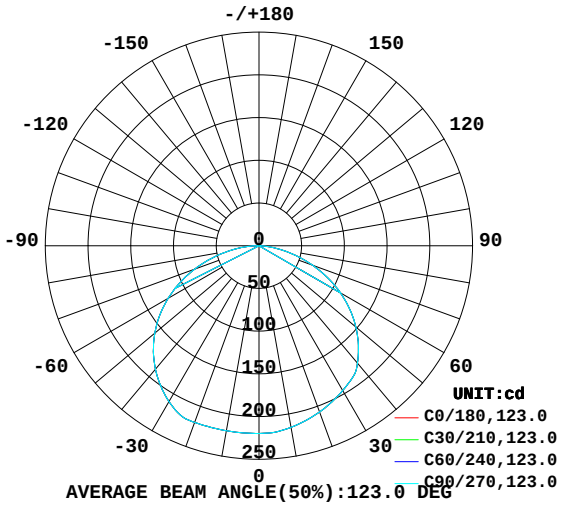
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:11.789V I:0.7482A P:8.8199W PF:1.0000 Freq:0Hz Lamp Flux:724.248x1 lm		
NAME: HCP-3221115	TYPE:/	WEIGHT:/
SPEC.:/	DIM.: /	SERIAL No.:1
MFR.: HAVIT COMMERCIAL	SUR.:1000mm*10mm	Shielding Angle:-

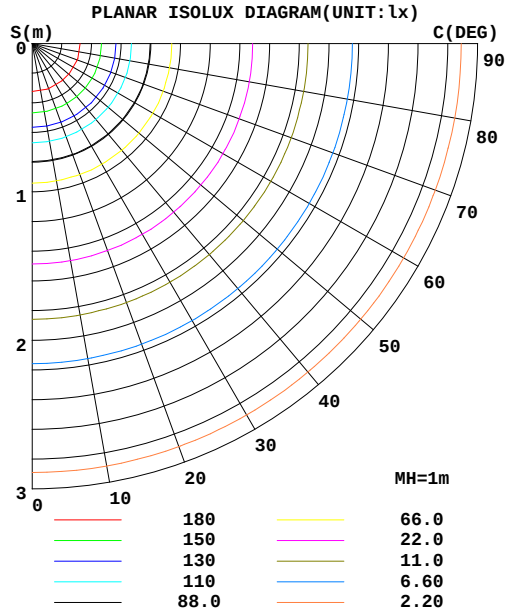
DATA OF LAMP		PHOTOMETRIC DATA		Eff: 82.11 lm/W	
MODEL	/	Imax(cd)	220.1	S/MH(C0/180)	1.34
NOMINAL POWER(W)	9	LOR(%)	100.0	S/MH(C90/270)	1.41
RATED VOLTAGE(V)	DC 12	TOTAL FLUX(lm)	724.25	η UP,DN(C0-180)	0.5,47.0
NOMINAL FLUX(lm)	724.248	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.5,52.0
LAMPS INSIDE	1	η up(%)	1.0	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	DC 12	η down(%)	99.0	CIBSE SHR MAX	1.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):123.0 DEG

PLANAR ISOLUX DIAGRAM(UNIT:lx)



C Range: 0 - 180DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Young
Test Date:2021-09-06

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:50.8%
Test Distance:3.154m [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	215.8	215.8	215.8	215.8	219.8	219.8	219.8	219.8	0- 10	20.89	20.89	2.88,2.88
20	207.1	207.1	207.1	207.1	220.1	220.1	220.1	220.1	10- 20	61.10	81.99	11.3,11.3
30	195.9	195.9	195.9	195.9	210.6	210.6	210.6	210.6	20- 30	96.81	178.8	24.7,24.7
40	179.4	179.4	179.4	179.4	188.6	188.6	188.6	188.6	30- 40	122.0	300.8	41.5,41.5
50	148.0	148.0	148.0	148.0	159.2	159.2	159.2	159.2	40- 50	130.8	431.7	59.6,59.6
60	109.9	109.9	109.9	109.9	122.6	122.6	122.6	122.6	50- 60	121.2	552.9	76.3,76.3
70	66.76	66.76	66.76	66.76	80.16	80.16	80.16	80.16	60- 70	94.22	647.1	89.3,89.3
80	24.61	24.61	24.61	24.61	36.23	36.23	36.23	36.23	70- 80	54.38	701.5	96.9,96.9
90	0.8152	0.8152	0.8152	0.8152	3.505	3.505	3.505	3.505	80- 90	15.44	716.9	99,99
100	0.6585	0.6585	0.6585	0.6585	0.7607	0.7607	0.7607	0.7607	90-100	0.9349	717.9	99.1,99.1
110	0.8308	0.8308	0.8308	0.8308	0.9314	0.9314	0.9314	0.9314	100-110	0.8184	718.7	99.2,99.2
120	1.161	1.161	1.161	1.161	1.192	1.192	1.192	1.192	110-120	1.019	719.7	99.4,99.4
130	1.387	1.387	1.387	1.387	1.444	1.444	1.444	1.444	120-130	1.170	720.9	99.5,99.5
140	1.528	1.528	1.528	1.528	1.583	1.583	1.583	1.583	130-140	1.157	722.0	99.7,99.7
150	1.545	1.545	1.545	1.545	1.483	1.483	1.483	1.483	140-150	0.9800	723.0	99.8,99.8
160	1.520	1.520	1.520	1.520	1.409	1.409	1.409	1.409	150-160	0.6845	723.7	99.9,99.9
170	1.458	1.458	1.458	1.458	1.428	1.428	1.428	1.428	160-170	0.4076	724.1	100,100
180	1.576	1.576	1.576	1.576	1.578	1.578	1.578	1.578	170-180	0.1418	724.2	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 366.32 lm

%lum = 50.6%
%lamp = 50.6%

Conical surface Flux(120deg): 552.89 lm

%lum = 76.3%
%lamp = 76.3%

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Temperature:25.3DEG
Operators:Young
Test Date:2021-09-06

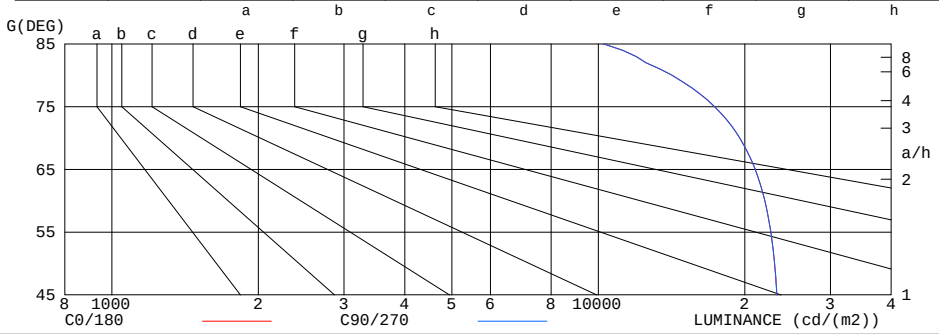
γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:50.8%
Test Distance:3.154m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:11.789V I:0.7482A P:8.8199W PF:1.0000 Freq:0Hz Lamp Flux:724.248x1 lm		
NAME: HCP-3221115	TYPE:/	WEIGHT:/
SPEC.:/	DIM.: /	SERIAL No.:1
MFR.: HAVIT COMMERCIAL	SUR.:1000mm*10mm	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	10240	10240
80	14175	14175
75	17327	17327
70	19521	19521
65	21011	21011
60	21984	21984
55	22627	22627
50	23030	23030
45	23274	23274

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Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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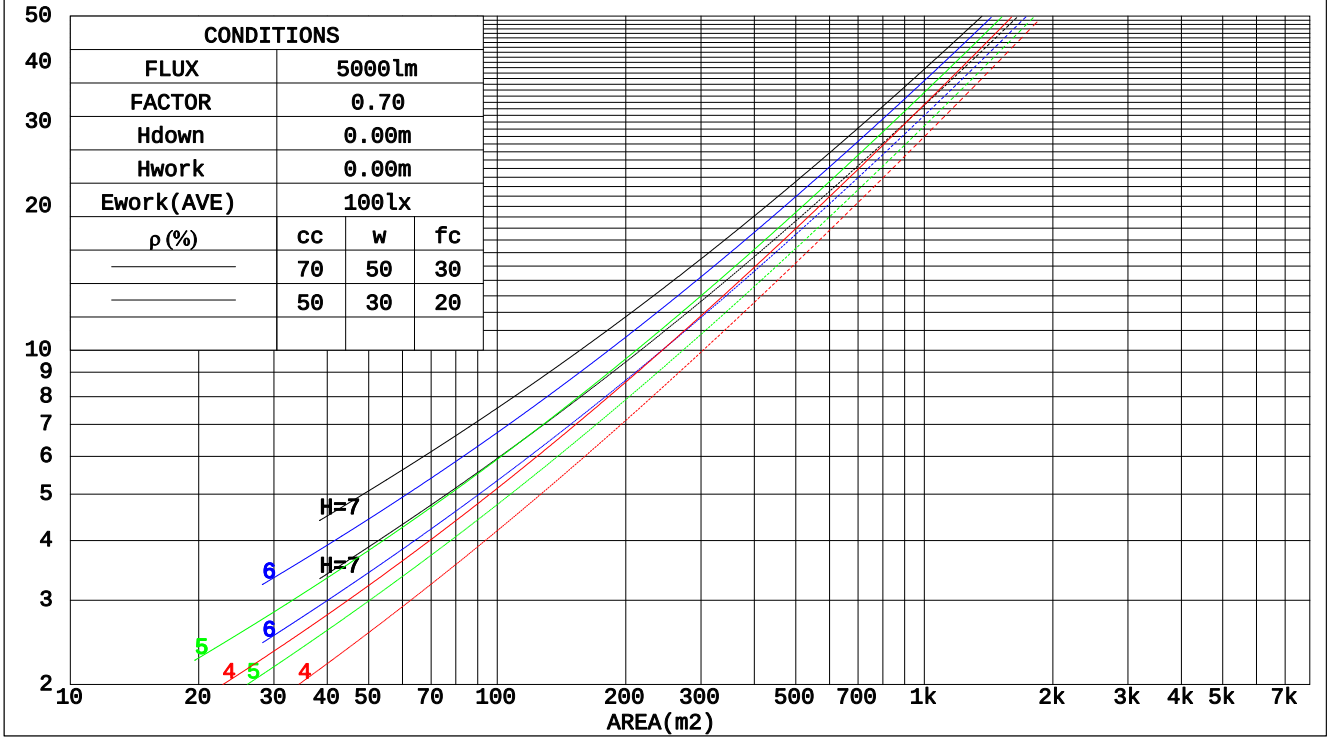
NAME: HCP-3221115	TYPE:/	WEIGHT:/
SPEC.:/	DIM.: /	SERIAL No.:1
MFR.: HAVIT COMMERCIAL	SUR.:1000mm*10mm	Shielding Angle:-

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	1.01	1.01	1.01	.99
1.0	1.03	.99	.95	1.01	.97	.93	.96	.93	.90	.92	.89	.87	.88	.86	.84	.82
2.0	.89	.82	.76	.87	.81	.75	.84	.78	.73	.80	.76	.72	.77	.73	.70	.68
3.0	.78	.70	.63	.76	.69	.62	.73	.67	.61	.70	.65	.60	.68	.63	.59	.56
4.0	.69	.60	.53	.67	.59	.53	.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	.39	.50	.43	.38	.49	.42	.38	.36
7.0	.50	.41	.34	.49	.40	.34	.47	.40	.34	.46	.39	.34	.44	.38	.33	.31
8.0	.45	.37	.31	.44	.36	.30	.43	.36	.30	.42	.35	.30	.40	.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	.35	.29	.24	.34	.28	.24	.22

LAMPS

LUMINAIRE BUDGETARY DIAGRAM



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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:3.154m [K=1.0000]
Remarks:

WEC AND CCEC

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NAME: HCP-3221115	TYPE:/	WEIGHT:/
SPEC.:/	DIM.: /	SERIAL No.:1
MFR.: HAVIT COMMERCIAL	SUR.:1000mm*10mm	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	.319	.182	.058	.312	.178	.057	.298	.171	.055	.285	.164	.053	.273	.158	.051	
2.0	.299	.164	.050	.293	.161	.050	.281	.156	.048	.269	.151	.047	.259	.146	.046	
3.0	.276	.147	.044	.271	.145	.044	.260	.141	.043	.250	.137	.042	.240	.133	.041	
4.0	.255	.132	.039	.249	.131	.039	.240	.127	.038	.231	.124	.037	.222	.121	.037	
5.0	.235	.120	.035	.230	.118	.034	.222	.115	.034	.214	.113	.034	.206	.110	.033	
6.0	.218	.109	.031	.213	.108	.031	.206	.105	.031	.199	.103	.030	.192	.101	.030	
7.0	.202	.100	.028	.199	.099	.028	.192	.097	.028	.185	.095	.028	.179	.093	.027	
8.0	.189	.092	.026	.185	.091	.026	.179	.090	.026	.173	.088	.025	.168	.086	.025	
9.0	.177	.085	.024	.174	.085	.024	.168	.083	.024	.163	.082	.023	.158	.080	.023	
10.0	.166	.080	.022	.163	.079	.022	.158	.077	.022	.153	.076	.022	.149	.075	.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	.198	.198	.198	.169	.169	.169	.116	.116	.116	.066	.066	.066	.021	.021	.021	
1.0	.189	.164	.141	.161	.141	.122	.110	.097	.084	.064	.056	.049	.020	.018	.016	
2.0	.181	.140	.105	.155	.120	.091	.106	.083	.063	.061	.048	.037	.020	.016	.012	
3.0	.174	.122	.081	.149	.105	.070	.102	.073	.049	.059	.043	.029	.019	.014	.010	
4.0	.166	.109	.065	.143	.094	.057	.098	.066	.040	.057	.038	.024	.018	.013	.008	
5.0	.159	.099	.054	.136	.085	.047	.094	.060	.033	.054	.035	.020	.018	.011	.007	
6.0	.152	.090	.047	.130	.078	.041	.090	.055	.029	.052	.032	.017	.017	.011	.006	
7.0	.145	.084	.041	.124	.072	.035	.086	.051	.025	.050	.030	.015	.016	.010	.005	
8.0	.138	.078	.036	.119	.067	.032	.082	.047	.022	.048	.028	.013	.015	.009	.004	
9.0	.132	.073	.033	.114	.063	.029	.079	.044	.020	.046	.026	.012	.015	.009	.004	
10.0	.126	.069	.030	.109	.060	.026	.075	.042	.019	.044	.025	.011	.014	.008	.004	

C Range: 0 - 180DEG
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Operators:Young
Test Date:2021-09-06

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:50.8%
Test Distance:3.154m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:11.789V I:0.7482A P:8.8199W PF:1.0000 Freq:0Hz Lamp Flux:724.248x1 lm		
NAME: HCP-3221115	TYPE:/	WEIGHT:/
SPEC.:/	DIM.: /	SERIAL No.:1
MFR.: HAVIT COMMERCIAL	SUR.:1000mm*10mm	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	23.6	25.2	23.9	25.4	25.6	23.6	25.2	23.9	25.4	25.6
	3H	25.1	26.5	25.4	26.8	27.0	25.1	26.5	25.4	26.8	27.0
	4H	25.6	27.0	26.0	27.3	27.5	25.6	27.0	26.0	27.3	27.5
	6H	26.0	27.2	26.3	27.5	27.8	26.0	27.2	26.3	27.5	27.8
	8H	26.0	27.3	26.4	27.6	27.9	26.0	27.3	26.4	27.6	27.9
	12H	26.1	27.3	26.4	27.6	27.9	26.1	27.3	26.4	27.6	27.9
4H	2H	24.2	25.6	24.5	25.8	26.1	24.2	25.6	24.5	25.8	26.1
	3H	25.9	27.1	26.2	27.4	27.7	25.9	27.1	26.2	27.4	27.7
	4H	26.5	27.6	26.9	27.9	28.3	26.5	27.6	26.9	27.9	28.3
	6H	27.0	27.9	27.4	28.3	28.7	27.0	27.9	27.4	28.3	28.7
	8H	27.1	28.0	27.5	28.4	28.8	27.1	28.0	27.5	28.4	28.8
	12H	27.1	28.0	27.6	28.4	28.8	27.1	28.0	27.6	28.4	28.8
8H	4H	26.7	27.6	27.2	28.0	28.4	26.7	27.6	27.2	28.0	28.4
	6H	27.3	28.0	27.8	28.5	28.9	27.3	28.0	27.8	28.5	28.9
	8H	27.5	28.1	28.0	28.6	29.1	27.5	28.1	28.0	28.6	29.1
	12H	27.6	28.2	28.1	28.6	29.1	27.6	28.2	28.1	28.6	29.1
12H	4H	26.7	27.6	27.2	28.0	28.4	26.7	27.6	27.2	28.0	28.4
	6H	27.3	28.0	27.8	28.4	28.9	27.3	28.0	27.8	28.4	28.9
	8H	27.5	28.1	28.0	28.6	29.1	27.5	28.1	28.0	28.6	29.1

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

CIE Pub.117, 724.2 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -1.1)
Area: 0.01 m2

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Operators:Young
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Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:50.8%
Test Distance:3.154m [K=1.0000]
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UTILIZATION FACTORS TABLE

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NAME: HCP-3221115	TYPE:/	WEIGHT:/
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MFR.: HAVIT COMMERCIAL	SUR.:1000mm*10mm	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	37	55	44	37	54	43	36	30
0.80	66	54	46	65	53	46	63	52	46	38
1.00	74	63	55	73	62	55	71	64	54	47
1.25	82	71	63	80	70	63	77	68	62	54
1.50	87	76	69	85	75	69	82	74	67	60
2.00	94	85	78	92	84	77	88	81	76	68
2.50	98	90	83	96	88	83	92	85	81	72
3.00	101	94	88	99	93	87	95	89	85	76
4.00	105	100	95	103	98	93	98	94	90	81
5.00	108	103	99	105	101	97	101	97	94	84
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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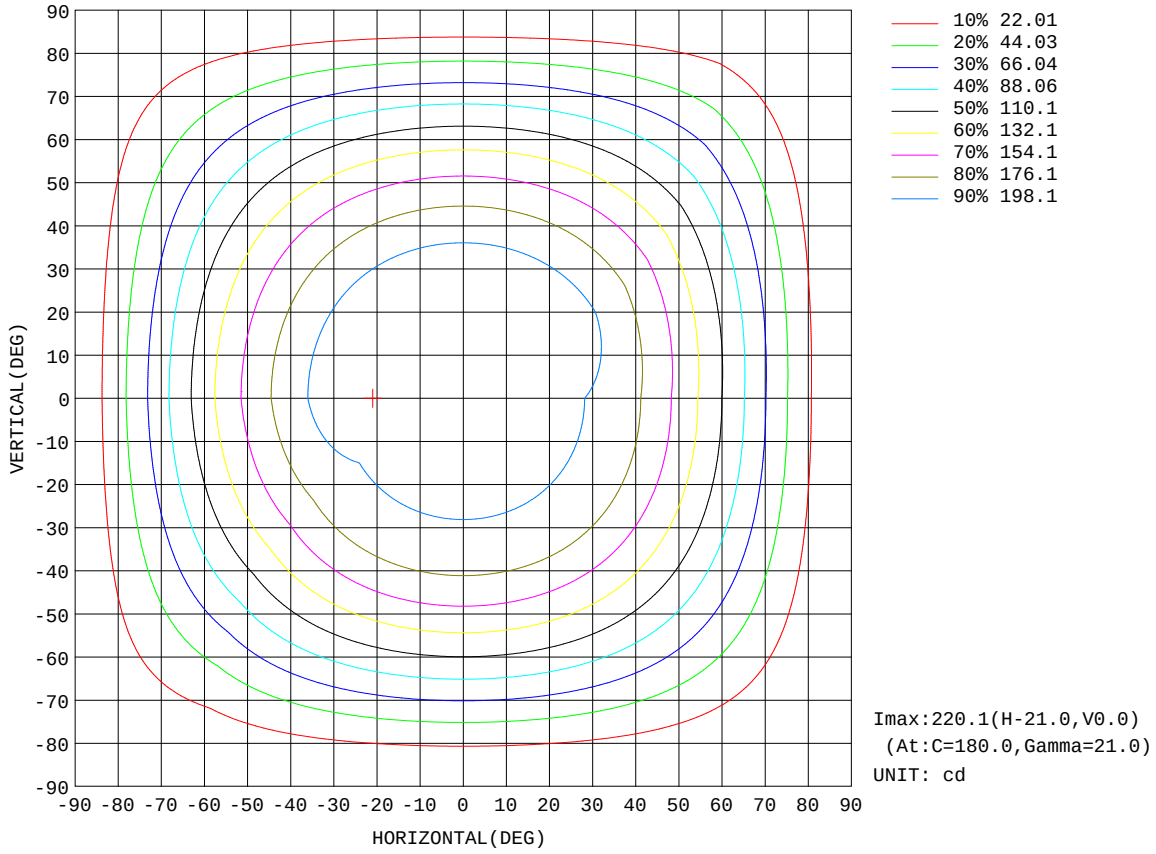

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AAI Figure

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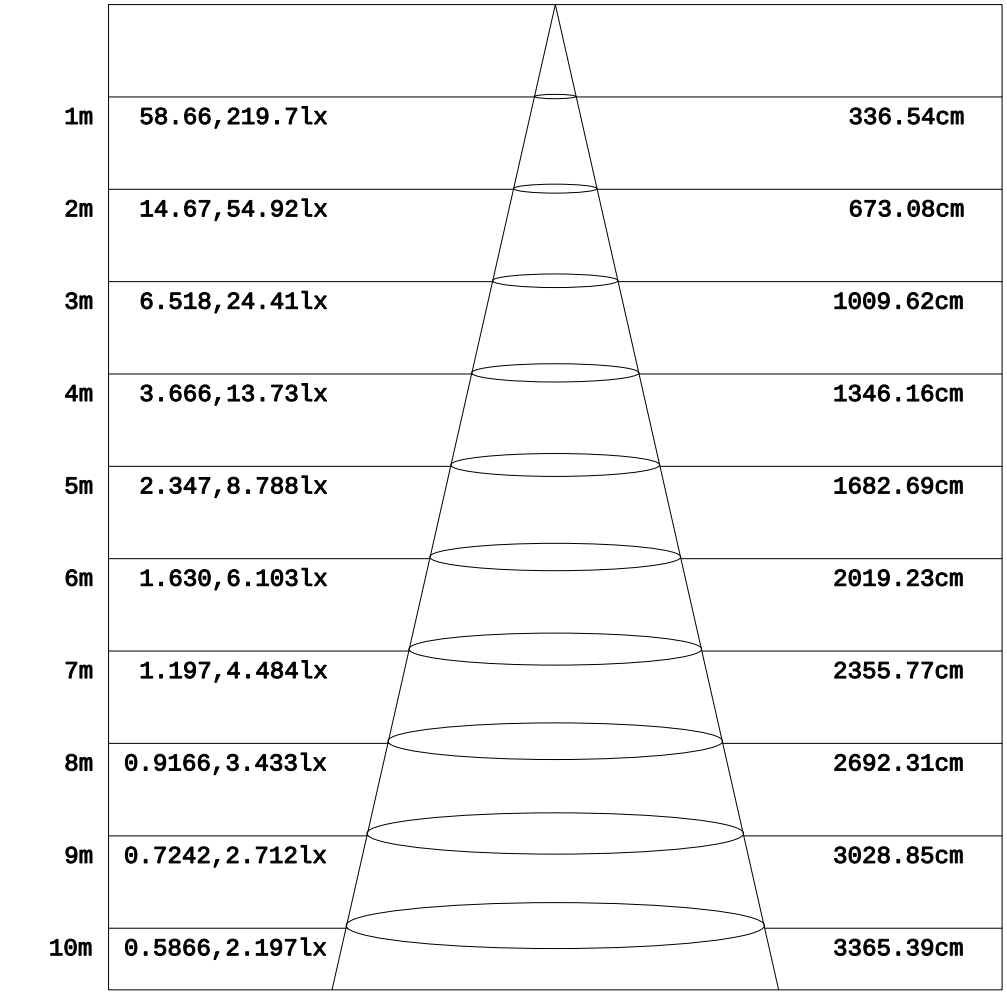
SPEC.:/	DIM.: /	SERIAL No.:1
MFR.: HAVIT COMMERCIAL	SUR.:1000mm*10mm	Shielding Angle:-

Flux out:552.9 lm



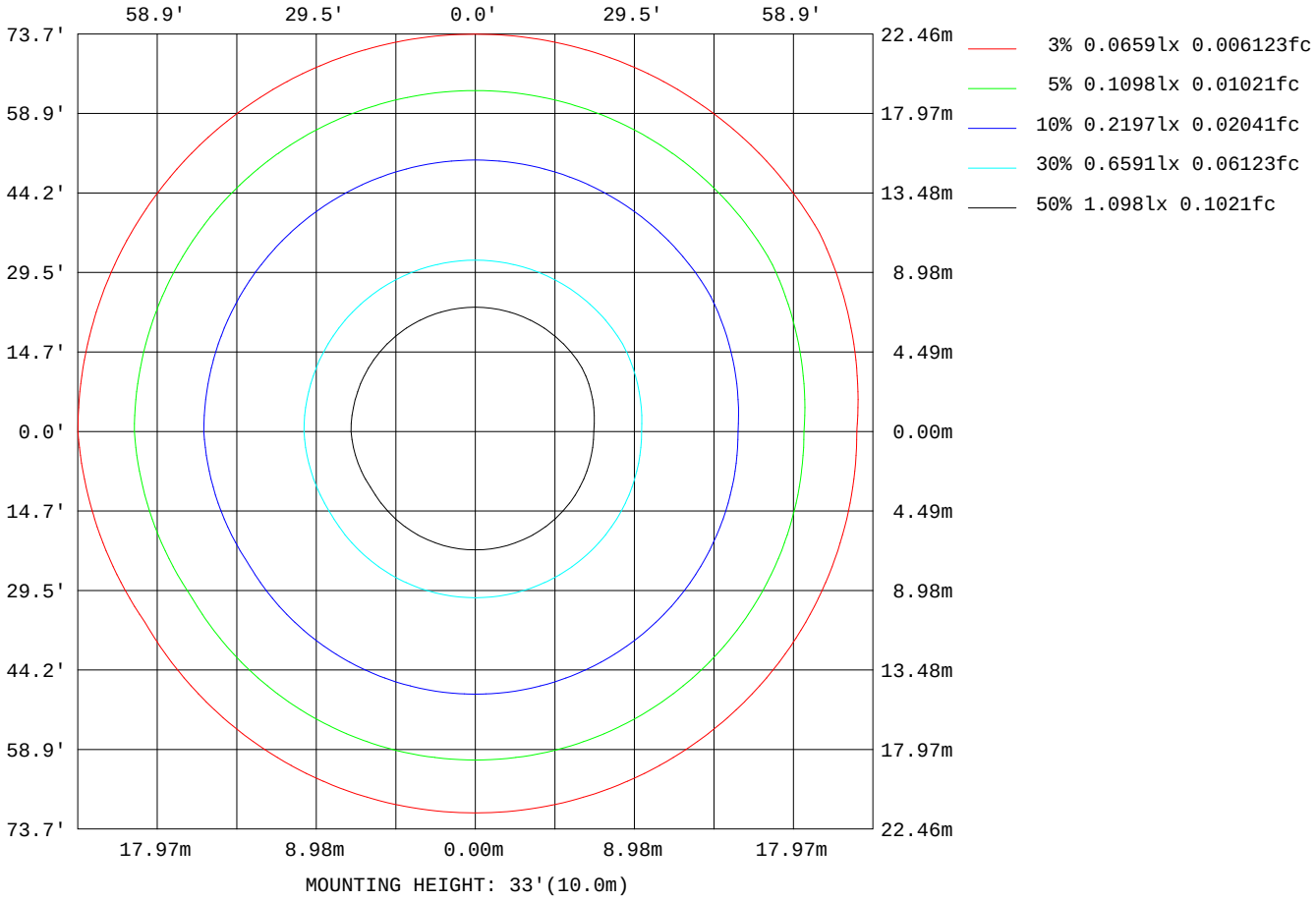
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 180DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Young
Test Date:2021-09-06

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:50.8%
Test Distance:3.154m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:11.789V I:0.7482A P:8.8199W PF:1.0000 Freq:0Hz Lamp Flux:724.248x1 lm		
NAME: HCP-3221115	TYPE:/	WEIGHT:/
SPEC.:/	DIM.: /	SERIAL No.:1
MFR.: HAVIT COMMERCIAL	SUR.:1000mm*10mm	Shielding Angle:-



C Range: 0 - 180DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Young
Test Date:2021-09-06

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:50.8%
Test Distance:3.154m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:11.789V I:0.7482A P:8.8199W PF:1.0000 Freq:0Hz Lamp Flux:724.248x1 lm		
NAME: HCP-3221115	TYPE:/	WEIGHT:/
SPEC.:/	DIM.: /	SERIAL No.:1
MFR.: HAVIT COMMERCIAL	SUR.:1000mm*10mm	Shielding Angle:-

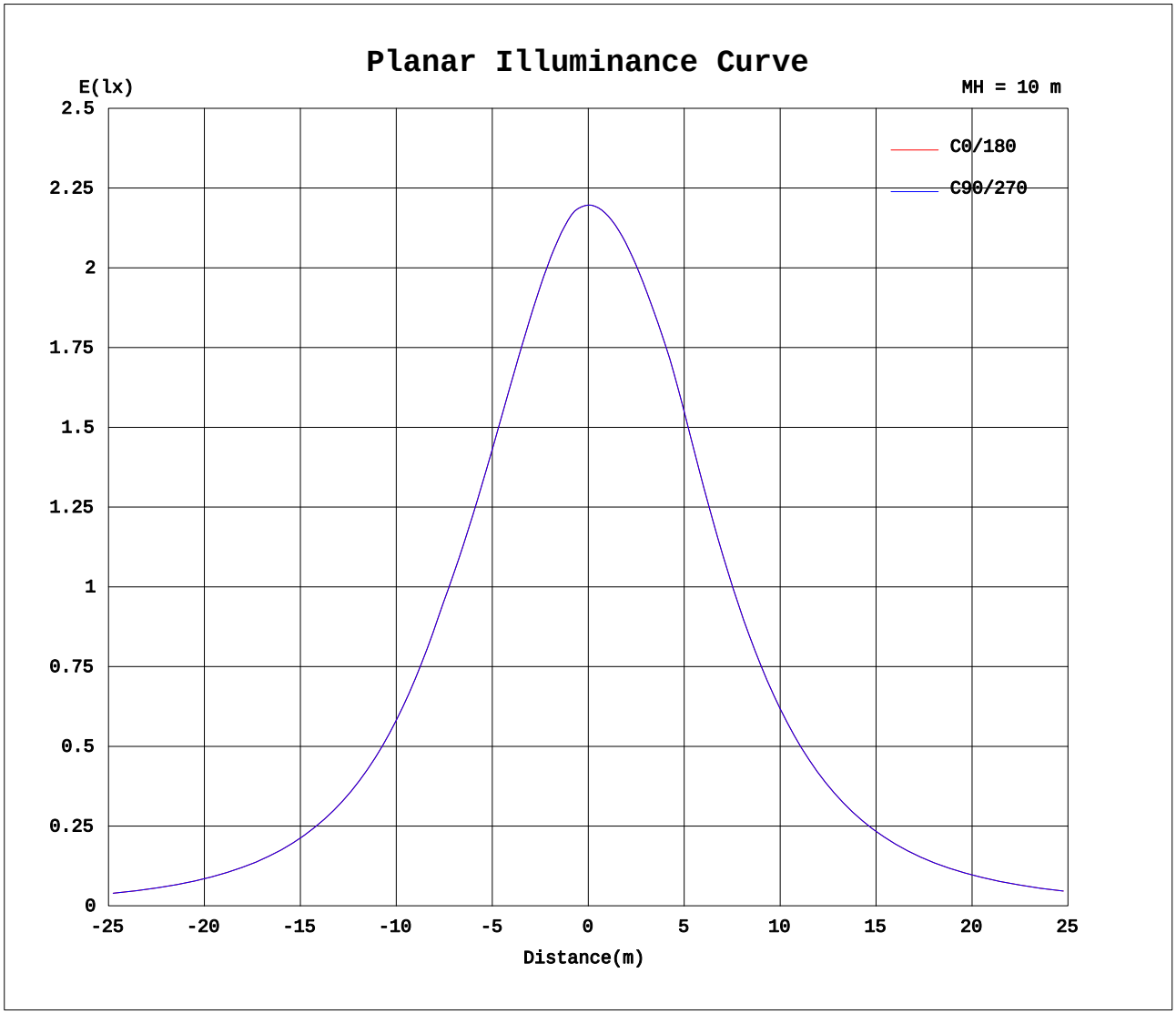
AvgL	cd/m2
L_0~180(65)av	22572
L_0~180(75)av	19849
L_0~180(85)av	15175
L_90~270(65)av	22572
L_90~270(75)av	19849
L_90~270(85)av	15175
L_45(65)av	22572
L_45(75)av	19849
L_45(85)av	15175

Standard: GB/T 29293-2012

C Range: 0 - 180DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Young
Test Date:2021-09-06

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:50.8%
Test Distance:3.154m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 180DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Young
Test Date:2021-09-06

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:50.8%
Test Distance:3.154m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:11.789V I:0.7482A P:8.8199W PF:1.0000 Freq:0Hz Lamp Flux:724.248x1 lm		
NAME: HCP-3221115	TYPE:/	WEIGHT:/
SPEC.:/	DIM.: /	SERIAL No.:1
MFR.: HAVIT COMMERCIAL	SUR.:1000mm*10mm	Shielding Angle:-

Table--1 UNIT: cd

C(DEG) / γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330
0	220	220	220	220	220	220	220	220	220	220	220	220
5	219	219	219	219	219	219	220	220	220	220	220	220
10	216	216	216	216	216	216	220	220	220	220	220	220
15	212	212	212	212	212	212	220	220	220	220	220	220
20	207	207	207	207	207	207	220	220	220	220	220	220
25	202	202	202	202	202	202	218	218	218	218	218	218
30	196	196	196	196	196	196	211	211	211	211	211	211
35	190	190	190	190	190	190	200	200	200	200	200	200
40	179	179	179	179	179	179	189	189	189	189	189	189
45	165	165	165	165	165	165	175	175	175	175	175	175
50	148	148	148	148	148	148	159	159	159	159	159	159
55	130	130	130	130	130	130	142	142	142	142	142	142
60	110	110	110	110	110	110	123	123	123	123	123	123
65	88.8	88.8	88.8	88.8	88.8	88.8	102	102	102	102	102	102
70	66.8	66.8	66.8	66.8	66.8	66.8	80.2	80.2	80.2	80.2	80.2	80.2
75	44.8	44.8	44.8	44.8	44.8	44.8	57.9	57.9	57.9	57.9	57.9	57.9
80	24.6	24.6	24.6	24.6	24.6	24.6	36.2	36.2	36.2	36.2	36.2	36.2
85	8.92	8.92	8.92	8.92	8.92	8.92	17.5	17.5	17.5	17.5	17.5	17.5
90	0.82	0.82	0.82	0.82	0.82	0.82	3.51	3.51	3.51	3.51	3.51	3.51
95	0.68	0.68	0.68	0.68	0.68	0.68	0.77	0.77	0.77	0.77	0.77	0.77
100	0.66	0.66	0.66	0.66	0.66	0.66	0.76	0.76	0.76	0.76	0.76	0.76
105	0.70	0.70	0.70	0.70	0.70	0.70	0.82	0.82	0.82	0.82	0.82	0.82
110	0.83	0.83	0.83	0.83	0.83	0.83	0.93	0.93	0.93	0.93	0.93	0.93
115	1.00	1.00	1.00	1.00	1.00	1.00	1.06	1.06	1.06	1.06	1.06	1.06
120	1.16	1.16	1.16	1.16	1.16	1.16	1.19	1.19	1.19	1.19	1.19	1.19
125	1.31	1.31	1.31	1.31	1.31	1.31	1.33	1.33	1.33	1.33	1.33	1.33
130	1.39	1.39	1.39	1.39	1.39	1.39	1.44	1.44	1.44	1.44	1.44	1.44
135	1.47	1.47	1.47	1.47	1.47	1.47	1.53	1.53	1.53	1.53	1.53	1.53
140	1.53	1.53	1.53	1.53	1.53	1.53	1.58	1.58	1.58	1.58	1.58	1.58
145	1.55	1.55	1.55	1.55	1.55	1.55	1.59	1.59	1.59	1.59	1.59	1.59
150	1.55	1.55	1.55	1.55	1.55	1.55	1.48	1.48	1.48	1.48	1.48	1.48
155	1.51	1.51	1.51	1.51	1.51	1.51	1.44	1.44	1.44	1.44	1.44	1.44
160	1.52	1.52	1.52	1.52	1.52	1.52	1.41	1.41	1.41	1.41	1.41	1.41
165	1.44	1.44	1.44	1.44	1.44	1.44	1.40	1.40	1.40	1.40	1.40	1.40
170	1.46	1.46	1.46	1.46	1.46	1.46	1.43	1.43	1.43	1.43	1.43	1.43
175	1.52	1.52	1.52	1.52	1.52	1.52	1.50	1.50	1.50	1.50	1.50	1.50
180	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58

C Range: 0 - 180DEG
C Interval: 30.0DEG
Test Speed: HIGH
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Operators:Young
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