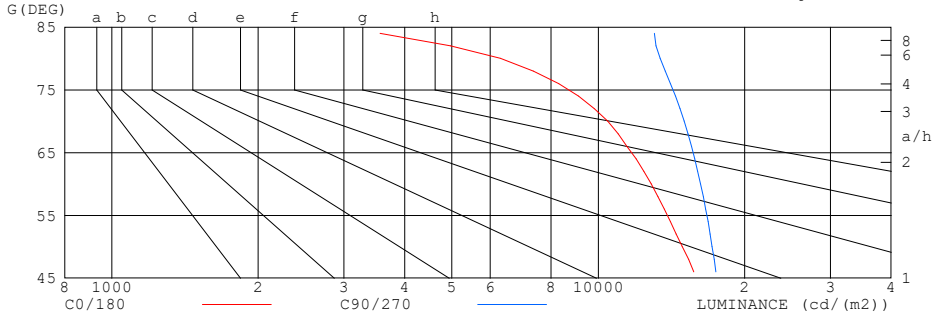
γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.407.13
Humidity:65.0%
Test Distance:10.730m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:220.20V I:0.2871A P:62.736W PF:0.9924 Freq:49.99Hz Lamp Flux:2977.79x1 lm		
NAME: HCP-652130	**TYPE:**	**WEIGHT:**
SPEC.:	**DIM.:**	**SERIAL No.:**
MFR.: AALIGHT	**SUR.:**	**Shielding Angle:**

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	4273	15641
80	6292	13413
75	9707	15346
70	10451	15027
65	12406	16381
60	12844	16229
55	14428	17232
50	14888	17148
45	16339	17927

C Range: 0 - 360DEG
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γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.407.13
Humidity:65.0%
Test Distance:10.730m [K=1.0000]
Remarks:

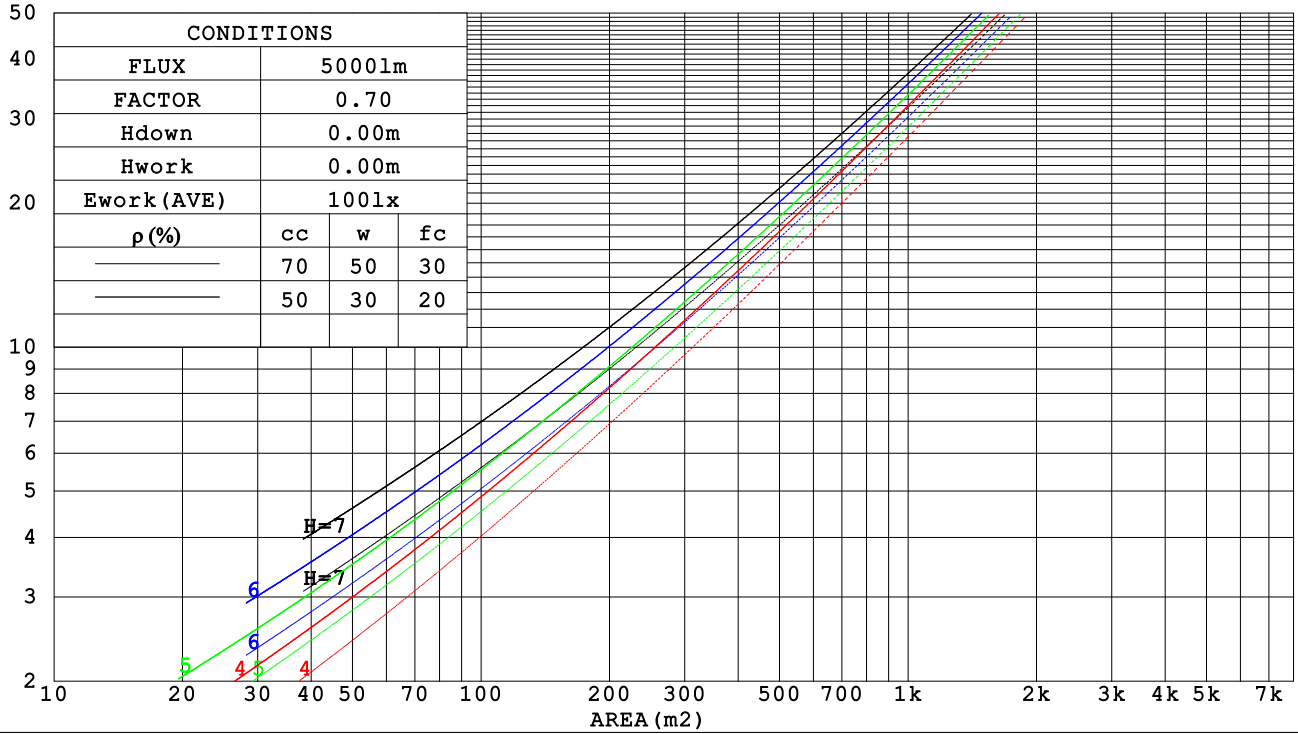
CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.20V I:0.2871A P:62.736W PF:0.9924 Freq:49.99Hz Lamp Flux:2977.79x1 lm		
NAME: HCP-652130	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Havit Commercial	SUR.:	Shielding Angle:

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	1.04	1.00	.97	1.02	.98	.95	.97	.94	.92	.93	.91	.89	.90	.88	.86	.84
2.0	.91	.85	.79	.89	.83	.78	.86	.81	.76	.82	.78	.74	.79	.76	.72	.70
3.0	.81	.73	.66	.79	.72	.66	.76	.69	.64	.73	.68	.63	.70	.66	.62	.60
4.0	.72	.63	.56	.70	.62	.56	.68	.61	.55	.65	.59	.54	.63	.58	.53	.51
5.0	.64	.55	.49	.63	.55	.49	.61	.53	.48	.59	.52	.47	.57	.51	.47	.45
6.0	.58	.49	.43	.57	.49	.43	.55	.48	.42	.53	.47	.42	.52	.46	.41	.39
7.0	.53	.44	.38	.52	.44	.38	.50	.43	.37	.49	.42	.37	.47	.41	.37	.35
8.0	.48	.40	.34	.47	.39	.34	.46	.39	.34	.45	.38	.33	.43	.37	.33	.31
9.0	.44	.36	.31	.44	.36	.31	.42	.35	.30	.41	.35	.30	.40	.34	.30	.28
10.0	.41	.33	.28	.40	.33	.28	.39	.32	.28	.38	.32	.27	.37	.31	.27	.25

LAMPS

LUMINAIRE BUDGETARY DIAGRAM



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2019-06-21

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.407.13
Humidity:65.0%
Test Distance:10.730m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:220.20V I:0.2871A P:62.736W PF:0.9924 Freq:49.99Hz Lamp Flux:2977.79x1 lm		
NAME: HCP-652130	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Havit Commercial	SUR.:	Shielding Angle:

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	.295	.168	.053	.288	.164	.052	.274	.157	.050	.261	.151	.048	.250	.145	.047	
2.0	.280	.153	.047	.273	.151	.046	.261	.145	.045	.250	.140	.044	.239	.135	.043	
3.0	.260	.139	.041	.255	.136	.041	.244	.132	.040	.234	.128	.039	.224	.124	.038	
4.0	.241	.125	.037	.236	.124	.037	.227	.120	.036	.218	.117	.035	.209	.114	.035	
5.0	.224	.114	.033	.219	.113	.033	.211	.110	.032	.203	.107	.032	.195	.104	.031	
6.0	.208	.104	.030	.204	.103	.030	.196	.101	.029	.189	.098	.029	.183	.096	.029	
7.0	.194	.096	.027	.190	.095	.027	.184	.093	.027	.177	.091	.026	.171	.089	.026	
8.0	.182	.089	.025	.178	.088	.025	.172	.086	.025	.166	.084	.024	.161	.083	.024	
9.0	.170	.082	.023	.168	.082	.023	.162	.080	.023	.157	.079	.022	.152	.077	.022	
10.0	.161	.077	.021	.158	.076	.021	.153	.075	.021	.148	.074	.021	.144	.072	.021	

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	.200	.200	.200	.171	.171	.171	.117	.117	.117	.067	.067	.067	.021	.021	.021	
1.0	.189	.166	.145	.161	.142	.125	.110	.098	.086	.064	.057	.050	.020	.018	.016	
2.0	.180	.141	.109	.154	.122	.094	.106	.084	.066	.061	.049	.039	.020	.016	.013	
3.0	.172	.124	.085	.148	.107	.074	.101	.074	.052	.059	.043	.031	.019	.014	.010	
4.0	.164	.110	.069	.141	.095	.060	.097	.066	.042	.056	.039	.025	.018	.013	.008	
5.0	.157	.100	.058	.135	.086	.050	.093	.060	.035	.054	.035	.021	.017	.012	.007	
6.0	.150	.092	.050	.129	.079	.043	.089	.055	.031	.052	.033	.018	.017	.011	.006	
7.0	.143	.085	.044	.123	.073	.038	.085	.051	.027	.049	.030	.016	.016	.010	.005	
8.0	.137	.079	.039	.118	.068	.034	.082	.048	.024	.047	.028	.014	.015	.009	.005	
9.0	.131	.074	.035	.113	.064	.031	.078	.045	.022	.046	.027	.013	.015	.009	.004	
10.0	.125	.070	.032	.108	.060	.028	.075	.043	.020	.044	.025	.012	.014	.008	.004	

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2019-06-21

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.407.13
Humidity:65.0%
Test Distance:10.730m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.20V I:0.2871A P:62.736W PF:0.9924 Freq:49.99Hz Lamp Flux:2977.79x1 lm		
NAME: HCP-652130	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Havit Commercial	SUR.:	Shielding Angle:

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	21.9	23.4	22.2	23.6	23.8	22.7	24.1	22.9	24.4	24.6
3H	23.0	24.4	23.4	24.6	24.9	24.2	25.6	24.5	25.8	26.1
4H	23.4	24.7	23.7	25.0	25.2	24.8	26.1	25.2	26.4	26.7
6H	23.6	24.8	23.9	25.1	25.4	25.3	26.5	25.7	26.8	27.1
8H	23.6	24.8	24.0	25.1	25.4	25.5	26.6	25.8	26.9	27.3
12H	23.6	24.7	23.9	25.0	25.3	25.6	26.7	26.0	27.0	27.4
4H 2H	22.6	23.8	22.9	24.1	24.4	23.1	24.4	23.5	24.7	25.0
3H	23.8	25.0	24.2	25.3	25.6	24.9	26.0	25.2	26.3	26.6
4H	24.3	25.3	24.7	25.7	26.0	25.6	26.6	26.0	27.0	27.3
6H	24.6	25.5	25.0	25.9	26.2	26.2	27.1	26.6	27.5	27.9
8H	24.6	25.5	25.0	25.8	26.3	26.4	27.3	26.9	27.7	28.1
12H	24.6	25.4	25.1	25.8	26.2	26.6	27.4	27.0	27.8	28.2
8H 4H	24.6	25.4	25.0	25.8	26.2	25.8	26.6	26.2	27.0	27.4
6H	25.0	25.7	25.4	26.1	26.5	26.5	27.2	26.9	27.6	28.0
8H	25.0	25.7	25.5	26.1	26.6	26.8	27.4	27.2	27.8	28.3
12H	25.1	25.6	25.6	26.1	26.6	27.0	27.5	27.5	28.0	28.5
12H 4H	24.6	25.4	25.0	25.8	26.2	25.7	26.5	26.2	26.9	27.3
6H	25.0	25.6	25.5	26.1	26.6	26.5	27.1	27.0	27.5	28.0
8H	25.1	25.7	25.6	26.1	26.6	26.8	27.3	27.3	27.8	28.3

Variations with the observer position at spacings:		
S = 1.0H	+ 0.2 / - 0.3	+ 0.2 / - 0.2
1.5H	+ 0.2 / - 0.4	+ 0.1 / - 0.3
2.0H	+ 0.3 / - 0.5	+ 0.2 / - 0.3

CIE Pub.117, 2978 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 3.8)
Area: 0.0595 m2

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2019-06-21

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.407.13
Humidity:65.0%
Test Distance:10.730m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.20V I:0.2871A P:62.736W PF:0.9924 Freq:49.99Hz Lamp Flux:2977.79x1 lm		
NAME: HCP-652130	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Havit Commercial	SUR.:	Shielding Angle:

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	59	48	41	58	47	41	57	47	41	34
0.80	69	58	51	68	57	50	66	56	50	43
1.00	77	67	59	76	66	59	74	67	59	52
1.25	84	74	67	83	73	67	80	72	66	59
1.50	89	80	73	87	79	72	84	77	71	64
2.00	96	88	81	94	86	81	90	84	79	71
2.50	99	92	86	97	91	85	93	88	83	75
3.00	103	96	91	101	95	90	96	91	87	79
4.00	107	101	97	104	99	95	100	96	92	83
5.00	109	104	100	106	102	99	102	98	95	86
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended					SHRNOM = 1.25	

C Range: 0 - 360DEG
C Interval: 30.0DEG
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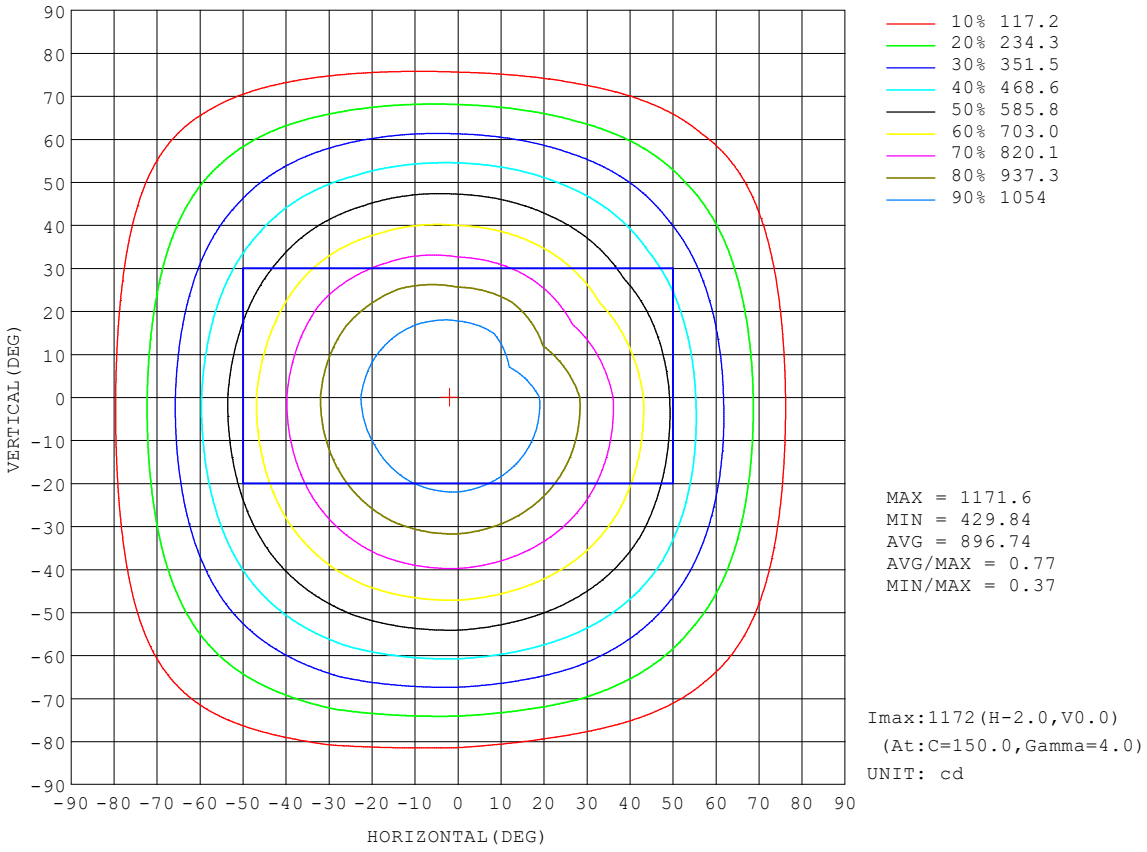
Temperature:25.3DEG
Operators:DAMIN
Test Date:2019-06-21

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.407.13
Humidity:65.0%
Test Distance:10.730m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:220.20V I:0.2871A P:62.736W PF:0.9924 Freq:49.99Hz Lamp Flux:2977.79x1 lm		
NAME: HCP-652130	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: AALIGHT	SUR.:	Shielding Angle:



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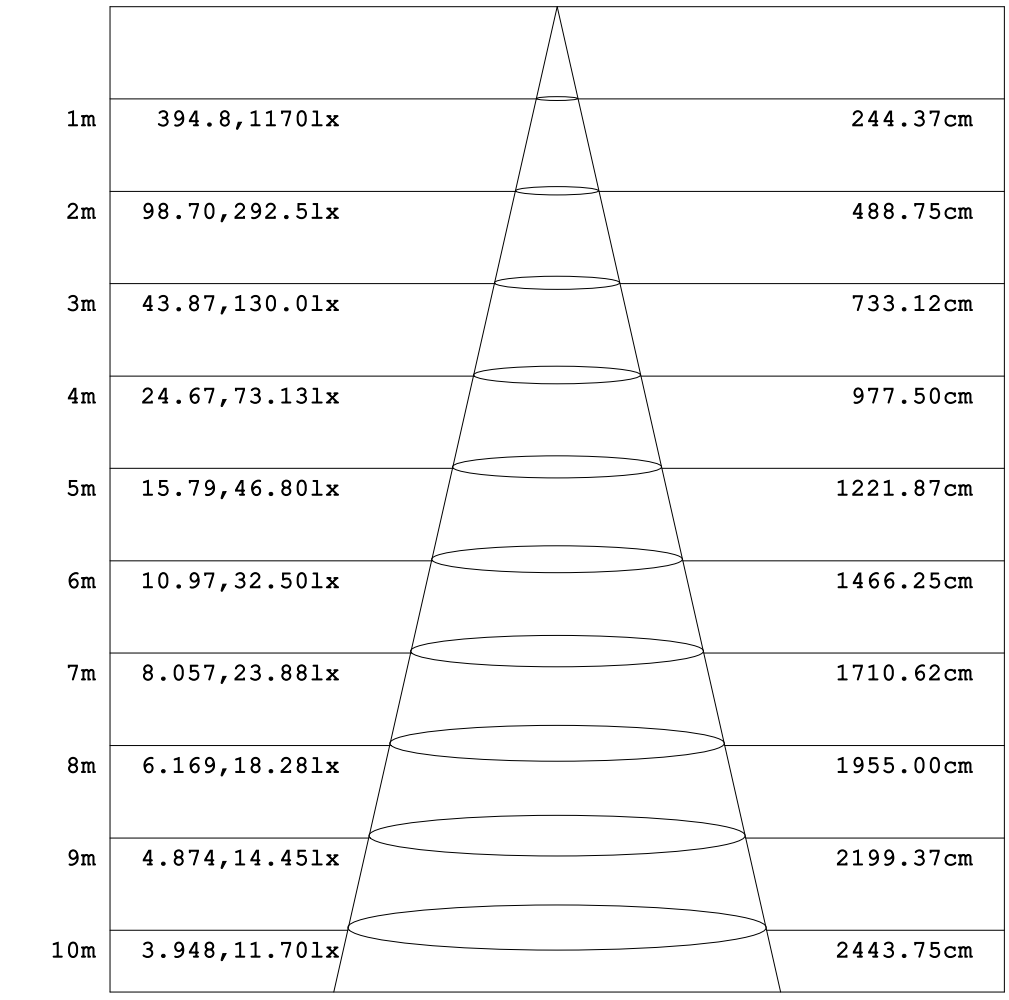
Remarks:

AAI Figure

Test:U:220.20V I:0.2871A P:62.736W PF:0.9924 Freq:49.99Hz Lamp Flux:2977.79x1 lm		
NAME: HCP-652130	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Havit Commercial	SUR.:	Shielding Angle:

Flux out:2032 lm



Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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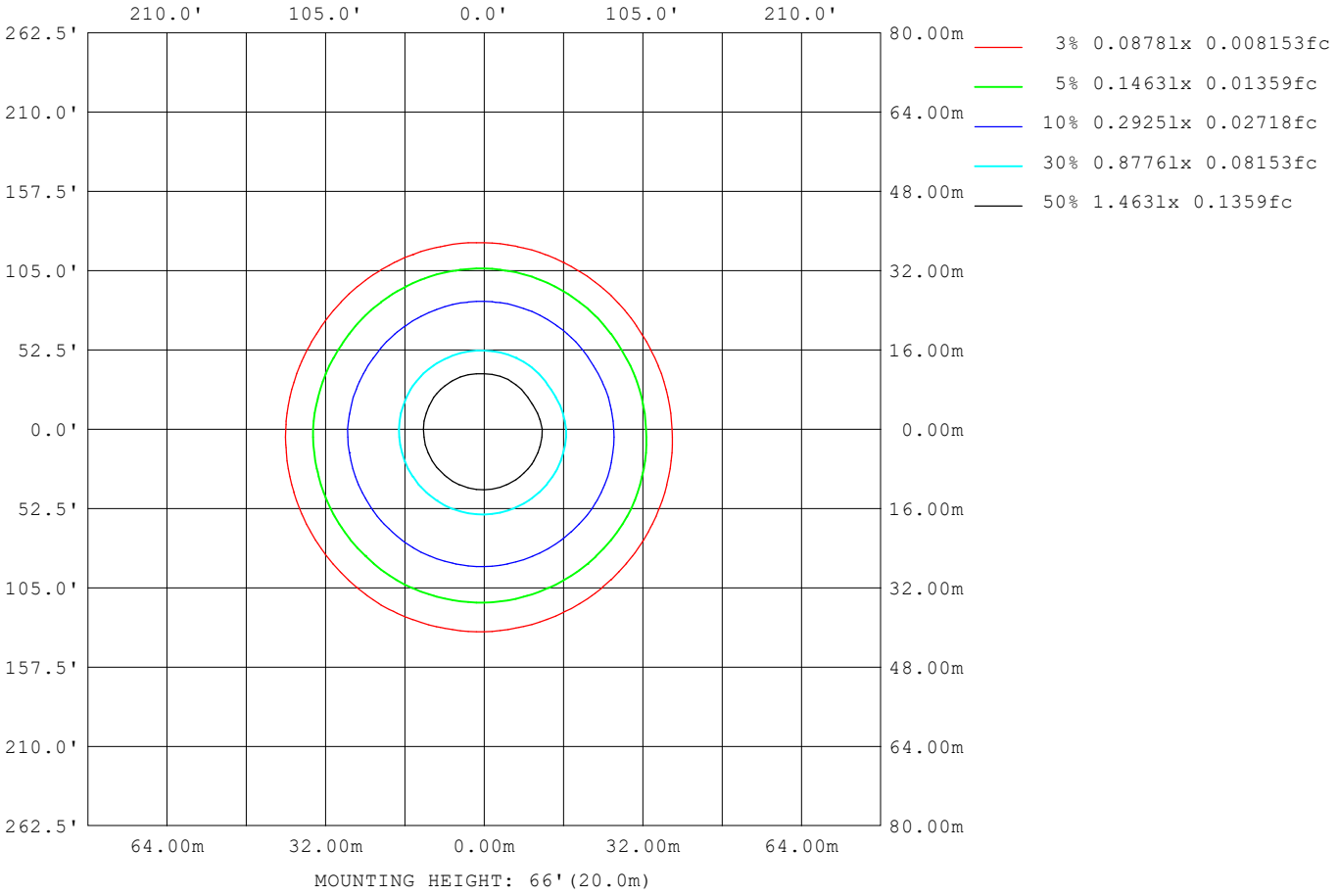
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.407.13
Humidity:65.0%
Test Distance:10.730m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:220.20V I:0.2871A P:62.736W PF:0.9924 Freq:49.99Hz Lamp Flux:2977.79x1 lm		
NAME: HCP-652130	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Havit Commercial	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2019-06-21

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.407.13
Humidity:65.0%
Test Distance:10.730m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:220.20V I:0.2871A P:62.736W PF:0.9924 Freq:49.99Hz Lamp Flux:2977.79x1 lm		
NAME: HCP-652130	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Havit Commercial	SUR.:	Shielding Angle:

AvgL	cd/m2
L_0~180(65)av	13011
L_0~180(75)av	10401
L_0~180(85)av	5945
L_90~270(65)av	13511
L_90~270(75)av	11206
L_90~270(85)av	8146
L_45(65)av	13233
L_45(75)av	10651
L_45(85)av	6857

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
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Test Date:2019-06-21

γ Range: 0 - 180DEG
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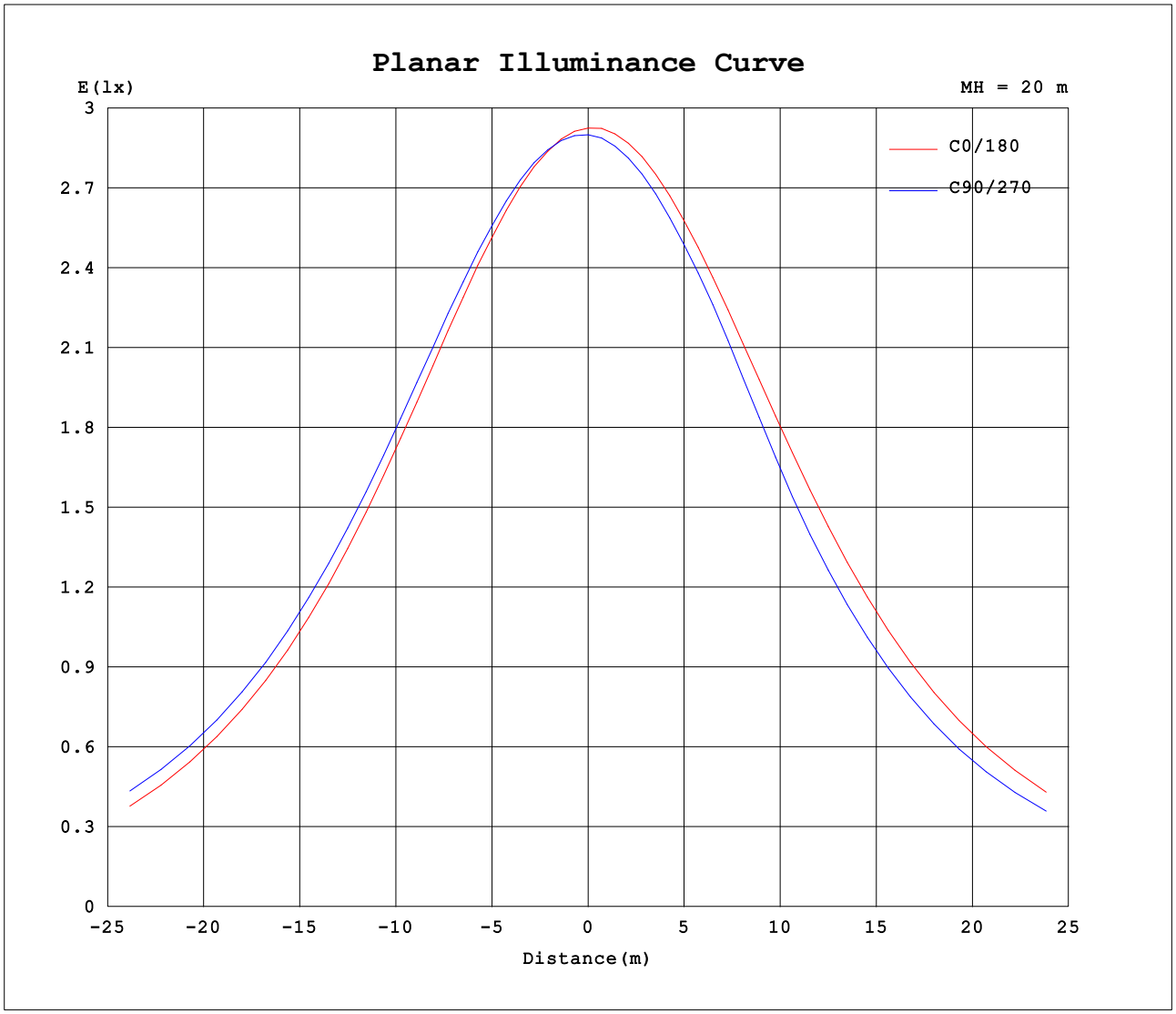
Humidity:65.0%
Test Distance:10.730m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2019-06-21

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.407.13
Humidity:65.0%
Test Distance:10.730m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.20V I:0.2871A P:62.736W PF:0.9924 Freq:49.99Hz Lamp Flux:2977.79x1 lm		
NAME: HCP-652130	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Havit Commercial	SUR.:	Shielding Angle:

Table--1 UNIT: cd

γ (DEG) \ C(DEG)	0	30	60	90	120	150	180	210	240	270	300	330
0	1161	1161	1161	1161	1161	1161	1161	1161	1161	1161	1161	1161
5	1152	1155	1158	1161	1162	1165	1160	1158	1156	1152	1150	1146
10	1124	1130	1137	1144	1148	1153	1143	1137	1130	1122	1118	1104
15	1093	1103	1112	1122	1127	1133	1120	1112	1102	1091	1086	1065
20	1035	1048	1061	1075	1081	1088	1072	1059	1046	1026	1022	990
25	986	1002	1018	1034	1041	1049	1031	1016	999	965	962	933
30	906	925	943	961	971	977	957	940	909	862	858	847
35	846	868	887	907	917	923	901	883	837	797	792	788
40	750	775	796	818	829	833	811	782	731	702	695	693
45	682	710	732	755	766	769	746	708	663	637	627	626
50	565	607	631	656	667	668	644	595	560	542	529	532
55	488	537	562	588	599	597	573	522	491	477	465	466
60	379	427	457	483	495	486	458	415	392	373	361	361
65	309	342	385	412	422	410	381	344	323	302	290	292
70	211	230	279	306	316	299	272	241	220	204	191	189
75	148	165	210	236	247	229	204	175	158	141	130	128
80	64.5	81.1	108	139	148	132	111	88.0	71.8	56.6	50.7	49.9
85	22.0	34.2	55.0	81.2	88.9	75.9	57.9	39.0	26.3	21.6	21.4	18.7
90	1.97	2.26	8.48	21.9	27.0	21.3	8.74	2.53	2.29	2.31	1.93	2.04
95	1.98	2.01	2.27	5.56	8.25	5.24	2.36	2.12	2.19	2.25	2.20	2.25
100	2.54	2.54	2.72	2.89	2.63	2.67	2.81	2.62	2.92	2.94	3.00	2.98
105	3.04	2.98	3.06	3.46	2.96	3.01	3.23	3.10	3.34	3.42	3.54	3.53
110	3.71	3.81	3.71	4.06	3.62	3.73	3.84	3.71	4.05	4.09	4.24	4.33
115	4.37	4.30	4.17	4.51	4.11	4.20	4.30	4.21	4.58	4.64	4.74	4.93
120	5.22	5.13	4.96	5.16	4.92	4.96	5.17	5.07	5.35	5.38	5.63	5.80
125	5.72	5.70	5.48	5.67	5.43	5.49	5.74	5.64	5.85	5.93	6.13	6.31
130	6.46	6.55	6.31	6.44	6.26	6.25	6.55	6.46	6.56	6.63	6.83	7.09
135	6.98	7.12	6.89	6.96	6.85	6.75	7.06	6.96	7.04	7.10	7.32	7.56
140	7.75	7.90	7.74	7.80	7.66	7.51	7.80	7.64	7.72	7.75	8.04	8.10
145	8.17	8.38	8.27	8.31	8.14	8.07	8.26	8.08	8.16	8.20	8.56	8.50
150	8.78	9.03	9.00	9.05	8.89	8.81	8.88	8.77	8.79	8.87	9.15	9.09
155	9.19	9.39	9.42	9.51	9.36	9.23	9.30	9.19	9.24	9.20	9.53	9.48
160	9.76	9.94	9.98	10.1	9.97	9.88	9.89	9.81	9.87	9.79	10.02	10.02
165	10.1	10.3	10.1	10.4	10.2	10.3	10.2	10.1	10.2	10.2	10.4	10.3
170	10.4	10.6	10.6	10.6	10.7	10.7	10.6	10.5	10.6	10.5	10.7	10.5
175	10.6	10.7	10.7	10.8	10.8	10.9	10.8	10.7	10.8	10.7	10.9	10.6
180	10.8	10.9	10.8	10.9	11.0	11.0	10.8	10.8	10.9	10.8	11.0	10.9

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