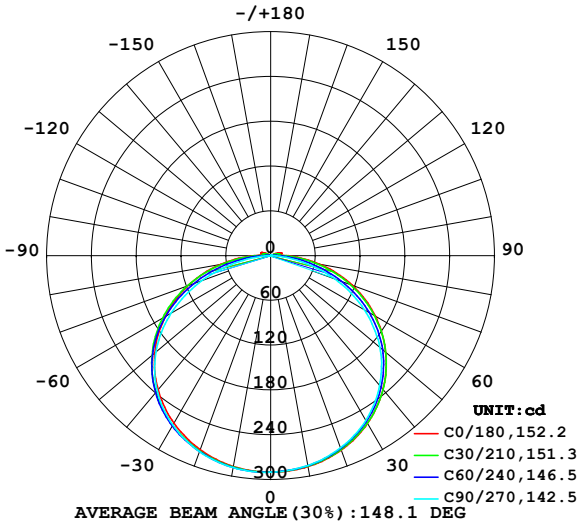
LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: HCP-3456251-RGBW	TYPE: 2835+2216	WEIGHT:
SPEC.:	DIM.: 1*0.012	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:

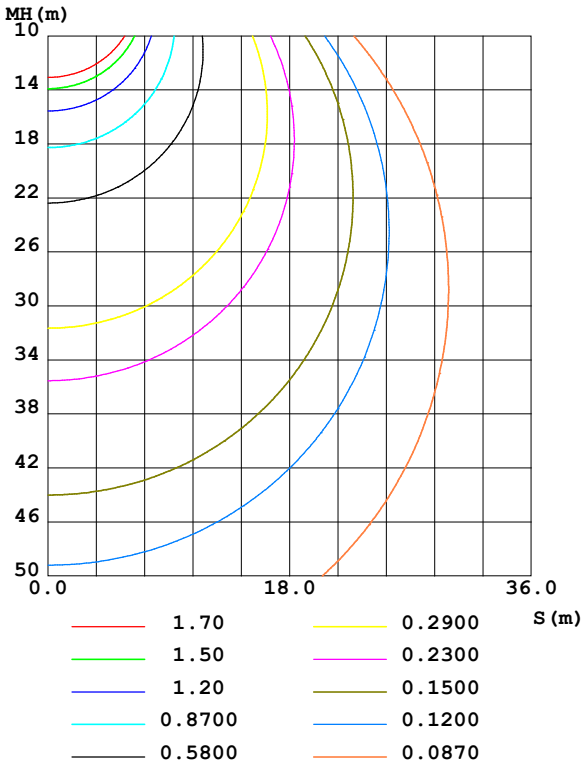
DATA OF LAMP		PHOTOMETRIC DATA		Eff: 49.70 lm/W	
MODEL	HCP-3456251	Imax(cd)	290.4	S/MH(C0/180)	1.33
NOMINAL POWER(W)	20	LOR(%)	100.0	S/MH(C90/270)	1.34
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	993.93	η UP,DN(C0-180)	1.1,48.3
NOMINAL FLUX(lm)	993.932	CIE CLASS	DIRECT	η UP,DN(C180-360)	1.0,49.6
LAMPS INSIDE	1	η up(%)	2.1	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	24	η down(%)	97.9	CIBSE SHR MAX	1.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(30%):148.1 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:zhuo
Test Date:2022-05-20

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	287.1	286.2	285.5	285.6	286.8	287.9	288.4	288.1	0- 10	27.54	27.54	2.77,2.77
20	277.2	275.7	274.1	274.9	276.5	278.7	279.3	278.9	10- 20	79.93	107.5	10.8,10.8
30	259.6	257.9	255.1	257.4	259.2	263.0	262.2	262.4	20- 30	124.2	231.7	23.3,23.3
40	234.1	232.2	227.3	232.6	234.7	239.5	236.6	238.2	30- 40	155.5	387.2	39,39
50	201.4	198.6	191.1	199.8	202.8	207.2	200.6	205.1	40- 50	169.1	556.3	56,56
60	161.9	156.5	144.9	158.2	163.0	164.7	153.9	162.6	50- 60	162.0	718.3	72.3,72.3
70	116.4	107.4	91.38	108.9	117.8	114.1	97.71	111.5	60- 70	133.2	851.5	85.7,85.7
80	66.78	55.78	35.77	56.90	68.12	58.93	37.84	56.95	70- 80	86.65	938.2	94.4,94.4
90	21.05	14.97	0.5833	15.22	22.43	14.85	0.1951	15.24	80- 90	34.98	973.2	97.9,97.9
100	13.99	7.878	0.1721	7.357	11.67	7.399	0.1544	6.956	90-100	9.808	983.0	98.9,98.9
110	11.70	3.712	0.2391	4.748	12.89	4.664	0.2156	3.637	100-110	6.555	989.5	99.6,99.6
120	1.620	0.5879	0.3032	1.119	3.945	0.9499	0.3001	0.3180	110-120	2.801	992.3	99.8,99.8
130	0.5243	0.3627	0.3703	0.4908	0.7471	0.4808	0.3404	0.3650	120-130	0.5524	992.9	99.9,99.9
140	0.4126	0.4151	0.4286	0.4434	0.5031	0.4429	0.4051	0.4242	130-140	0.3366	993.2	99.9,99.9
150	0.4509	0.4647	0.4869	0.4868	0.4830	0.4748	0.4750	0.4810	140-150	0.2829	993.5	100,100
160	0.5061	0.5156	0.5364	0.5291	0.5325	0.5142	0.5043	0.5175	150-160	0.2306	993.7	100,100
170	0.5369	0.5464	0.5684	0.5626	0.5531	0.5438	0.5388	0.5554	160-170	0.1524	993.9	100,100
180	0.5528	0.5579	0.5714	0.5860	0.5557	0.5549	0.5714	0.5860	170-180	0.0531	993.9	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

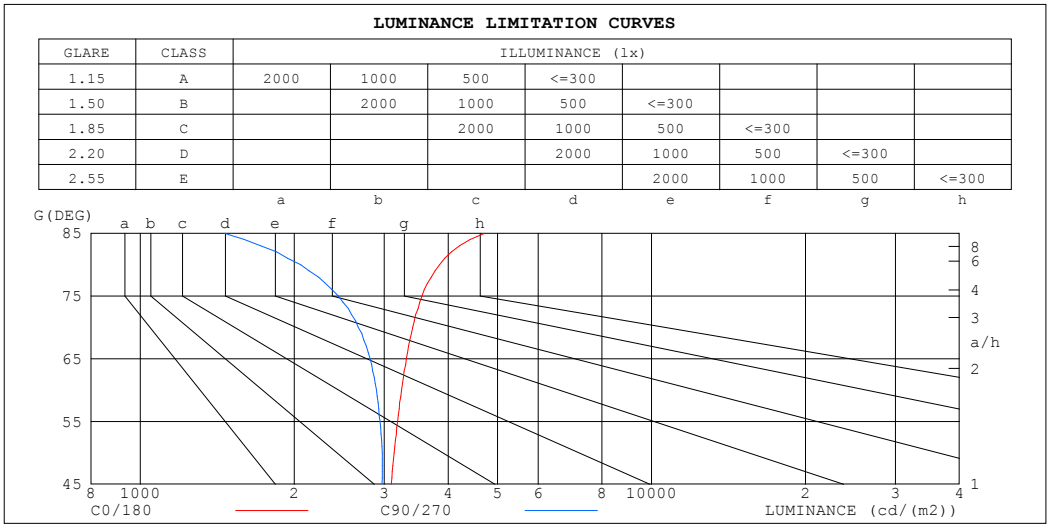
0 - 60 DEG Zonal Flux:718.3 %lum: 72.3%
0 - 60 DEG Zonal Flux:718.3 %lum: 72.3%
All measured values may vary less than 35 %
from the average measured value in the 0 to 130 deg. zone: 14.6%
All measured values in the 0 to 130 deg. zone
may vary less than 50% from the average value of itself: 21.5%

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:zhuo
Test Date:2022-05-20

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-3456251-RGBW	**TYPE: 2835+2216**	**WEIGHT:**
SPEC.:	**DIM.: 1*0.012**	**SERIAL No.:**
MFR.: HAVIT COMMERCIAL	**SUR.:**	**Shielding Angle:**



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	4719	1461
80	3851	2059
75	3554	2441
70	3409	2670
65	3312	2813
60	3244	2896
55	3188	2943
50	3138	2972
45	3095	2970

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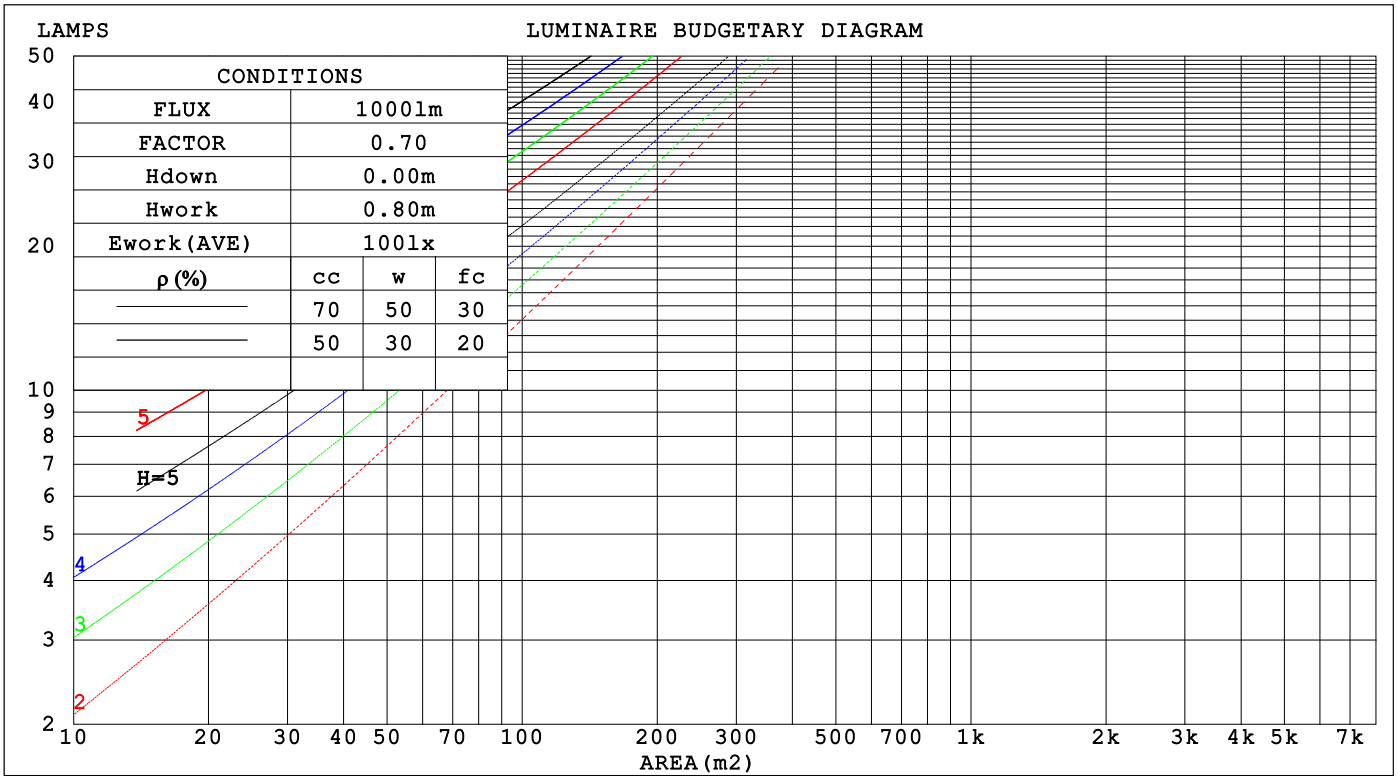
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: HCP-3456251-RGBW	TYPE: 2835+2216	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	1.10	1.10	1.10	1.05	1.05	1.05	1.00	1.00	1.00	.98
1.0	1.02	.97	.93	.99	.95	.91	.95	.91	.88	.90	.87	.85	.86	.84	.82	.79
2.0	.88	.80	.74	.86	.79	.73	.82	.76	.71	.78	.73	.69	.75	.71	.67	.65
3.0	.76	.68	.61	.75	.67	.60	.71	.64	.59	.68	.62	.57	.65	.60	.56	.54
4.0	.67	.58	.51	.66	.57	.50	.63	.55	.49	.60	.54	.49	.58	.52	.48	.45
5.0	.60	.50	.43	.59	.50	.43	.56	.48	.42	.54	.47	.42	.52	.46	.41	.39
6.0	.54	.44	.38	.53	.44	.37	.50	.43	.37	.49	.42	.36	.47	.41	.36	.34
7.0	.48	.39	.33	.48	.39	.33	.46	.38	.32	.44	.37	.32	.43	.36	.32	.30
8.0	.44	.35	.29	.43	.35	.29	.42	.34	.29	.40	.33	.28	.39	.33	.28	.26
9.0	.40	.32	.26	.40	.32	.26	.38	.31	.26	.37	.30	.26	.36	.30	.25	.23
10.0	.37	.29	.24	.37	.29	.24	.35	.28	.23	.34	.28	.23	.33	.27	.23	.21



C Range: 0 - 360DEG
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Operators:zhuo
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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:

WEC AND CCEC

NAME: HCP-3456251-RGBW	TYPE: 2835+2216	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	.341	.194	.061	.333	.190	.060	.319	.183	.058	.305	.176	.056	.293	.170	.055	
2.0	.313	.171	.053	.306	.168	.052	.293	.163	.051	.281	.158	.049	.270	.153	.048	
3.0	.286	.152	.046	.279	.150	.045	.268	.145	.044	.257	.141	.043	.247	.137	.042	
4.0	.261	.136	.040	.256	.134	.040	.245	.130	.039	.236	.127	.038	.227	.123	.038	
5.0	.240	.122	.035	.235	.121	.035	.226	.117	.035	.217	.115	.034	.209	.112	.034	
6.0	.221	.111	.032	.217	.110	.032	.209	.107	.031	.201	.104	.031	.194	.102	.030	
7.0	.205	.101	.029	.201	.100	.029	.194	.098	.028	.187	.096	.028	.180	.094	.028	
8.0	.191	.093	.026	.187	.092	.026	.181	.090	.026	.174	.088	.025	.169	.087	.025	
9.0	.178	.086	.024	.175	.085	.024	.169	.084	.024	.164	.082	.023	.158	.080	.023	
10.0	.167	.080	.022	.164	.079	.022	.159	.078	.022	.154	.076	.022	.149	.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	.206	.206	.206	.176	.176	.176	.120	.120	.120	.069	.069	.069	.022	.022	.022	
1.0	.199	.172	.148	.170	.148	.127	.116	.102	.088	.067	.059	.051	.021	.019	.017	
2.0	.191	.148	.112	.164	.127	.096	.112	.088	.067	.065	.051	.039	.021	.017	.013	
3.0	.184	.131	.088	.158	.113	.077	.108	.078	.054	.062	.046	.032	.020	.015	.010	
4.0	.176	.118	.073	.151	.102	.063	.104	.071	.045	.060	.041	.026	.019	.014	.009	
5.0	.169	.107	.062	.145	.093	.054	.100	.065	.038	.058	.038	.023	.019	.012	.007	
6.0	.161	.099	.054	.139	.086	.047	.096	.060	.034	.055	.035	.020	.018	.012	.007	
7.0	.154	.092	.049	.133	.080	.043	.092	.056	.030	.053	.033	.018	.017	.011	.006	
8.0	.148	.086	.045	.127	.075	.039	.088	.053	.028	.051	.031	.016	.017	.010	.005	
9.0	.141	.082	.041	.122	.071	.036	.084	.050	.026	.049	.029	.015	.016	.010	.005	
10.0	.135	.077	.039	.117	.067	.034	.081	.047	.024	.047	.028	.014	.015	.009	.005	

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:zhuo
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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:

UGR(Unified Glare Rating) Table

NAME: HCP-3456251-RGBW	TYPE: 2835+2216	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	17.0	18.5	17.3	18.8	19.0	16.5	18.1	16.8	18.3	18.6
3H	18.9	20.3	19.2	20.6	20.9	18.1	19.6	18.5	19.9	20.1
4H	19.8	21.2	20.2	21.5	21.8	18.8	20.1	19.1	20.4	20.7
6H	20.6	21.9	21.0	22.2	22.6	19.2	20.5	19.5	20.8	21.1
8H	21.0	22.2	21.4	22.6	22.9	19.3	20.5	19.7	20.9	21.2
12H	21.3	22.5	21.7	22.9	23.2	19.3	20.5	19.7	20.9	21.2
4H 2H	17.6	19.0	18.0	19.3	19.6	17.3	18.7	17.6	19.0	19.3
3H	19.8	21.0	20.2	21.3	21.7	19.1	20.3	19.5	20.6	21.0
4H	20.8	21.9	21.2	22.3	22.7	19.9	21.0	20.3	21.3	21.7
6H	21.8	22.8	22.2	23.2	23.6	20.4	21.4	20.8	21.8	22.2
8H	22.2	23.2	22.7	23.6	24.0	20.6	21.5	21.0	21.9	22.3
12H	22.7	23.5	23.1	23.9	24.4	20.7	21.5	21.1	21.9	22.4
8H 4H	21.1	22.1	21.6	22.5	22.9	20.3	21.2	20.7	21.6	22.1
6H	22.3	23.1	22.8	23.5	24.0	21.0	21.8	21.5	22.3	22.7
8H	22.9	23.6	23.4	24.1	24.6	21.3	22.0	21.8	22.5	23.0
12H	23.5	24.1	24.0	24.6	25.1	21.5	22.1	22.0	22.6	23.1
12H 4H	21.2	22.0	21.6	22.4	22.9	20.4	21.2	20.8	21.6	22.1
6H	22.4	23.1	22.9	23.6	24.1	21.2	21.9	21.7	22.4	22.9
8H	23.1	23.7	23.6	24.1	24.7	21.5	22.1	22.1	22.6	23.1
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.1 / - 0.3					+ 0.2 / - 0.4				

CIE Pub.117, 993.9 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.0)
Area: 0.1 m2

C Range: 0 - 360DEG
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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-3456251-RGBW	TYPE: 2835+2216	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	54	42	35	53	42	35	52	41	35	28
0.80	64	52	44	63	51	44	61	51	43	36
1.00	72	61	53	71	60	53	69	61	52	44
1.25	80	68	61	78	68	60	75	66	59	51
1.50	85	74	66	83	73	66	80	71	65	57
2.00	92	83	75	90	81	75	86	79	73	64
2.50	96	88	81	94	86	80	90	83	78	69
3.00	100	92	86	97	90	85	93	87	82	73
4.00	104	98	92	101	96	91	97	92	88	78
5.00	107	101	97	104	99	95	99	95	92	82
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended					SHRNOM = 1.25	

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ISOCANDELA DIAGRAM

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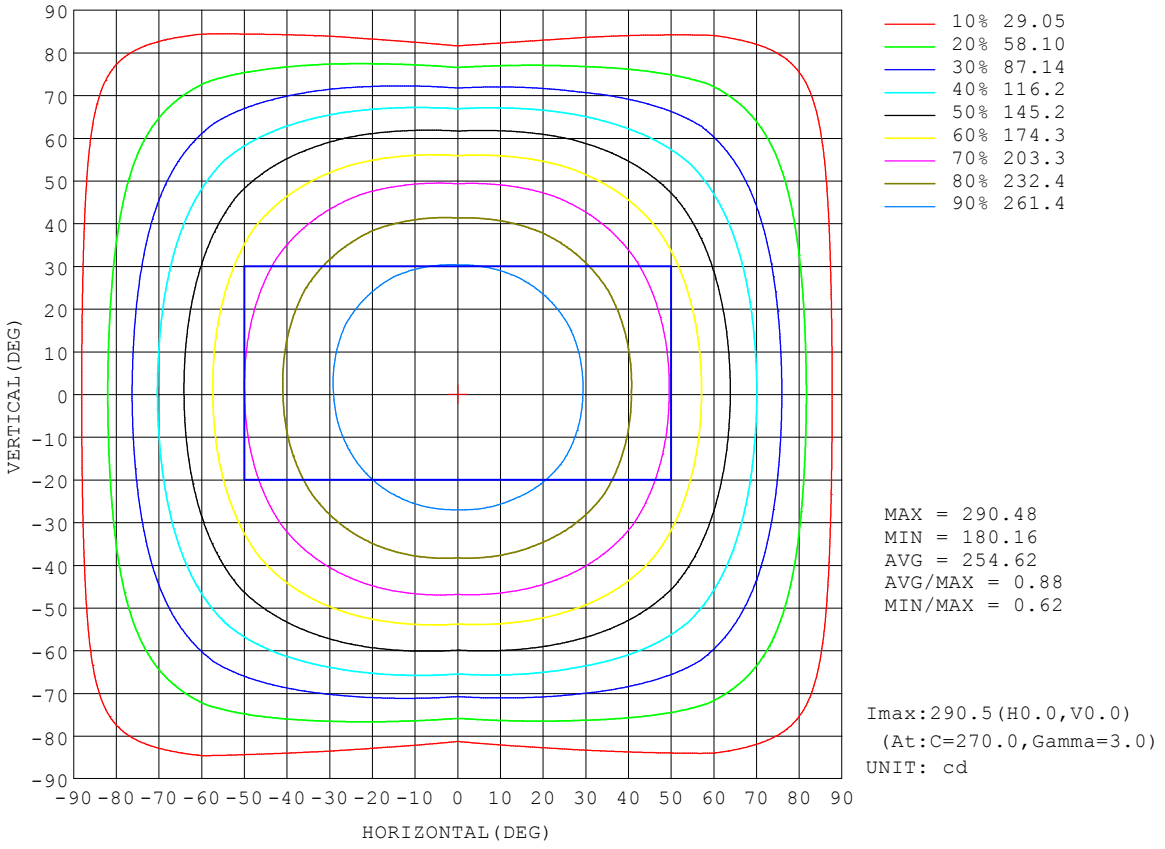
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:



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AAI Figure

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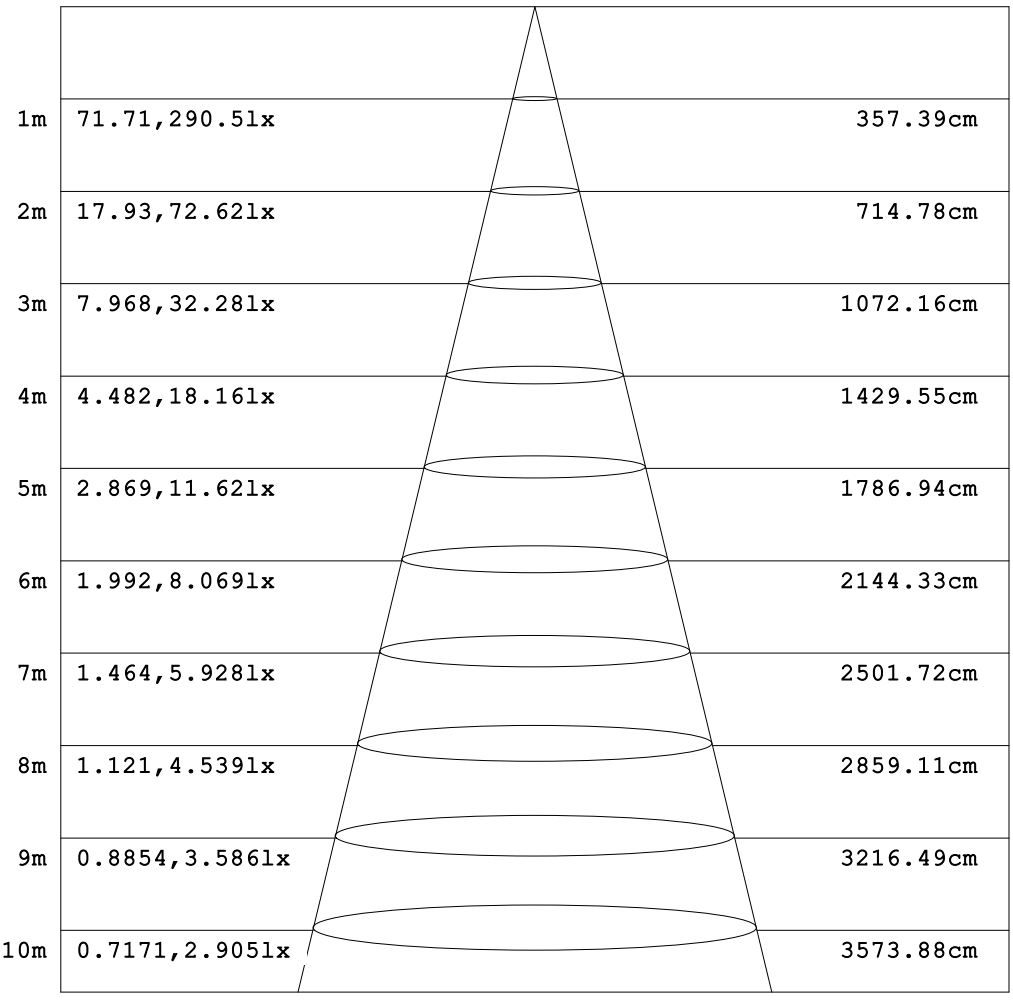
Flux out:733.3 lm



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

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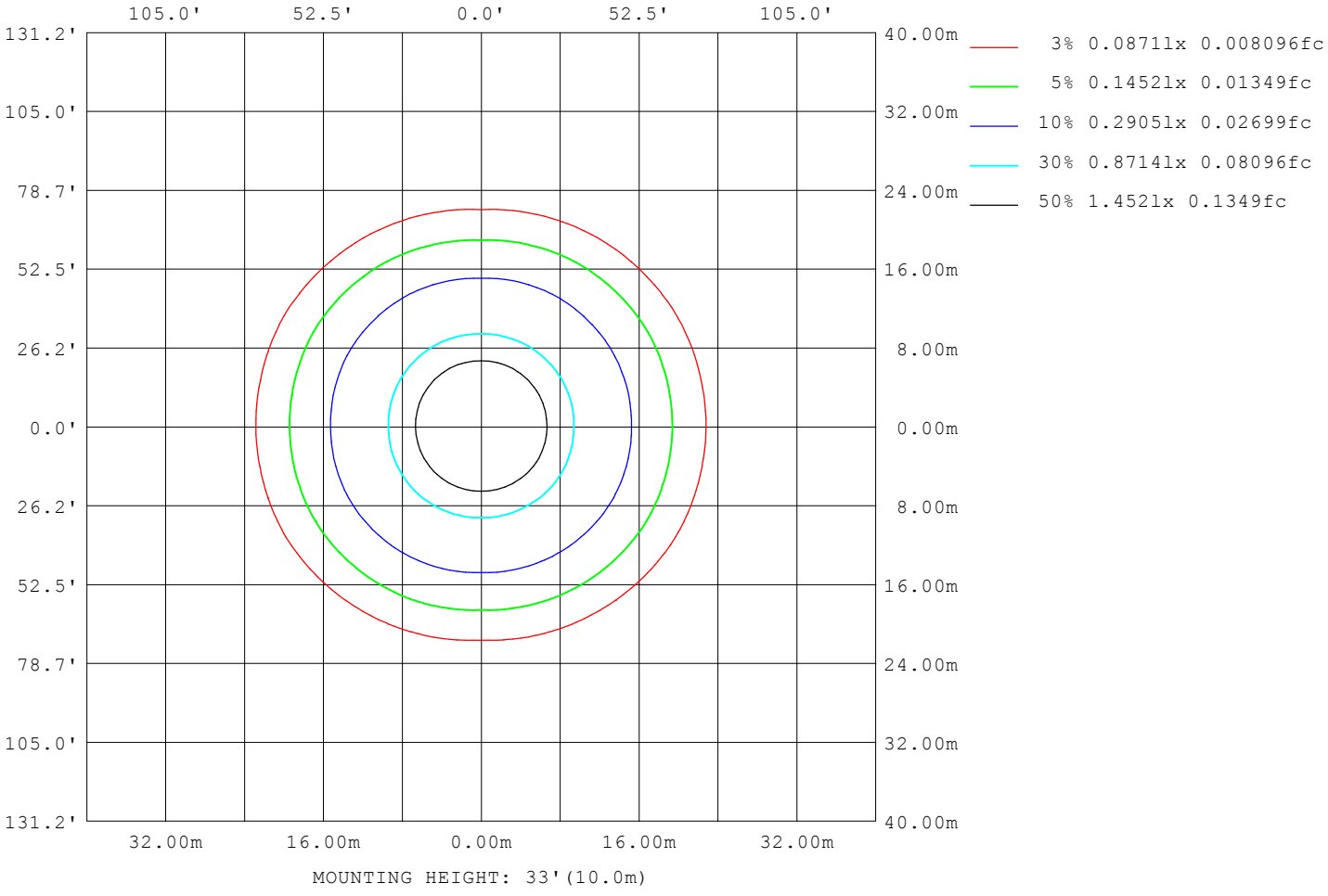
SPEC.:	DIM.: 1*0.012	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:zhuo
Test Date:2022-05-20

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-3456251-RGBW	TYPE: 2835+2216	WEIGHT:
SPEC.:	DIM.: 1*0.012	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:

AvgL	cd/m2
L_0~180(65)av	3324
L_0~180(75)av	3576
L_0~180(85)av	4825
L_90~270(65)av	2907
L_90~270(75)av	2524
L_90~270(85)av	1454
L_45(65)av	3241
L_45(75)av	3257
L_45(85)av	3832

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
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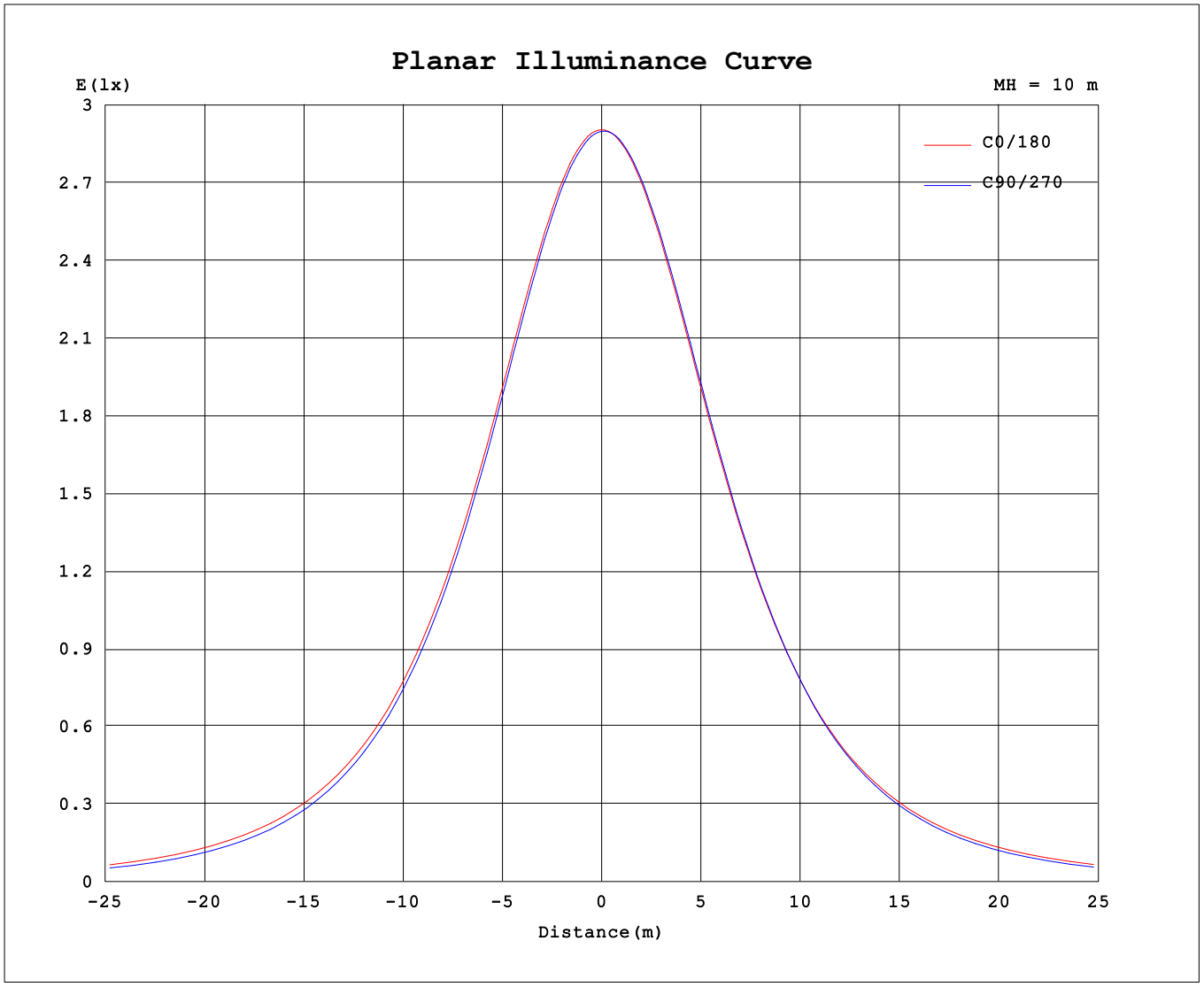
Test Date:2022-05-20

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:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:zhuo
Test Date:2022-05-20

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-3456251-RGBW	TYPE: 2835+2216	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	290	290	290	290	290	290	290	290	290	290	290	290
5	289	289	288	288	288	289	289	290	290	290	290	290
10	287	287	286	285	285	286	287	288	288	288	288	288
15	283	282	281	281	281	281	283	284	285	285	285	284
20	277	276	275	274	274	275	276	278	279	279	279	278
25	269	269	267	266	266	267	269	271	272	272	272	271
30	260	259	257	255	257	258	259	263	264	262	263	262
35	248	248	244	242	245	247	248	252	253	251	252	251
40	234	234	230	227	231	234	235	239	240	237	238	238
45	219	219	214	210	215	219	220	224	225	220	223	223
50	201	201	196	191	197	202	203	208	207	201	205	205
55	183	182	175	169	177	184	184	189	186	179	185	186
60	162	160	153	145	154	162	163	167	162	154	161	164
65	140	138	128	119	129	140	141	144	137	127	136	141
70	116	113	101	91.4	103	115	118	119	109	97.7	107	116
75	91.8	88.6	74.5	63.2	75.8	90.1	93.2	92.3	80.8	67.4	77.4	90.3
80	66.8	63.0	48.5	35.8	49.5	64.3	68.1	65.3	52.6	37.8	49.9	64.0
85	41.1	38.2	25.7	12.7	26.5	39.3	43.0	39.2	27.7	12.6	26.8	38.4
90	21.1	18.6	11.3	0.58	11.2	19.2	22.4	18.6	11.1	0.20	11.8	18.7
95	13.0	12.2	7.70	0.15	6.62	10.8	12.7	10.7	6.68	0.17	6.41	11.7
100	14.0	11.5	4.22	0.17	4.39	10.3	11.7	10.4	4.42	0.15	4.21	9.70
105	14.7	10.4	1.21	0.21	2.10	10.2	13.5	10.4	1.95	0.18	0.92	9.95
110	11.7	6.87	0.55	0.24	0.86	8.64	12.9	8.69	0.63	0.22	0.24	7.03
115	6.51	2.68	0.33	0.27	0.55	5.08	8.90	4.85	0.43	0.25	0.28	2.59
120	1.62	0.88	0.30	0.30	0.44	1.80	3.94	1.54	0.36	0.30	0.31	0.33
125	0.79	0.56	0.31	0.34	0.37	0.91	1.32	0.78	0.34	0.31	0.34	0.34
130	0.52	0.38	0.34	0.37	0.36	0.62	0.75	0.59	0.37	0.34	0.37	0.36
135	0.40	0.40	0.38	0.40	0.39	0.53	0.59	0.51	0.41	0.38	0.41	0.39
140	0.41	0.43	0.40	0.43	0.42	0.47	0.50	0.45	0.44	0.41	0.43	0.41
145	0.43	0.45	0.43	0.47	0.44	0.47	0.47	0.45	0.47	0.43	0.46	0.44
150	0.45	0.48	0.45	0.49	0.48	0.49	0.48	0.46	0.49	0.48	0.48	0.48
155	0.49	0.50	0.49	0.51	0.49	0.52	0.51	0.49	0.51	0.49	0.51	0.49
160	0.51	0.53	0.50	0.54	0.51	0.55	0.53	0.50	0.53	0.50	0.53	0.50
165	0.53	0.55	0.53	0.55	0.54	0.57	0.54	0.53	0.55	0.53	0.55	0.53
170	0.54	0.56	0.53	0.57	0.55	0.58	0.55	0.53	0.55	0.54	0.57	0.54
175	0.54	0.56	0.54	0.57	0.57	0.58	0.56	0.54	0.56	0.55	0.57	0.57
180	0.55	0.56	0.55	0.57	0.59	0.59	0.56	0.55	0.56	0.57	0.58	0.59

C Range: 0 - 360DEG
C Interval: 30.0DEG
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