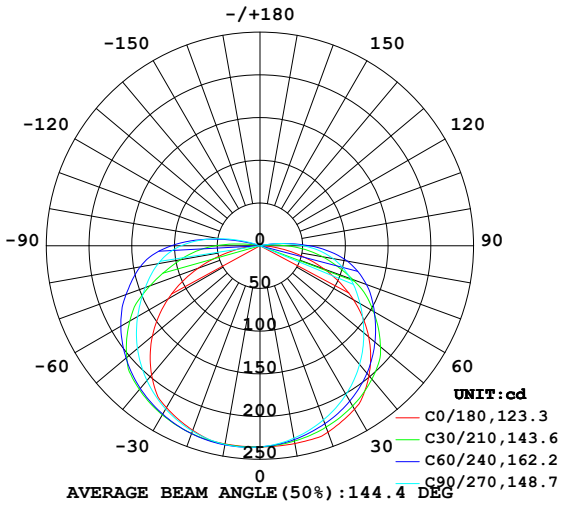
IES Flood Report
Photometric Filename: HCP-3221114.IES

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:23.956V I:0.4453A P:10.667W PF:1.0000 Freq:0Hz Lamp Flux:1005.41x1 lm		
NAME: HCP-3221114	TYPE:	WEIGHT:/
SPEC.:	DIM.: 100cm*1.2cm	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:100cm*0.4cm	Shielding Angle:-

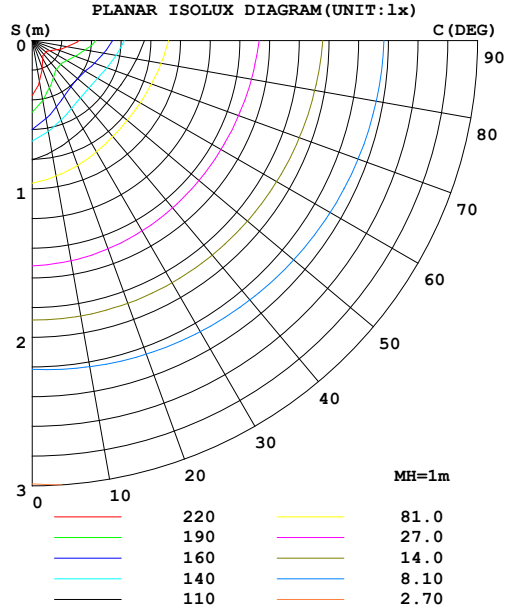
DATA OF LAMP		PHOTOMETRIC DATA Eff: 94.26 lm/W			
MODEL	DC 24V 4000K	Imax(cd)	236.7	S/MH(C0/180)	1.39
NOMINAL POWER(W)	10	LOR(%)	100.0	S/MH(C90/270)	1.40
RATED VOLTAGE(V)	DC 24	TOTAL FLUX(lm)	1005.4	η UP,DN(C0-180)	1.4,44.4
NOMINAL FLUX(lm)	1005.41	CIE CLASS	DIRECT	η UP,DN(C180-360)	3.5,50.7
LAMPS INSIDE	1	η up(%)	4.9	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	DC 24	η down(%)	95.1	CIBSE SHR MAX	1.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):144.4 DEG

PLANAR ISOLUX DIAGRAM(UNIT:lx)



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:YOUNG
Test Date:2021-03-29

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:50.8%
Test Distance:3.160m [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	235.1	231.3	228.7	231.6	235.5	236.3	236.2	236.0	0- 10	22.40	22.40	2.23,2.23
20	232.2	223.8	217.0	224.5	230.0	234.0	231.0	233.4	10- 20	65.55	87.95	8.75,8.75
30	221.0	213.4	201.2	214.4	218.8	228.1	220.6	227.5	20- 30	103.5	191.4	19,19
40	198.4	199.3	181.4	200.3	197.4	218.8	205.9	218.6	30- 40	133.0	324.4	32.3,32.3
50	166.0	179.9	158.6	181.5	164.4	204.1	187.2	202.3	40- 50	150.2	474.6	47.2,47.2
60	126.3	153.9	135.2	154.6	124.0	182.0	165.3	180.3	50- 60	152.2	626.8	62.3,62.3
70	80.27	124.0	112.8	121.4	77.30	151.9	142.8	152.0	60- 70	139.5	766.4	76.2,76.2
80	32.80	89.12	87.04	84.69	30.09	118.4	121.0	118.4	70- 80	112.8	879.1	87.4,87.4
90	1.582	44.72	50.77	38.44	1.191	77.94	92.41	81.31	80- 90	77.14	956.3	95.1,95.1
100	0.7071	4.894	10.70	3.764	0.7080	24.11	47.73	28.65	90-100	35.32	991.6	98.6,98.6
110	0.8979	1.362	1.332	1.355	0.8657	2.012	5.986	3.198	100-110	7.343	998.9	99.4,99.4
120	1.139	1.521	1.318	1.548	1.089	1.379	1.160	1.354	110-120	1.455	1000	99.5,99.5
130	1.312	1.707	1.445	1.738	1.306	1.584	1.271	1.552	120-130	1.289	1002	99.6,99.6
140	1.416	1.813	1.522	1.854	1.418	1.740	1.384	1.702	130-140	1.232	1003	99.8,99.8
150	1.430	1.828	1.525	1.873	1.446	1.813	1.442	1.766	140-150	1.049	1004	99.9,99.9
160	1.450	1.819	1.491	1.872	1.458	1.856	1.462	1.788	150-160	0.7802	1005	99.9,99.9
170	1.539	1.903	1.552	1.933	1.540	1.944	1.557	1.875	160-170	0.4864	1005	100,100
180	1.694	2.110	1.695	2.085	1.685	2.108	1.695	2.084	170-180	0.1747	1005	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 398.24 lm

%lum = 39.6%
%lamp = 39.6%

Conical surface Flux(120deg): 626.84 lm

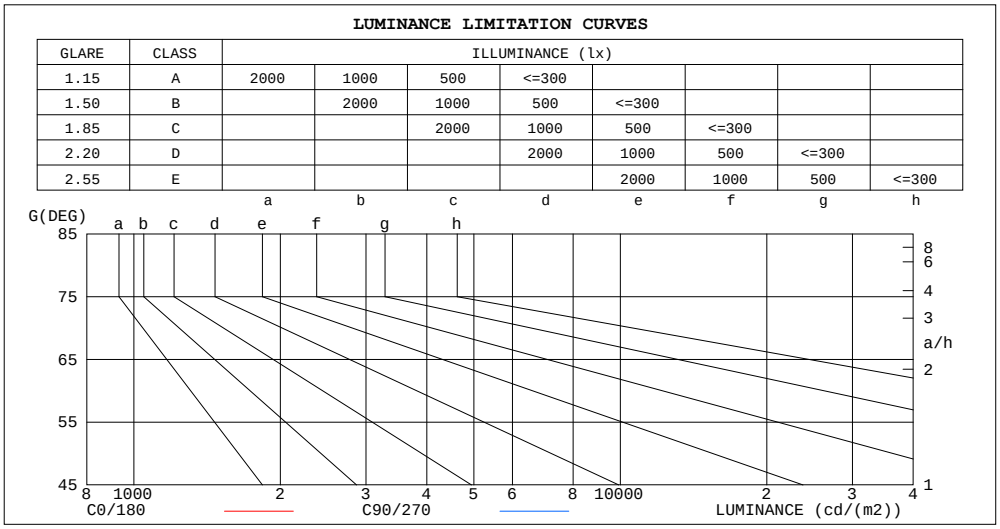
%lum = 62.3%
%lamp = 62.3%

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:YOUNG
Test Date:2021-03-29

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:50.8%
Test Distance:3.160m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:23.956V I:0.4453A P:10.667W PF:1.0000 Freq:0Hz Lamp Flux:1005.41x1 lm		
NAME: HCP-3221114	TYPE:	WEIGHT:/
SPEC.:	DIM.: 100cm*1.2cm	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:100cm*0.4cm	Shielding Angle:-



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	45496	232878
80	54425	144350
75	62371	112054
70	67622	94948
65	70868	84470
60	72795	77858
55	73895	73704
50	74433	71055
45	74638	69344

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:YOUNG
Test Date:2021-03-29

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:50.8%
Test Distance:3.160m [K=1.0000]
Remarks:

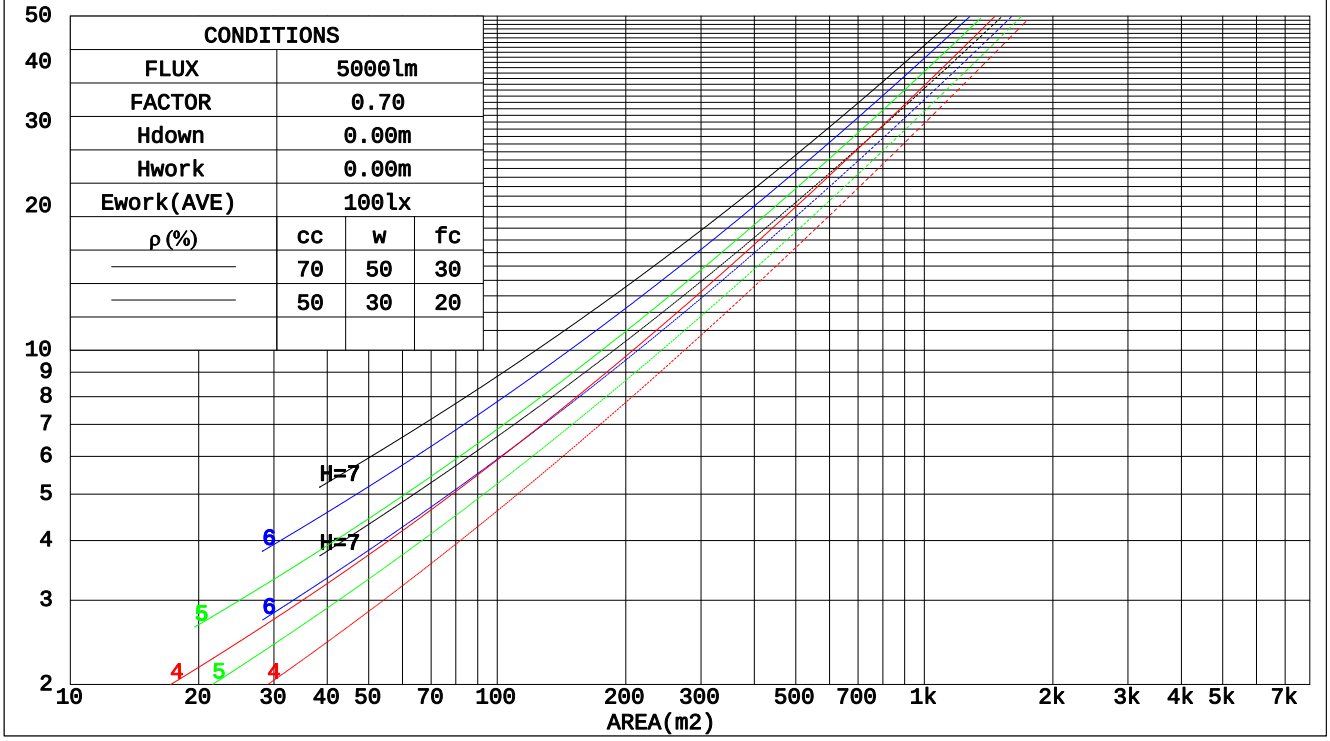
CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:23.956V I:0.4453A P:10.667W PF:1.0000 Freq:0Hz Lamp Flux:1005.41x1 lm		
NAME: HCP-3221114	TYPE:	WEIGHT:/
SPEC.:	DIM.: 100cm*1.2cm	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:100cm*0.4cm	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	1.18	1.18	1.18	1.15	1.15	1.15	1.08	1.08	1.08	1.03	1.03	1.03	.98	.98	.98	.95
1.0	.98	.92	.87	.95	.90	.86	.90	.86	.82	.85	.82	.78	.81	.78	.75	.73
2.0	.83	.75	.68	.81	.74	.67	.77	.70	.65	.72	.67	.62	.69	.64	.60	.58
3.0	.72	.63	.55	.70	.61	.54	.66	.59	.53	.63	.56	.51	.59	.54	.50	.47
4.0	.63	.53	.46	.61	.52	.45	.58	.50	.44	.55	.48	.43	.52	.46	.42	.39
5.0	.56	.46	.39	.54	.45	.38	.52	.44	.37	.49	.42	.36	.47	.40	.36	.33
6.0	.50	.40	.33	.49	.40	.33	.46	.38	.32	.44	.37	.32	.42	.36	.31	.28
7.0	.45	.36	.29	.44	.35	.29	.42	.34	.28	.40	.33	.28	.38	.32	.27	.25
8.0	.41	.32	.26	.40	.31	.25	.38	.30	.25	.37	.30	.24	.35	.29	.24	.22
9.0	.37	.29	.23	.37	.28	.23	.35	.28	.22	.34	.27	.22	.32	.26	.21	.20
10.0	.34	.26	.21	.34	.26	.20	.32	.25	.20	.31	.24	.20	.30	.24	.19	.18

LAMPS

LUMINAIRE BUDGETARY DIAGRAM



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:YOUNG
Test Date:2021-03-29

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:50.8%
Test Distance:3.160m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:23.956V I:0.4453A P:10.667W PF:1.0000 Freq:0Hz Lamp Flux:1005.41x1 lm		
NAME: HCP-3221114	TYPE:	WEIGHT:/
SPEC.:	DIM.: 100cm*1.2cm	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:100cm*0.4cm	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	.399	.227	.072	.391	.223	.071	.374	.215	.069	.359	.207	.066	.345	.200	.064	
2.0	.348	.191	.058	.340	.187	.058	.325	.181	.056	.311	.175	.055	.299	.169	.053	
3.0	.309	.164	.049	.302	.162	.049	.289	.156	.048	.276	.152	.046	.265	.147	.045	
4.0	.278	.144	.042	.272	.142	.042	.260	.138	.041	.249	.134	.040	.239	.130	.039	
5.0	.252	.128	.037	.247	.127	.037	.236	.123	.036	.226	.119	.035	.217	.116	.035	
6.0	.231	.116	.033	.226	.114	.033	.216	.111	.032	.207	.108	.032	.199	.105	.031	
7.0	.212	.105	.030	.208	.104	.030	.199	.101	.029	.191	.098	.029	.184	.095	.028	
8.0	.197	.096	.027	.193	.095	.027	.185	.092	.026	.178	.090	.026	.171	.088	.026	
9.0	.183	.089	.025	.179	.087	.025	.172	.085	.024	.166	.083	.024	.160	.081	.023	
10.0	.171	.082	.023	.168	.081	.023	.161	.079	.022	.155	.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	.228	.228	.228	.195	.195	.195	.133	.133	.133	.076	.076	.076	.024	.024	.024	
1.0	.224	.193	.165	.192	.166	.142	.131	.114	.098	.075	.066	.057	.024	.021	.018	
2.0	.217	.169	.129	.186	.146	.112	.128	.101	.078	.074	.059	.046	.024	.019	.015	
3.0	.210	.153	.107	.180	.132	.093	.124	.091	.065	.071	.053	.038	.023	.017	.013	
4.0	.202	.140	.092	.173	.121	.080	.119	.084	.056	.069	.049	.033	.022	.016	.011	
5.0	.194	.130	.082	.167	.112	.072	.115	.078	.051	.067	.046	.030	.021	.015	.010	
6.0	.186	.122	.075	.160	.105	.065	.111	.074	.046	.064	.043	.028	.021	.014	.009	
7.0	.179	.115	.070	.154	.100	.061	.106	.070	.043	.062	.041	.026	.020	.013	.008	
8.0	.172	.109	.066	.148	.095	.057	.103	.066	.041	.060	.039	.024	.019	.013	.008	
9.0	.166	.104	.063	.143	.090	.055	.099	.064	.039	.058	.038	.023	.019	.012	.008	
10.0	.159	.100	.060	.137	.087	.053	.095	.061	.037	.056	.036	.022	.018	.012	.007	

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:YOUNG
Test Date:2021-03-29

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:50.8%
Test Distance:3.160m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:23.956V I:0.4453A P:10.667W PF:1.0000 Freq:0Hz Lamp Flux:1005.41x1 lm		
NAME: HCP-3221114	TYPE:	WEIGHT:/
SPEC.:	DIM.: 100cm*1.2cm	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:100cm*0.4cm	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	27.2	28.8	27.5	29.1	29.4	27.3	28.9	27.6	29.2	29.5
	3H	29.0	30.5	29.4	30.8	31.2	29.8	31.3	30.2	31.6	32.0
	4H	29.7	31.2	30.1	31.5	31.9	31.2	32.6	31.6	32.9	33.3
	6H	30.3	31.6	30.7	32.0	32.4	32.6	33.9	33.0	34.3	34.7
	8H	30.4	31.7	30.8	32.1	32.5	33.3	34.6	33.8	35.0	35.4
	12H	30.5	31.8	30.9	32.2	32.6	34.1	35.4	34.6	35.8	36.2
4H	2H	28.0	29.4	28.3	29.7	30.1	28.0	29.5	28.4	29.8	30.2
	3H	30.0	31.3	30.5	31.7	32.1	30.8	32.0	31.2	32.4	32.9
	4H	30.9	32.1	31.4	32.5	33.0	32.3	33.5	32.8	33.9	34.3
	6H	31.7	32.7	32.2	33.2	33.7	33.9	35.0	34.4	35.4	35.9
	8H	31.9	32.9	32.4	33.4	33.9	34.8	35.8	35.3	36.2	36.7
	12H	32.1	33.0	32.6	33.5	34.0	35.7	36.6	36.2	37.1	37.6
8H	4H	31.6	32.6	32.1	33.1	33.6	32.8	33.7	33.3	34.2	34.7
	6H	32.7	33.5	33.2	34.0	34.6	34.7	35.5	35.2	36.0	36.6
	8H	33.1	33.9	33.7	34.4	35.0	35.7	36.5	36.3	37.0	37.6
	12H	33.5	34.1	34.0	34.7	35.3	36.9	37.5	37.4	38.1	38.7
12H	4H	31.8	32.7	32.3	33.2	33.7	32.8	33.7	33.3	34.2	34.7
	6H	33.0	33.8	33.6	34.3	34.9	34.8	35.6	35.4	36.1	36.7
	8H	33.6	34.3	34.2	34.8	35.4	36.0	36.6	36.5	37.2	37.8
Variations with the observer position at spacings:											
S = 1.0H		+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H		+ 0.2 / - 0.2					+ 0.2 / - 0.2				
2.0H		+ 0.2 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117, 1005 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 0.0)
Area: 0.004 m2

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:YOUNG
Test Date:2021-03-29

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:50.8%
Test Distance:3.160m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:23.956V I:0.4453A P:10.667W PF:1.0000 Freq:0Hz Lamp Flux:1005.41x1 lm		
NAME: HCP-3221114	TYPE:	WEIGHT:/
SPEC.:	DIM.: 100cm*1.2cm	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:100cm*0.4cm	Shielding Angle:-

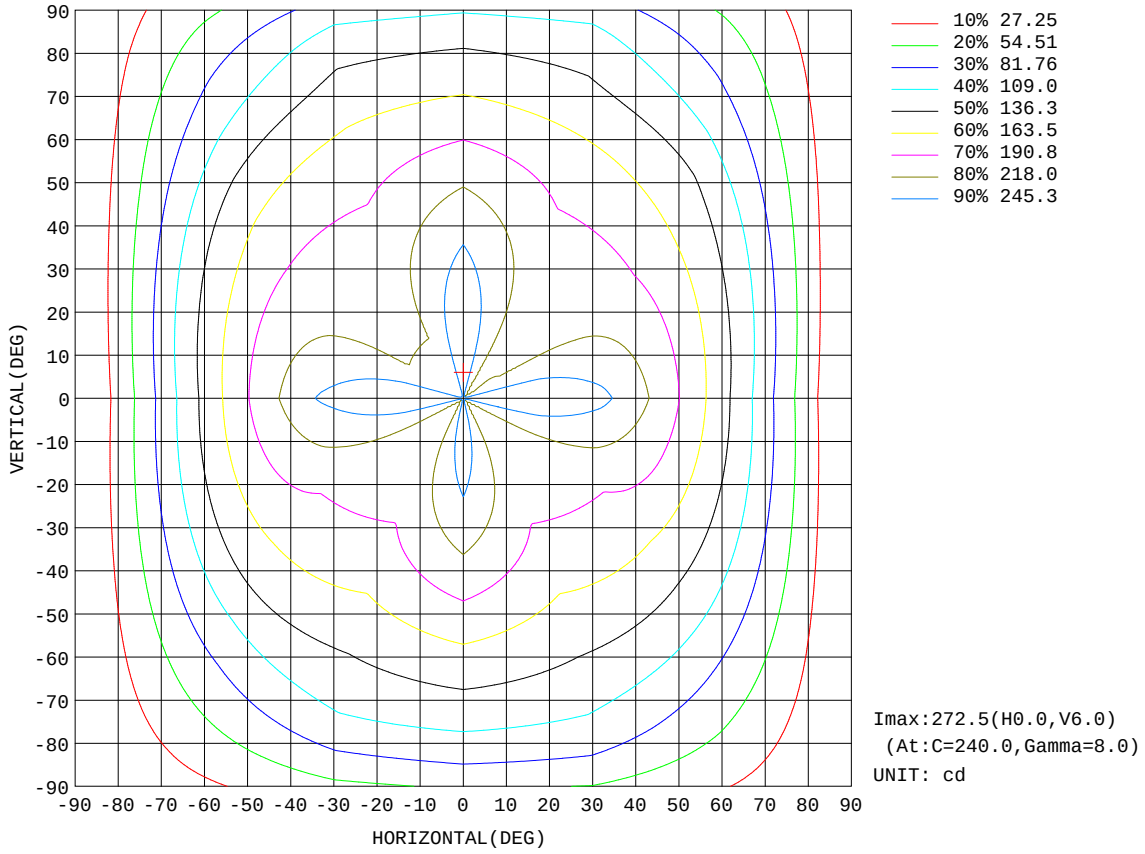
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	50	38	30	50	38	30	48	37	30	23
0.80	60	47	39	59	46	38	57	45	38	30
1.00	68	55	47	66	54	46	64	56	46	37
1.25	75	62	54	73	62	53	70	60	53	44
1.50	80	68	60	78	67	59	74	65	58	49
2.00	87	77	68	85	75	68	81	73	66	56
2.50	92	82	74	89	80	73	85	77	71	61
3.00	96	87	79	93	85	78	88	81	76	65
4.00	100	93	86	98	91	85	92	87	82	71
5.00	103	97	91	100	94	89	95	90	86	75
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended					SHRNOM = 1.25	

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:YOUNG
Test Date:2021-03-29

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:50.8%
Test Distance:3.160m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:23.956V I:0.4453A P:10.667W PF:1.0000 Freq:0Hz Lamp Flux:1005.41x1 lm		
NAME: HCP-3221114	TYPE:	WEIGHT:/
SPEC.:	DIM.: 100cm*1.2cm	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:100cm*0.4cm	Shielding Angle:-



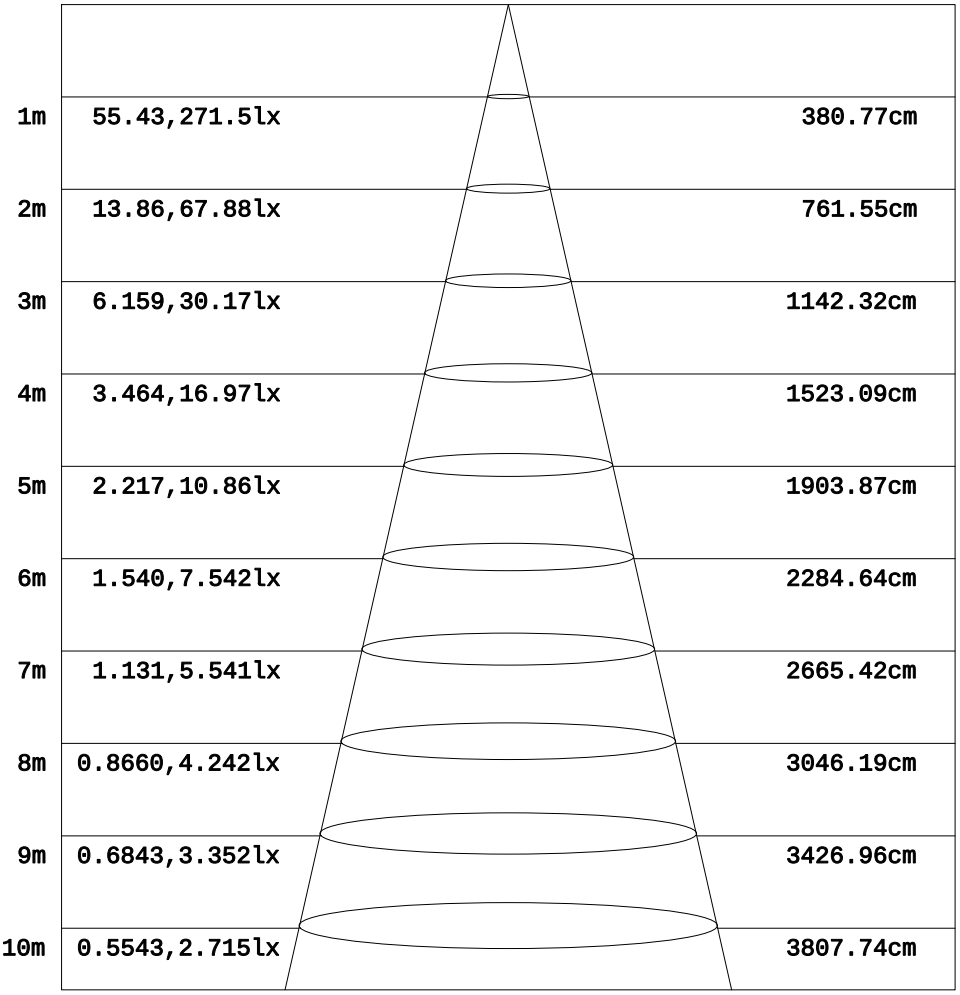
C Range: 0 - 360DEG
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Test Speed: HIGH
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γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:50.8%
Test Distance:3.160m [K=1.0000]
Remarks:

AAI Figure

Test:U:23.956V I:0.4453A P:10.667W PF:1.0000 Freq:0Hz Lamp Flux:1005.41x1 lm		
NAME: HCP-3221114	TYPE:	WEIGHT:/
SPEC.:	DIM.: 100cm*1.2cm	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:100cm*0.4cm	Shielding Angle:-

Flux out:670.7 lm



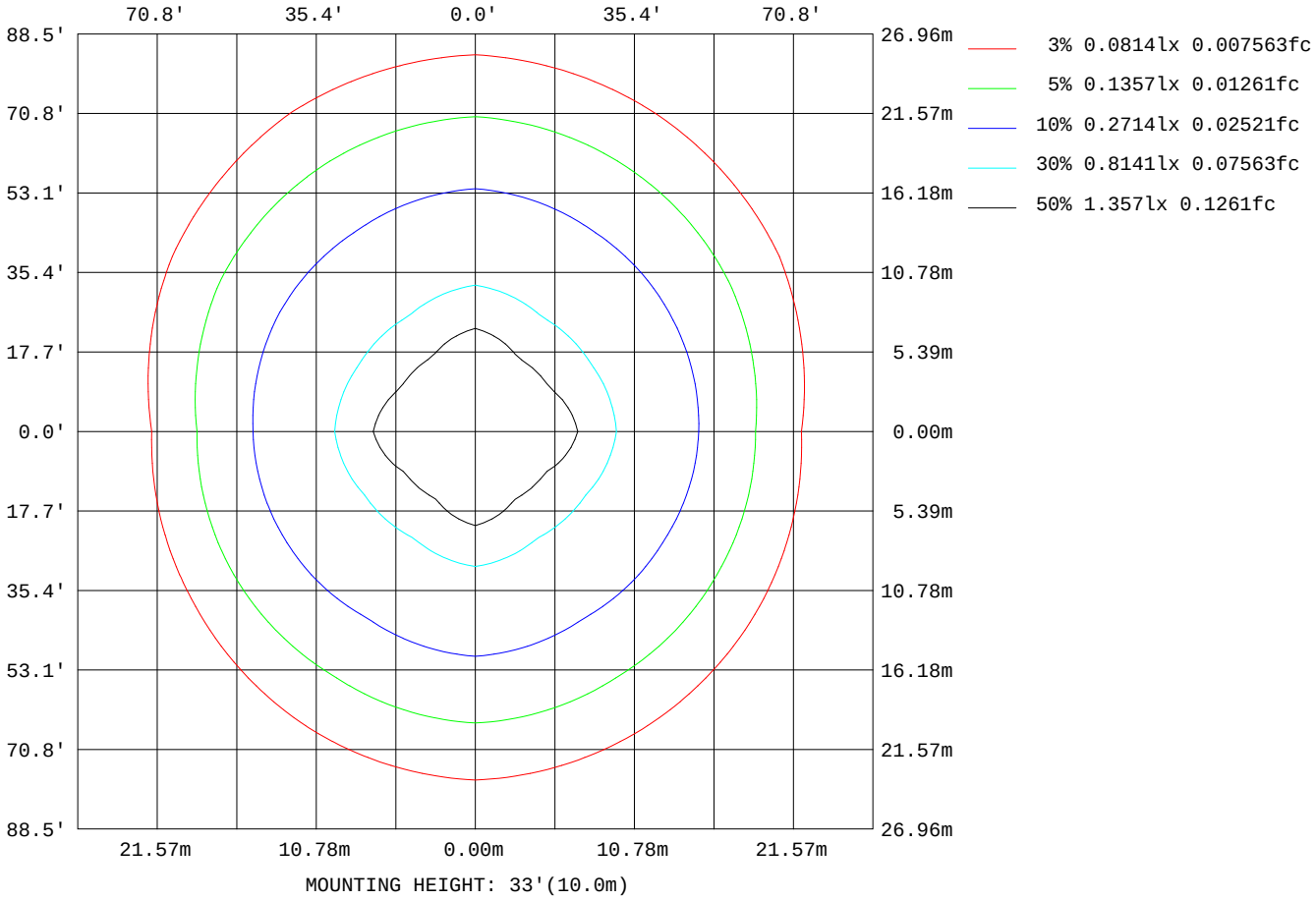
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:YOUNG
Test Date:2021-03-29

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:50.8%
Test Distance:3.160m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:23.956V I:0.4453A P:10.667W PF:1.0000 Freq:0Hz Lamp Flux:1005.41x1 lm		
NAME: HCP-3221114	TYPE:	WEIGHT:/
SPEC.:	DIM.: 100cm*1.2cm	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:100cm*0.4cm	Shielding Angle:-



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:YOUNG
Test Date:2021-03-29

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:50.8%
Test Distance:3.160m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:23.956V I:0.4453A P:10.667W PF:1.0000 Freq:0Hz Lamp Flux:1005.41x1 lm		
NAME: HCP-3221114	TYPE:	WEIGHT:/
SPEC.:	DIM.: 100cm*1.2cm	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:100cm*0.4cm	Shielding Angle:-

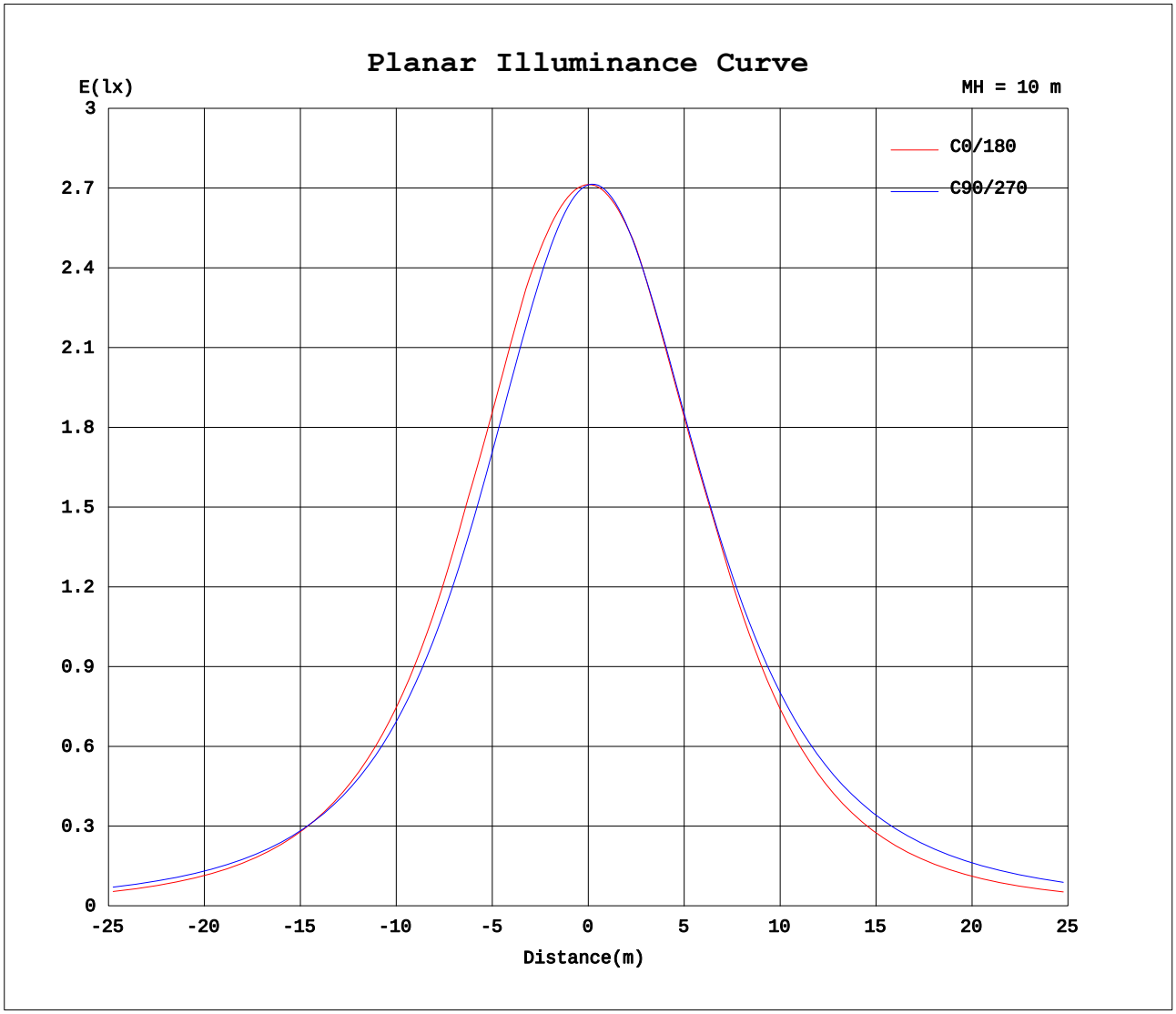
AvgL	cd/m2
L_0~180(65)av	60684
L_0~180(75)av	52669
L_0~180(85)av	37196
L_90~270(65)av	82199
L_90~270(75)av	112474
L_90~270(85)av	256409
L_45(65)av	94088
L_45(75)av	121184
L_45(85)av	254114

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:YOUNG
Test Date:2021-03-29

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:50.8%
Test Distance:3.160m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:YOUNG
Test Date:2021-03-29

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:50.8%
Test Distance:3.160m [K=1.0000]
Remarks:

IES Flood Report
Photometric Filename: HCP-3221114.IES

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:23.956V I:0.4453A P:10.667W PF:1.0000 Freq:0Hz Lamp Flux:1005.41x1 lm		
NAME: HCP-3221114	TYPE:	WEIGHT:/
SPEC.:	DIM.: 100cm*1.2cm	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:100cm*0.4cm	Shielding Angle:-

Table--1 UNIT: cd

γ (DEG) \ C(DEG)	0	30	60	90	120	150	180	210	240	270	300	330
0	235	235	235	235	235	235	235	235	235	235	235	235
5	235	234	233	233	234	234	236	236	237	237	236	236
10	235	232	230	229	231	233	235	236	237	236	236	236
15	235	230	226	223	227	230	235	235	236	234	235	235
20	232	226	222	217	222	227	230	234	234	231	233	233
25	227	222	216	210	217	223	225	232	231	226	231	231
30	221	217	210	201	211	218	219	229	228	221	227	228
35	212	211	203	192	204	212	211	225	223	214	223	224
40	198	204	195	181	196	205	197	220	218	206	218	220
45	183	196	186	170	187	196	182	214	212	197	212	212
50	166	184	176	159	177	186	164	204	205	187	205	200
55	147	169	165	147	166	171	145	190	197	177	197	187
60	126	153	155	135	154	155	124	176	188	165	188	173
65	104	137	144	124	144	133	101	160	178	154	176	158
70	80.3	115	133	113	133	110	77.3	137	167	143	164	140
75	56.0	94.0	119	101	119	88.7	53.0	115	155	132	152	117
80	32.8	74.4	104	87.0	101	68.3	30.1	94.5	142	121	140	96.6
85	13.8	53.6	82.9	70.5	78.3	46.7	12.2	75.2	126	108	127	77.8
90	1.58	31.4	58.1	50.8	52.3	24.7	1.19	52.0	104	92.4	107	56.3
95	0.72	9.69	30.7	29.4	25.8	5.74	0.76	25.2	75.9	72.3	80.7	30.3
100	0.71	1.58	8.22	10.7	6.39	1.16	0.71	4.74	43.5	47.7	49.6	7.83
105	0.78	1.20	2.12	2.41	2.07	1.11	0.76	1.19	15.0	23.6	20.7	1.34
110	0.90	1.27	1.45	1.33	1.49	1.22	0.87	1.10	2.92	5.99	5.26	1.15
115	1.02	1.30	1.50	1.25	1.55	1.34	0.97	1.20	1.38	1.48	2.07	1.20
120	1.14	1.44	1.60	1.32	1.63	1.47	1.09	1.34	1.42	1.16	1.41	1.30
125	1.24	1.56	1.68	1.39	1.71	1.59	1.21	1.47	1.51	1.21	1.48	1.43
130	1.31	1.65	1.76	1.45	1.79	1.68	1.31	1.58	1.59	1.27	1.57	1.54
135	1.37	1.73	1.82	1.49	1.86	1.75	1.37	1.67	1.67	1.33	1.64	1.63
140	1.42	1.77	1.85	1.52	1.90	1.80	1.42	1.74	1.74	1.38	1.71	1.69
145	1.43	1.79	1.87	1.53	1.92	1.83	1.44	1.78	1.79	1.42	1.76	1.73
150	1.43	1.79	1.87	1.53	1.92	1.83	1.45	1.80	1.82	1.44	1.79	1.75
155	1.44	1.79	1.86	1.51	1.91	1.84	1.44	1.82	1.84	1.45	1.80	1.75
160	1.45	1.79	1.85	1.49	1.89	1.85	1.46	1.86	1.85	1.46	1.81	1.77
165	1.48	1.82	1.86	1.48	1.90	1.88	1.49	1.90	1.88	1.48	1.83	1.80
170	1.54	1.90	1.91	1.55	1.94	1.93	1.54	1.96	1.93	1.56	1.88	1.87
175	1.62	2.01	2.01	1.62	2.01	2.02	1.62	2.04	2.01	1.62	1.98	1.97
180	1.69	2.12	2.10	1.69	2.08	2.09	1.68	2.12	2.10	1.69	2.08	2.09

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