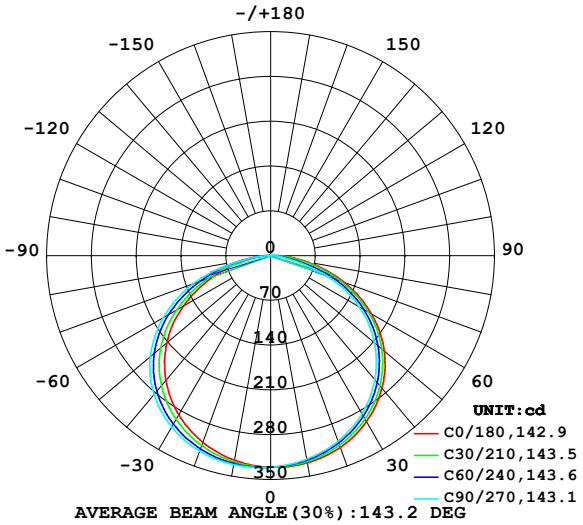
LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: HCP-3426251-1M RGBW	TYPE: 2835-2216RGB	WEIGHT:
SPEC.:	DIM.: 1* 0.012	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:

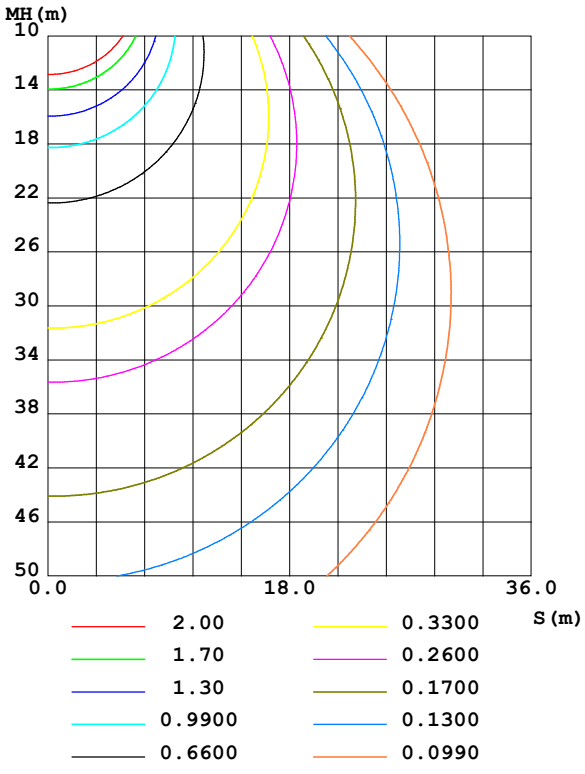
DATA OF LAMP		PHOTOMETRIC DATA		Eff: 50.77 lm/W	
MODEL	HCP-342251	Imax(cd)	332.7	S/MH(C0/180)	1.29
NOMINAL POWER(W)	20	LOR(%)	100.0	S/MH(C90/270)	1.39
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	1066.1	η UP,DN(C0-180)	0.2,47.8
NOMINAL FLUX(lm)	1066.11	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.2,51.8
LAMPS INSIDE	1	η up(%)	0.4	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	24	η down(%)	99.6	CIBSE SHR MAX	1.50

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(30%):143.2 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JING
Test Date:2022-05-18

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [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	328.9	325.7	323.0	322.4	324.8	328.6	331.7	331.8	0- 10	31.40	31.40	2.95,2.95
20	318.8	313.2	308.5	306.7	310.4	318.6	324.9	324.9	10- 20	91.14	122.5	11.5,11.5
30	299.6	292.5	285.5	283.0	287.2	299.8	309.4	309.3	20- 30	141.6	264.2	24.8,24.8
40	270.6	262.5	253.5	250.4	254.8	271.2	283.7	284.2	30- 40	176.8	441.0	41.4,41.4
50	231.9	222.8	211.8	207.9	212.1	231.0	245.6	248.1	40- 50	191.3	632.3	59.3,59.3
60	182.2	172.3	159.8	154.3	157.1	176.9	193.9	198.6	50- 60	180.6	812.9	76.2,76.2
70	122.3	111.4	93.26	91.00	94.60	110.9	128.9	136.2	60- 70	142.5	955.4	89.6,89.6
80	59.53	44.44	26.06	31.13	35.78	44.69	49.68	68.03	70- 80	82.03	1037	97.3,97.3
90	13.09	7.053	1.255	2.365	2.865	3.377	0.1147	13.77	80- 90	24.55	1062	99.6,99.6
100	1.110	0.3999	0.2011	0.2067	0.1954	0.1939	0.1310	0.6452	90-100	2.162	1064	99.8,99.8
110	0.2071	0.2331	0.2769	0.2707	0.2568	0.2346	0.2069	0.2213	100-110	0.2572	1064	99.8,99.8
120	0.2741	0.3089	0.3556	0.3625	0.3356	0.3147	0.2941	0.2853	110-120	0.2741	1065	99.9,99.9
130	0.3588	0.3934	0.4342	0.4280	0.4231	0.4021	0.3612	0.3683	120-130	0.3208	1065	99.9,99.9
140	0.4375	0.4647	0.5070	0.5007	0.4989	0.4764	0.4428	0.4498	130-140	0.3357	1065	99.9,99.9
150	0.5046	0.5303	0.5624	0.5575	0.5631	0.5377	0.5070	0.5139	140-150	0.3167	1066	100,100
160	0.5776	0.5930	0.6207	0.6070	0.6156	0.5886	0.5768	0.5793	150-160	0.2602	1066	100,100
170	0.6300	0.6323	0.6352	0.6317	0.6505	0.6280	0.6176	0.6216	160-170	0.1731	1066	100,100
180	0.6388	0.6338	0.6352	0.6361	0.6505	0.6309	0.6323	0.6361	170-180	0.0604	1066	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

0 - 60 DEG Zonal Flux:812.89 %lum: 76.2%
0 - 60 DEG Zonal Flux:812.89 %lum: 76.2%
All measured values may vary less than 35 %
from the average measured value in the 0 to 130 deg. zone: 12.9%
All measured values in the 0 to 130 deg. zone
may vary less than 50% from the average value of itself: 19.0%

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JING
Test Date:2022-05-18

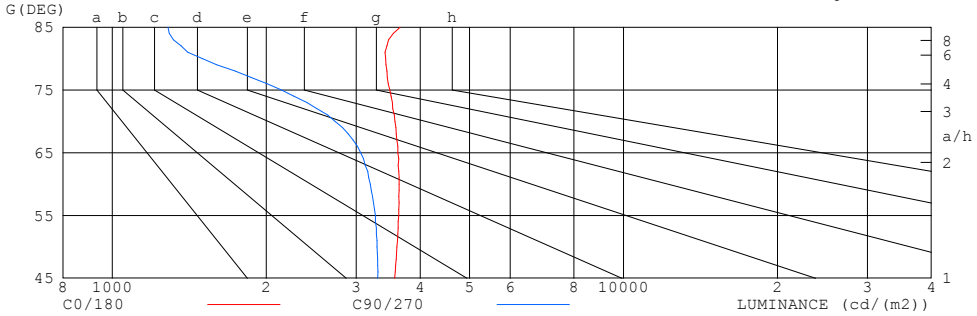
γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

NAME: HCP-3426251-1M RGBW	**TYPE: 2835-2216RGB**	**WEIGHT:**
SPEC.:	**DIM.: 1* 0.012**	**SERIAL No.:**
MFR.: HAVIT COMMERCIAL	**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	3656	1285
80	3424	1501
75	3487	2144
70	3572	2727
65	3620	3060
60	3639	3195
55	3631	3271
50	3603	3295
45	3567	3305

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Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
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Remarks:

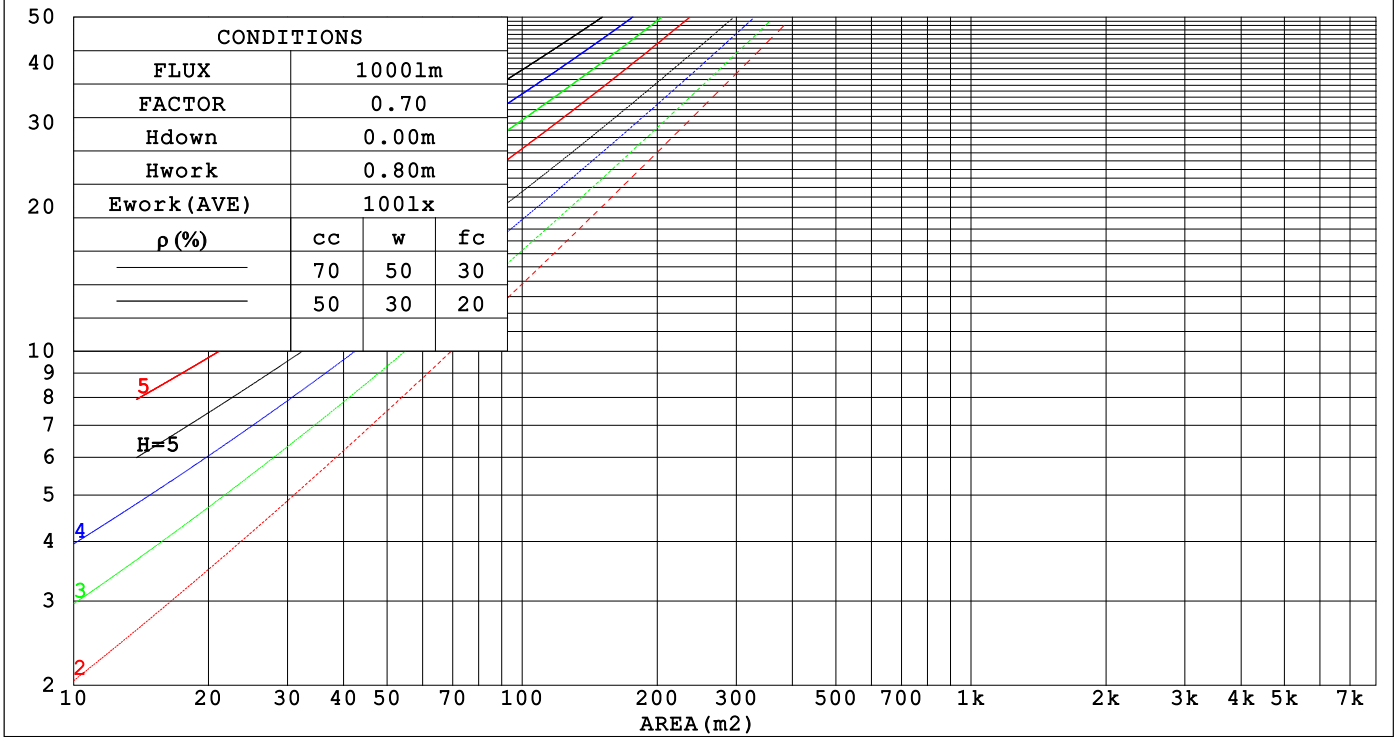
CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: HCP-3426251-1M RGBW	TYPE: 2835-2216RGB	WEIGHT:
SPEC.:	DIM.: 1* 0.012	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	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.03	.99	.95	1.01	.97	.93	.96	.93	.90	.92	.90	.87	.89	.87	.84	.82
2.0	.89	.82	.76	.87	.81	.75	.84	.78	.73	.80	.76	.72	.77	.73	.70	.68
3.0	.78	.69	.63	.76	.68	.62	.73	.67	.61	.70	.65	.60	.68	.63	.59	.56
4.0	.69	.60	.53	.67	.59	.52	.65	.57	.52	.62	.56	.51	.60	.55	.50	.48
5.0	.61	.52	.45	.60	.51	.45	.58	.50	.44	.56	.49	.44	.54	.48	.43	.41
6.0	.55	.46	.39	.54	.45	.39	.52	.44	.38	.50	.43	.38	.49	.42	.38	.36
7.0	.50	.41	.34	.49	.40	.34	.47	.39	.34	.46	.39	.34	.44	.38	.33	.31
8.0	.45	.36	.30	.44	.36	.30	.43	.35	.30	.42	.35	.30	.41	.34	.30	.28
9.0	.41	.33	.27	.41	.33	.27	.40	.32	.27	.38	.32	.27	.37	.31	.27	.25
10.0	.38	.30	.25	.38	.30	.25	.36	.29	.24	.36	.29	.24	.35	.29	.24	.22

LAMPS

LUMINAIRE BUDGETARY DIAGRAM



C Range: 0 - 360DEG
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Test Date:2022-05-18

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

WEC AND CCEC

NAME: HCP-3426251-1M RGBW	TYPE: 2835-2216RGB	WEIGHT:
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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	.323	.183	.058	.315	.180	.057	.302	.173	.055	.289	.167	.054	.278	.161	.052	
2.0	.302	.165	.051	.295	.163	.050	.283	.158	.049	.272	.153	.048	.262	.148	.047	
3.0	.278	.148	.044	.273	.146	.044	.262	.142	.043	.252	.138	.042	.243	.135	.042	
4.0	.256	.133	.039	.251	.131	.039	.242	.128	.038	.233	.125	.038	.225	.122	.037	
5.0	.236	.120	.035	.232	.119	.035	.223	.116	.034	.215	.114	.034	.208	.111	.033	
6.0	.218	.110	.031	.214	.108	.031	.207	.106	.031	.200	.104	.031	.193	.102	.030	
7.0	.203	.100	.028	.199	.099	.028	.193	.097	.028	.186	.096	.028	.181	.094	.028	
8.0	.189	.092	.026	.186	.092	.026	.180	.090	.026	.174	.088	.025	.169	.087	.025	
9.0	.177	.086	.024	.174	.085	.024	.169	.083	.024	.164	.082	.023	.159	.081	.023	
10.0	.166	.080	.022	.164	.079	.022	.159	.078	.022	.154	.077	.022	.150	.075	.022	

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	.193	.193	.193	.165	.165	.165	.113	.113	.113	.065	.065	.065	.021	.021	.021	
1.0	.184	.159	.136	.158	.136	.117	.108	.094	.081	.062	.054	.047	.020	.017	.015	
2.0	.177	.135	.100	.151	.116	.086	.104	.080	.060	.060	.047	.035	.019	.015	.011	
3.0	.169	.117	.076	.145	.101	.066	.100	.070	.046	.057	.041	.027	.018	.013	.009	
4.0	.162	.104	.060	.139	.090	.052	.095	.063	.037	.055	.037	.022	.018	.012	.007	
5.0	.154	.094	.049	.132	.081	.043	.091	.057	.030	.053	.033	.018	.017	.011	.006	
6.0	.147	.086	.042	.126	.074	.036	.087	.052	.026	.051	.031	.015	.016	.010	.005	
7.0	.140	.079	.036	.120	.068	.031	.083	.048	.022	.048	.028	.013	.016	.009	.004	
8.0	.133	.073	.031	.115	.063	.027	.080	.044	.019	.046	.026	.012	.015	.009	.004	
9.0	.127	.068	.028	.110	.059	.024	.076	.041	.017	.044	.024	.010	.014	.008	.003	
10.0	.122	.064	.025	.105	.055	.022	.073	.039	.016	.042	.023	.009	.014	.008	.003	

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JING
Test Date:2022-05-18

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

NAME: HCP-3426251-1M RGBW	TYPE: 2835-2216RGB	WEIGHT:
SPEC.:	DIM.: 1* 0.012	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	17.3	18.8	17.6	19.0	19.3	16.8	18.4	17.1	18.6	18.8
3H	19.1	20.5	19.4	20.7	21.0	18.3	19.7	18.6	20.0	20.2
4H	19.8	21.2	20.1	21.4	21.7	18.7	20.1	19.0	20.3	20.6
6H	20.4	21.7	20.7	22.0	22.3	18.9	20.2	19.2	20.5	20.8
8H	20.6	21.9	21.0	22.2	22.5	18.9	20.2	19.3	20.5	20.8
12H	20.8	22.0	21.2	22.3	22.6	18.9	20.1	19.3	20.4	20.8
4H 2H	17.9	19.3	18.2	19.5	19.8	17.5	18.9	17.9	19.2	19.4
3H	19.9	21.1	20.2	21.4	21.7	19.2	20.4	19.5	20.7	21.0
4H	20.7	21.8	21.1	22.2	22.5	19.7	20.8	20.1	21.2	21.5
6H	21.5	22.5	21.9	22.8	23.2	20.0	21.0	20.4	21.3	21.7
8H	21.8	22.7	22.2	23.1	23.5	20.1	21.0	20.5	21.4	21.8
12H	22.0	22.9	22.5	23.3	23.7	20.1	20.9	20.5	21.3	21.8
8H 4H	21.0	21.9	21.4	22.3	22.7	20.1	21.0	20.5	21.4	21.8
6H	21.9	22.6	22.3	23.1	23.5	20.5	21.2	20.9	21.6	22.1
8H	22.3	23.0	22.8	23.4	23.9	20.6	21.3	21.0	21.7	22.2
12H	22.7	23.2	23.1	23.7	24.2	20.7	21.2	21.2	21.7	22.2
12H 4H	21.0	21.8	21.4	22.2	22.6	20.1	20.9	20.5	21.3	21.8
6H	21.9	22.6	22.4	23.0	23.5	20.6	21.2	21.0	21.7	22.1
8H	22.4	22.9	22.8	23.4	23.9	20.7	21.3	21.2	21.7	22.2
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.1 / - 0.2					+ 0.2 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.4				
2.0H	+ 0.1 / - 0.3					+ 0.2 / - 0.5				

CIE Pub.117, 1066 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.2)
Area: 0.1 m2

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
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γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

NAME: HCP-3426251-1M RGBW	TYPE: 2835-2216RGB	WEIGHT:
SPEC.:	DIM.: 1* 0.012	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	56	44	36	55	43	36	54	43	36	30
0.80	66	54	46	65	53	46	63	52	45	38
1.00	74	63	55	73	62	55	71	64	54	47
1.25	81	71	63	80	70	63	77	68	62	54
1.50	87	76	69	85	75	68	82	74	67	60
2.00	94	85	78	92	84	77	88	81	76	68
2.50	98	90	83	96	88	82	92	86	81	72
3.00	101	94	88	99	92	87	95	90	85	76
4.00	105	99	95	103	98	93	99	94	90	81
5.00	108	103	99	106	101	97	101	97	94	85
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended					SHRNOM = 1.25	

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Test Distance:6.070m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

NAME: HCP-3426251-1M RGBW	TYPE: 2835-2216RGB	WEIGHT:
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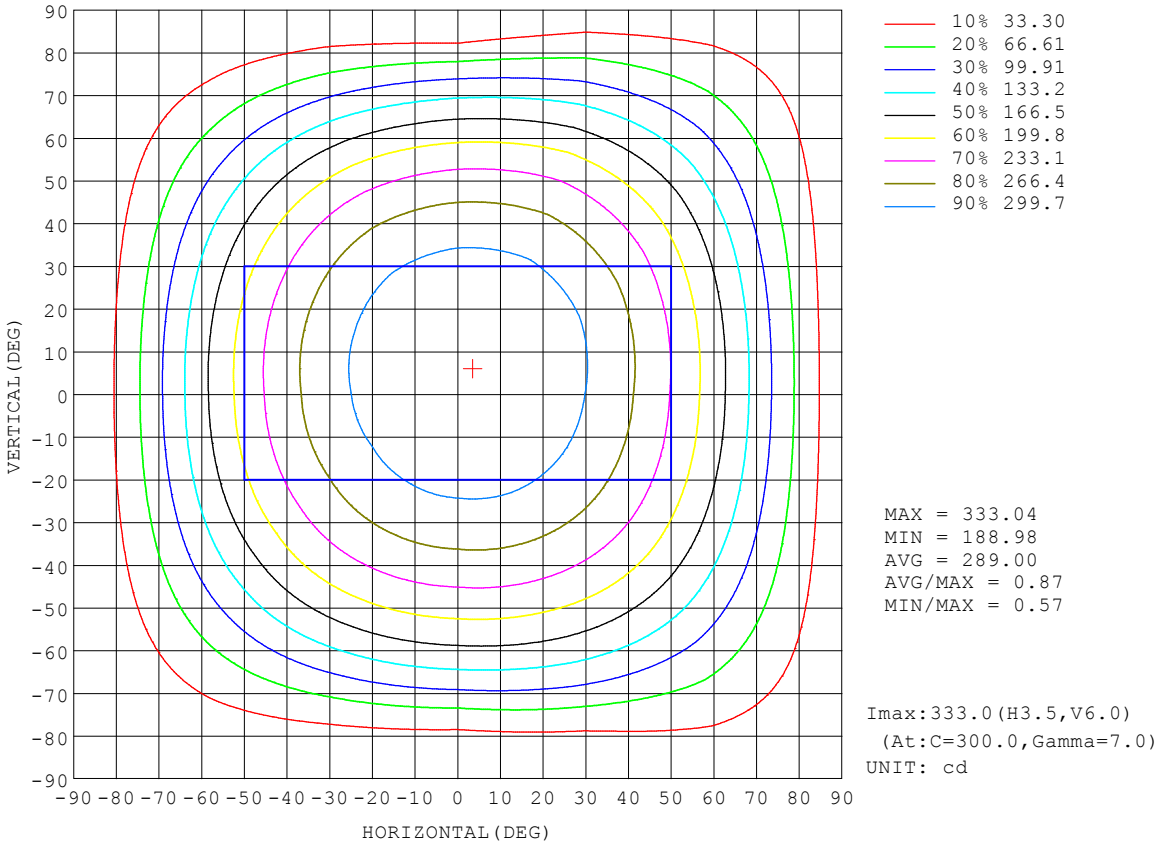
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:



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AAI Figure

NAME: HCP-3426251-1M RGBW	TYPE: 2835-2216RGB	WEIGHT:
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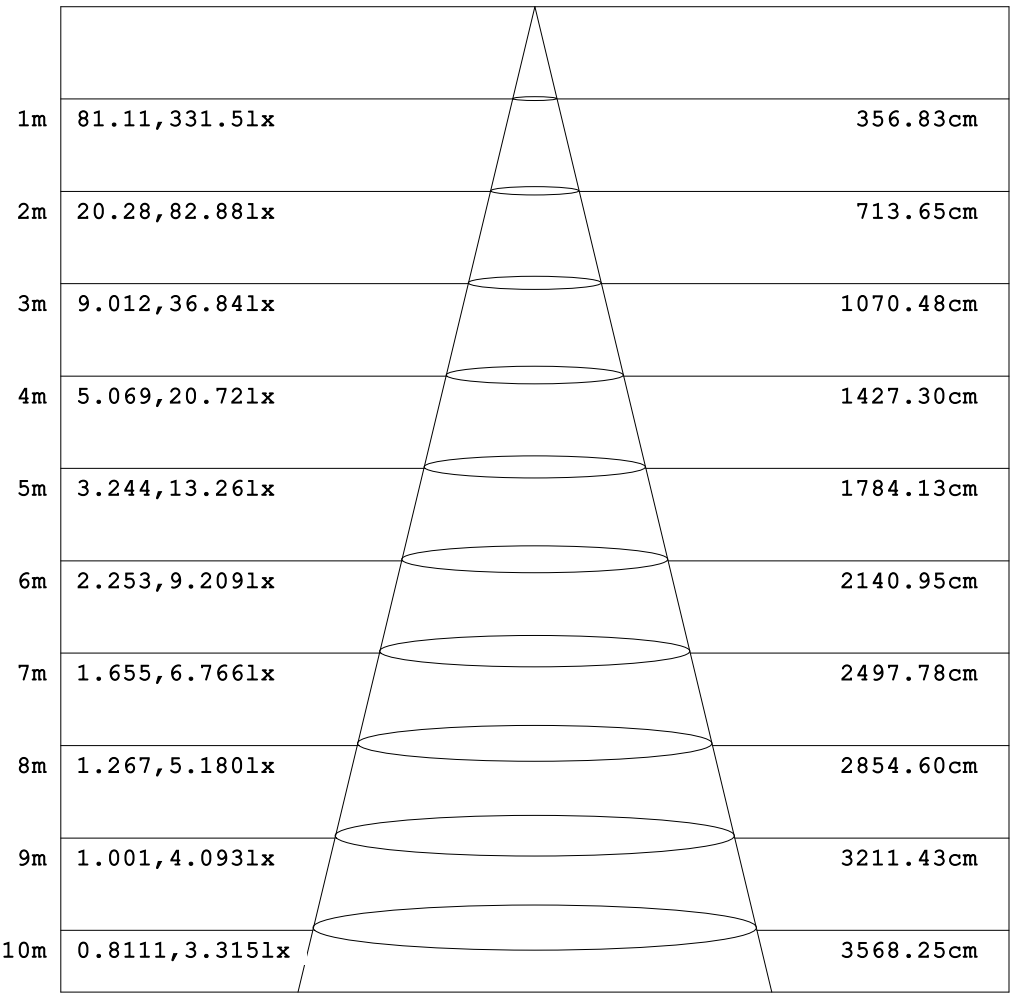
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:

Flux out:829.3 lm



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

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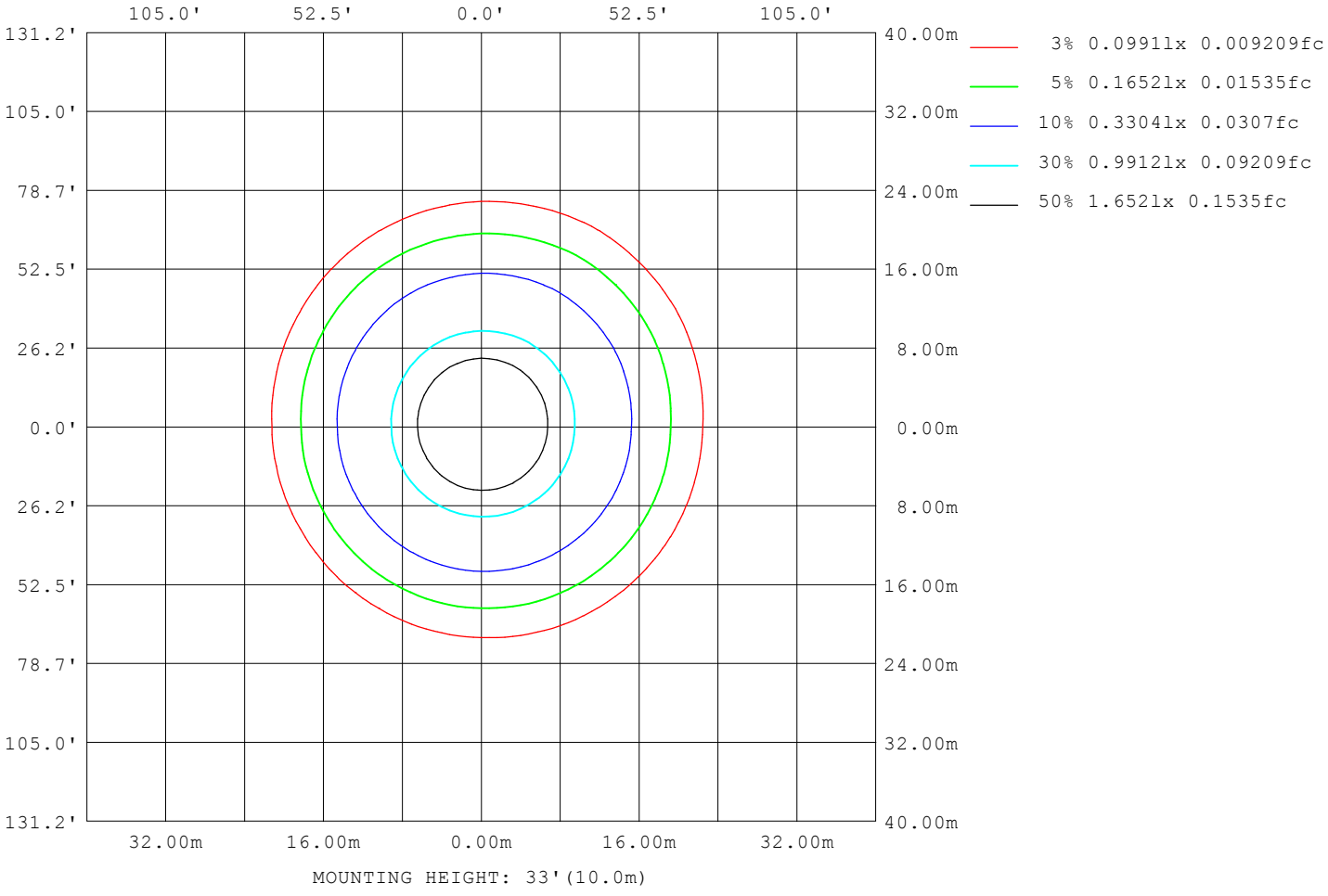
NAME: HCP-3426251-1M RGBW	TYPE: 2835-2216RGB	WEIGHT:
SPEC.:	DIM.: 1* 0.012	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JING
Test Date:2022-05-18

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

LED Avg.L Report

NAME: HCP-3426251-1M RGBW	TYPE: 2835-2216RGB	WEIGHT:
SPEC.:	DIM.: 1* 0.012	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:

AvgL	cd/m2
L_0~180(65)av	3311
L_0~180(75)av	2969
L_0~180(85)av	2670
L_90~270(65)av	3456
L_90~270(75)av	2819
L_90~270(85)av	1596
L_45(65)av	3438
L_45(75)av	3057
L_45(85)av	2620

Standard: GB/T 29293-2012

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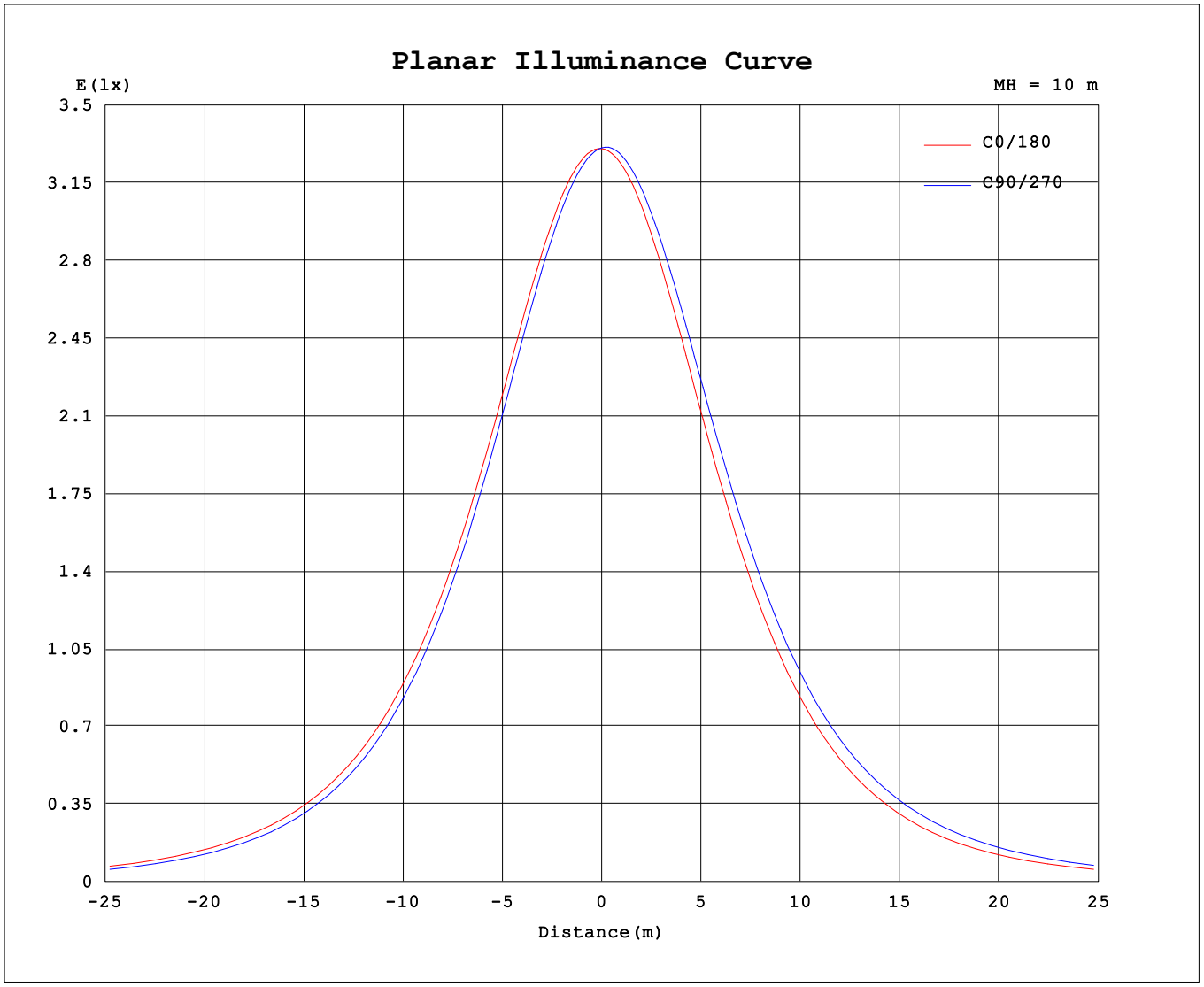
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
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Test Speed: HIGH
Temperature:25.3DEG
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γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: HCP-3426251-1M RGBW	TYPE: 2835-2216RGB	WEIGHT:
SPEC.:	DIM.: 1* 0.012	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	331	331	331	331	331	331	331	331	331	331	331	331
5	331	330	329	328	327	328	329	330	331	332	333	332
10	329	327	325	323	322	323	325	327	330	332	332	331
15	325	322	319	317	315	316	319	323	327	329	330	329
20	319	315	311	308	307	307	310	316	321	325	326	324
25	310	306	302	298	296	296	300	307	314	318	320	317
30	300	295	290	286	283	283	287	296	304	309	311	307
35	286	282	276	271	268	268	272	282	292	298	300	296
40	271	266	259	254	251	250	255	266	277	284	287	281
45	253	247	240	234	231	230	235	247	259	266	271	265
50	232	227	219	212	208	207	212	224	238	246	251	245
55	209	203	195	188	183	182	186	199	213	221	228	222
60	182	176	168	160	155	153	157	170	184	194	201	196
65	153	148	139	129	124	123	127	138	152	163	171	166
70	122	117	106	93.3	90.7	91.3	94.6	104	118	129	138	134
75	90.4	85.3	69.1	55.5	56.6	60.9	63.3	70.8	82.5	90.4	103	101
80	59.5	54.1	34.8	26.1	28.2	34.1	35.8	40.5	48.8	49.7	68.1	67.9
85	31.9	27.7	14.6	11.2	10.7	13.9	14.6	17.1	21.1	16.6	36.2	37.6
90	13.1	10.2	3.90	1.26	1.95	2.78	2.86	3.22	3.53	0.11	11.9	15.7
95	4.70	3.15	0.77	0.16	0.28	0.47	0.49	0.70	0.38	0.11	1.22	2.61
100	1.11	0.61	0.19	0.20	0.20	0.21	0.20	0.21	0.18	0.13	0.20	1.09
105	0.23	0.21	0.20	0.24	0.22	0.24	0.22	0.19	0.21	0.17	0.19	0.24
110	0.21	0.24	0.23	0.28	0.26	0.29	0.26	0.22	0.25	0.21	0.23	0.21
115	0.23	0.28	0.27	0.32	0.30	0.33	0.29	0.26	0.29	0.25	0.26	0.23
120	0.27	0.32	0.30	0.36	0.36	0.37	0.34	0.30	0.33	0.29	0.30	0.27
125	0.31	0.36	0.36	0.39	0.38	0.40	0.38	0.36	0.37	0.36	0.34	0.31
130	0.36	0.40	0.39	0.43	0.41	0.44	0.42	0.40	0.41	0.36	0.38	0.36
135	0.39	0.43	0.42	0.47	0.45	0.48	0.46	0.43	0.45	0.40	0.42	0.39
140	0.44	0.48	0.45	0.51	0.49	0.52	0.50	0.47	0.49	0.44	0.46	0.44
145	0.48	0.51	0.49	0.54	0.53	0.54	0.53	0.50	0.52	0.49	0.50	0.48
150	0.50	0.54	0.52	0.56	0.55	0.57	0.56	0.53	0.54	0.51	0.53	0.50
155	0.54	0.57	0.55	0.59	0.58	0.59	0.59	0.55	0.57	0.54	0.56	0.54
160	0.58	0.60	0.58	0.62	0.60	0.62	0.62	0.58	0.60	0.58	0.59	0.57
165	0.60	0.63	0.60	0.64	0.62	0.64	0.63	0.60	0.62	0.59	0.61	0.59
170	0.63	0.64	0.63	0.64	0.63	0.64	0.65	0.62	0.63	0.62	0.63	0.61
175	0.63	0.64	0.63	0.64	0.63	0.64	0.65	0.63	0.63	0.63	0.63	0.63
180	0.64	0.64	0.63	0.64	0.63	0.64	0.65	0.63	0.63	0.63	0.63	0.64

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