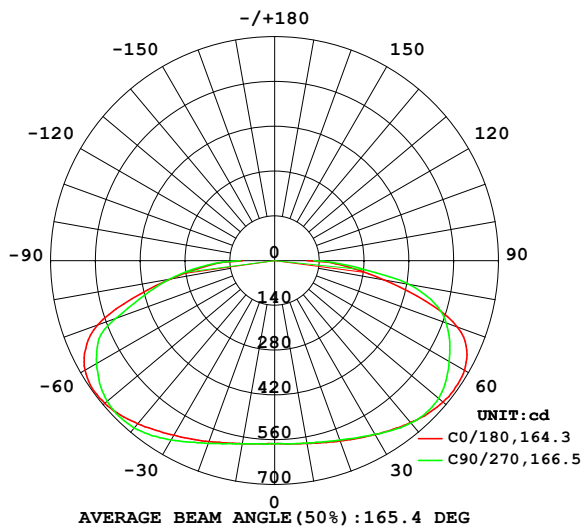


LUMINAIRE PHOTOMETRIC TEST REPORT

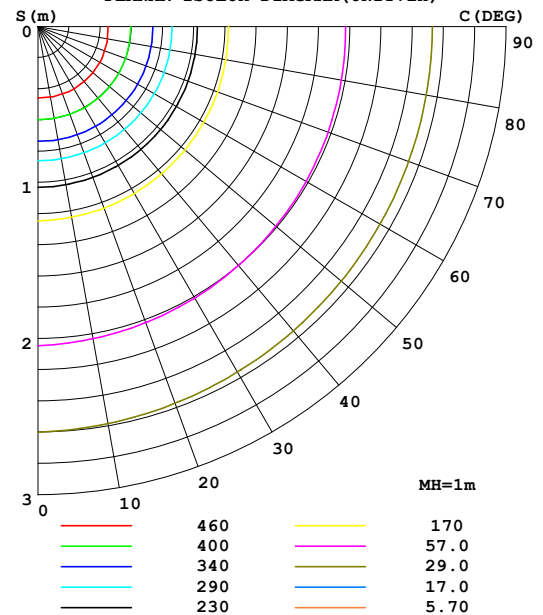
Test:U:240.4V I:0.1119A P:26.0W PF:0.9673 Freq:49.99Hz		
UTHDi:0.16% ITHDi:16.14% KDisp:0.9786 Lamp Flux:3431.25x1 lm		
NAME: HV5882T-26W-5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Havit Lighting	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 131.90 lm/W			
MODEL		Imax (cd)	696.5	S/MH(C0/180)	1.74
NOMINAL POWER(W)	26	LOR(%)	100.0	S/MH(C90/270)	1.78
RATED VOLTAGE(V)	240	TOTAL FLUX(lm)	3431.3	η UP,DN(C0-180)	0.0,50.3
NOMINAL FLUX(lm)	3431.25	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.7
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	2.00
TEST VOLTAGE(V)	240.31	η down (%)	100.0	CIBSE SHR MAX	2.00

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



PLANAR ISOLUX DIAGRAM(UNIT:lx)



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-09-12

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [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	580.2	581.4	579.0	579.4	581.1	580.2	581.4	581.5	0- 10	55.05	55.05	1.6,1.6
20	599.3	601.2	597.0	599.3	601.7	602.6	607.8	602.8	10- 20	167.6	222.7	6.49,6.49
30	627.8	632.5	626.9	625.9	630.0	635.6	647.0	636.8	20- 30	285.8	508.4	14.8,14.8
40	660.5	665.8	662.7	658.2	665.8	671.9	683.2	673.7	30- 40	409.2	917.6	26.7,26.7
50	687.8	679.4	669.0	678.9	693.6	691.1	683.7	692.9	40- 50	525.6	1443	42.1,42.1
60	685.1	652.7	630.0	669.7	684.6	675.1	642.8	670.1	50- 60	607.8	2051	59.8,59.8
70	608.5	573.6	571.4	611.0	589.2	567.0	527.9	551.8	60- 70	625.3	2676	78,78
80	347.3	351.1	426.5	389.1	329.4	351.7	334.3	330.3	70- 80	498.4	3175	92.5,92.5
90	101.3	84.35	122.4	109.5	100.8	129.5	107.4	102.3	80- 90	256.5	3431	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1167.3 lm

%lum = 34.0%

%lamp = 34.0%

Conical surface Flux(130deg): 2367.5 lm

%lum = 69.0%

%lamp = 69.0%

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-09-12

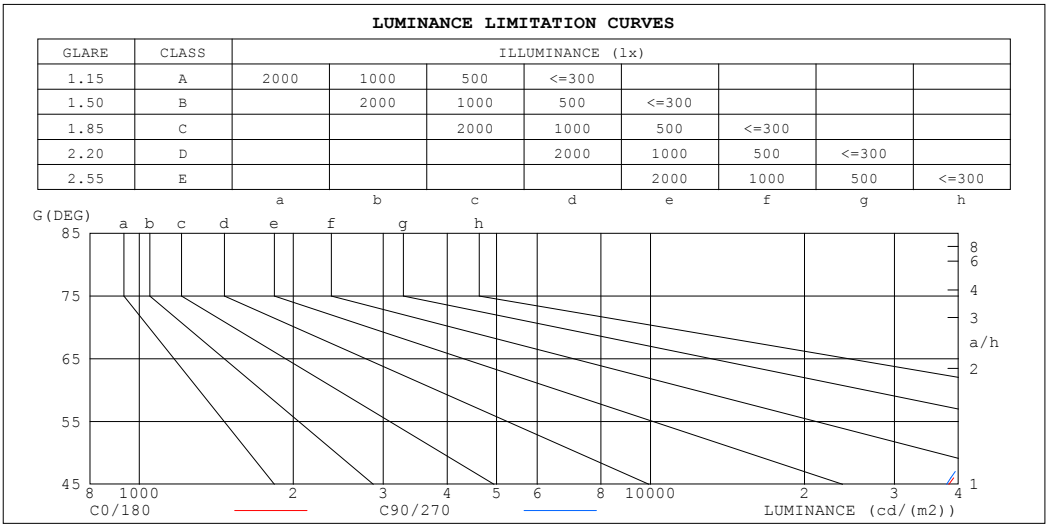
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

IES Indoor Report

Photometric Filename:HV5882T-26W-5000K.IES

LUMINANCE LIMITATION CURVES

Test:U:240.4V I:0.1119A P:26.0W PF:0.9673 Freq:49.99Hz		
UTHDi:0.16% ITHDi:16.14% KDisp:0.9786 Lamp Flux:3431.25x1 lm		
NAME: HV5882T-26W-5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Havit Lighting	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	106397	120263
80	80141	98182
75	75562	80063
70	71298	66786
65	62850	57124
60	54911	50370
55	48211	45596
50	42880	41607
45	38361	37943

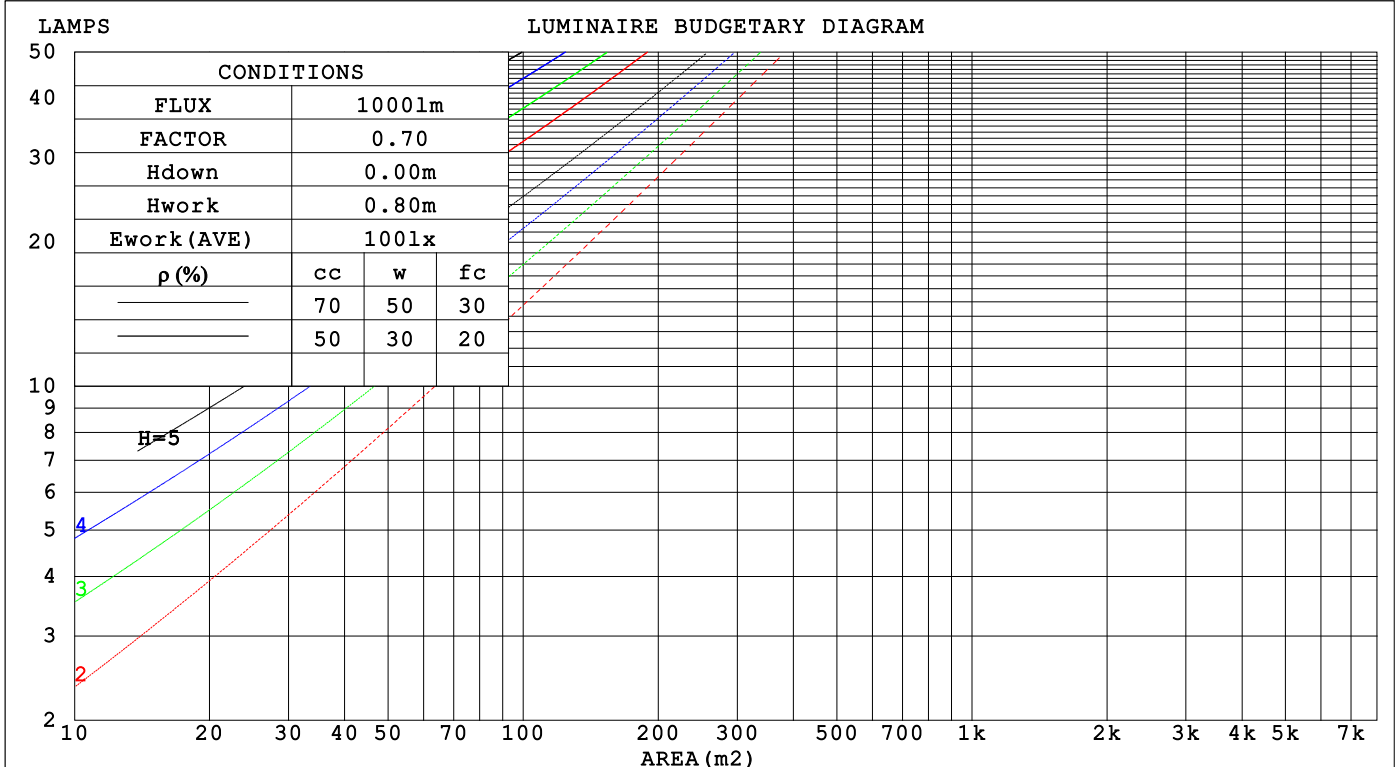
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-09-12

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:240.4V I:0.1119A P:26.0W PF:0.9673 Freq:49.99Hz			Lamp Flux:3431.25x1 lm		
UTHDi:0.16% ITHDi:16.14% KDisp:0.9786					
NAME: HV5882T-26W-5000K		TYPE:		WEIGHT:	
SPEC.:		DIM.:		SERIAL No.:	
MFR.: Havit Lighting		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	1.00
1.0	.98	.92	.86	.95	.90	.85	.91	.86	.82	.87	.83	.80	.83	.80	.77	.75
2.0	.82	.73	.65	.80	.72	.65	.76	.69	.63	.72	.67	.61	.69	.64	.60	.57
3.0	.70	.59	.51	.68	.58	.51	.65	.57	.50	.62	.55	.49	.59	.53	.48	.45
4.0	.60	.50	.41	.59	.49	.41	.56	.47	.40	.53	.46	.40	.51	.45	.39	.37
5.0	.53	.42	.34	.51	.42	.34	.49	.40	.34	.47	.39	.33	.45	.38	.33	.30
6.0	.47	.36	.29	.46	.36	.29	.44	.35	.29	.42	.34	.28	.40	.33	.28	.26
7.0	.42	.32	.25	.41	.32	.25	.39	.31	.25	.38	.30	.24	.36	.29	.24	.22
8.0	.38	.28	.22	.37	.28	.22	.36	.27	.21	.34	.27	.21	.33	.26	.21	.19
9.0	.34	.25	.19	.34	.25	.19	.33	.25	.19	.31	.24	.19	.30	.24	.19	.17
10.0	.32	.23	.17	.31	.23	.17	.30	.22	.17	.29	.22	.17	.28	.21	.17	.15



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2023-09-12

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
 Humidity:65.0%
 Test Distance:3.090m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:240.4V I:0.1119A P:26.0W PF:0.9673 Freq:49.99Hz			UTHDi:0.16% ITHDi:16.14% KDisp:0.9786			Lamp Flux:3431.25x1 lm		
NAME: HV5882T-26W-5000K		TYPE:		WEIGHT:				
SPEC.:		DIM.:		SERIAL No.:				
MFR.: Havit Lighting		SUR.:		Shielding Angle:				

pcc	80%			70%			50%			30%			10%			0														
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0														
pfc	20%			20%			20%			20%			20%			0														
RCR	RCR:Room Cavity Ratio															Wall Exitance Coefficients(WEC)														
0.0																														
1.0	.428	.243	.077	.420	.240	.076	.406	.233	.074	.394	.227	.073	.382	.221	.071															
2.0	.375	.206	.063	.369	.203	.063	.356	.198	.061	.345	.193	.061	.334	.189	.060															
3.0	.333	.177	.053	.327	.175	.053	.316	.171	.052	.305	.167	.051	.296	.164	.051															
4.0	.298	.155	.046	.293	.153	.045	.283	.150	.045	.274	.147	.044	.265	.144	.044															
5.0	.269	.137	.040	.264	.136	.040	.256	.133	.039	.247	.131	.039	.240	.128	.039															
6.0	.245	.123	.035	.241	.122	.035	.233	.119	.035	.226	.117	.034	.219	.115	.034															
7.0	.225	.111	.031	.221	.110	.031	.214	.108	.031	.208	.106	.031	.201	.105	.031															
8.0	.207	.101	.028	.204	.100	.028	.198	.099	.028	.192	.097	.028	.186	.096	.028															
9.0	.192	.093	.026	.189	.092	.026	.184	.091	.026	.179	.090	.026	.174	.088	.025															
10.0	.179	.086	.024	.177	.085	.024	.172	.084	.024	.167	.083	.024	.162	.082	.023															

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Ceiling Cavity Exitance Coefficients(CCEC)															
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.188	.155	.125	.161	.133	.108	.110	.092	.074	.063	.053	.043	.020	.017	.014	
2.0	.183	.132	.088	.157	.113	.076	.108	.078	.053	.062	.046	.031	.020	.015	.010	
3.0	.177	.115	.065	.151	.099	.057	.104	.069	.040	.060	.040	.023	.019	.013	.008	
4.0	.169	.102	.051	.145	.088	.044	.100	.061	.031	.058	.036	.018	.019	.012	.006	
5.0	.161	.092	.041	.138	.080	.036	.095	.056	.025	.055	.033	.015	.018	.011	.005	
6.0	.153	.084	.035	.131	.073	.030	.091	.051	.021	.053	.030	.013	.017	.010	.004	
7.0	.145	.077	.030	.125	.067	.026	.086	.047	.018	.050	.028	.011	.016	.009	.004	
8.0	.138	.072	.026	.119	.062	.023	.082	.044	.016	.048	.026	.010	.015	.008	.003	
9.0	.131	.067	.023	.113	.058	.020	.078	.041	.014	.046	.024	.009	.015	.008	.003	
10.0	.125	.062	.021	.107	.054	.018	.074	.038	.013	.043	.022	.008	.014	.007	.003	

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-09-12

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:240.4V I:0.1119A P:26.0W PF:0.9673 Freq:49.99Hz										
UTHDi:0.16% ITHDi:16.14% KDisp:0.9786 Lamp Flux:3431.25x1 lm										
NAME: HV5882T-26W-5000K					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: Havit Lighting					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	26.9	28.7	27.2	28.9	29.2	26.6	28.4	26.9	28.6	28.9
3H	29.8	31.5	30.1	31.7	32.0	29.4	31.1	29.8	31.4	31.6
4H	31.1	32.7	31.4	32.9	33.2	30.9	32.5	31.2	32.8	33.0
6H	32.1	33.6	32.4	33.9	34.2	32.3	33.8	32.6	34.1	34.4
8H	32.5	34.0	32.9	34.3	34.6	32.9	34.3	33.2	34.6	35.0
12H	32.9	34.4	33.3	34.7	35.0	33.4	34.8	33.7	35.1	35.4
4H 2H	27.9	29.5	28.2	29.7	30.0	27.7	29.3	28.0	29.5	29.8
3H	30.9	32.3	31.2	32.6	32.9	30.6	32.0	31.0	32.3	32.7
4H	32.3	33.6	32.7	33.9	34.3	32.2	33.5	32.6	33.8	34.2
6H	33.4	34.6	33.8	35.0	35.4	33.7	34.9	34.1	35.2	35.6
8H	33.9	35.1	34.4	35.4	35.8	34.3	35.5	34.8	35.8	36.2
12H	34.5	35.5	34.9	35.9	36.3	34.9	35.9	35.3	36.3	36.8
8H 4H	32.8	33.9	33.2	34.3	34.7	32.7	33.9	33.2	34.2	34.6
6H	34.2	35.1	34.6	35.5	36.0	34.4	35.4	34.9	35.8	36.2
8H	34.8	35.7	35.3	36.1	36.6	35.2	36.1	35.7	36.5	37.0
12H	35.5	36.2	36.0	36.7	37.2	35.9	36.7	36.4	37.1	37.6
12H 4H	32.9	33.9	33.3	34.3	34.7	32.8	33.9	33.3	34.3	34.7
6H	34.4	35.2	34.8	35.6	36.1	34.6	35.4	35.1	35.9	36.3
8H	35.1	35.8	35.6	36.3	36.8	35.4	36.2	35.9	36.6	37.1
Variations with the observer position at spacings(CIE Pub.117):										
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 / - 0.4					+ 0.2 / - 0.4				

CIE Pub.117, 3431 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 4.3)
Area: 0.025 m2

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-09-12

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:240.4V I:0.1119A P:26.0W PF:0.9673 Freq:49.99Hz		
UTHDi:0.16% ITHDi:16.14% KDisp:0.9786 Lamp Flux:3431.25x1 lm		
NAME: HV5882T-26W-5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Havit Lighting	SUR.:	Shielding Angle:

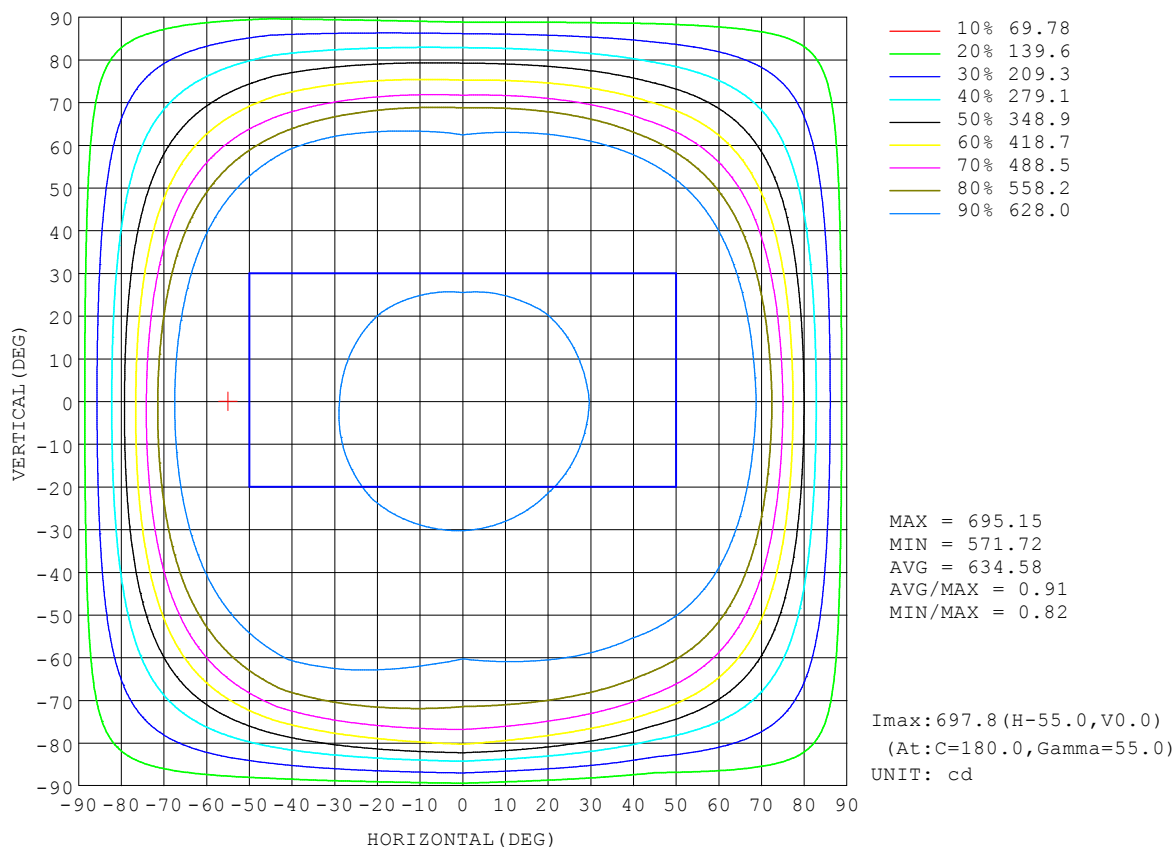
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	48	35	27	47	34	26	46	34	26	19
0.80	57	43	35	56	43	35	54	42	34	26
1.00	66	52	43	64	51	43	62	53	42	34
1.25	73	60	51	71	59	50	68	57	49	41
1.50	78	66	57	77	65	56	73	63	55	46
2.00	86	75	67	84	74	66	80	71	64	55
2.50	91	81	73	89	80	72	85	77	70	60
3.00	96	86	79	93	85	78	89	82	76	66
4.00	101	93	86	98	91	85	93	88	82	72
5.00	104	97	92	101	95	90	96	91	87	77
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-09-12

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 γ Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:240.4V I:0.1119A P:26.0W PF:0.9673 Freq:49.99Hz UTHDi:0.16% ITHDi:16.14% KDisp:0.9786 Lamp Flux:3431.25x1 lm		
NAME: HV5882T-26W-5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Havit Lighting	SUR.:	Shielding Angle:

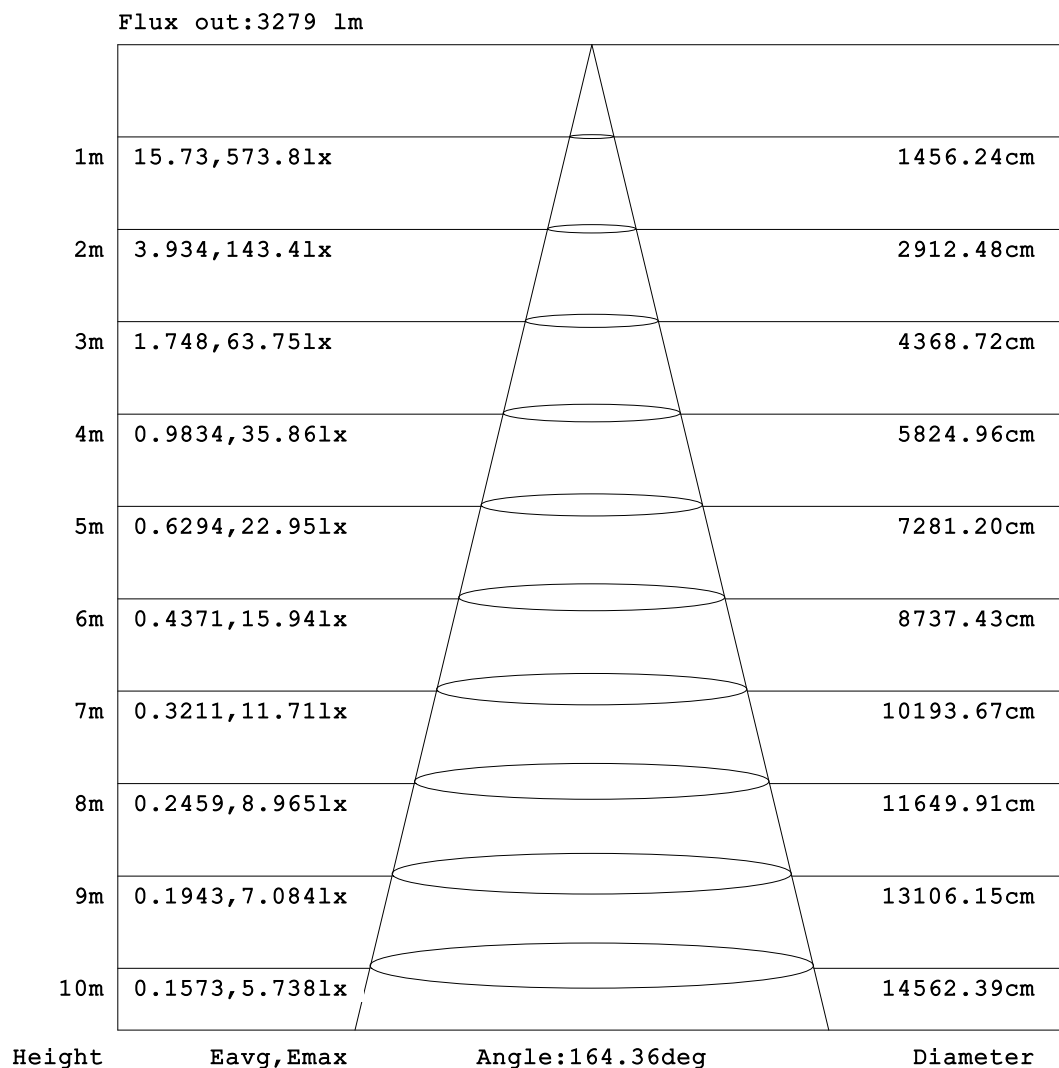


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-09-12

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

AAI Figure

Test:U:240.4V I:0.1119A P:26.0W PF:0.9673 Freq:49.99Hz		
UTHDi:0.16% ITHDi:16.14% KDisp:0.9786 Lamp Flux:3431.25x1 lm		
NAME: HV5882T-26W-5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Havit Lighting	SUR.:	Shielding Angle:

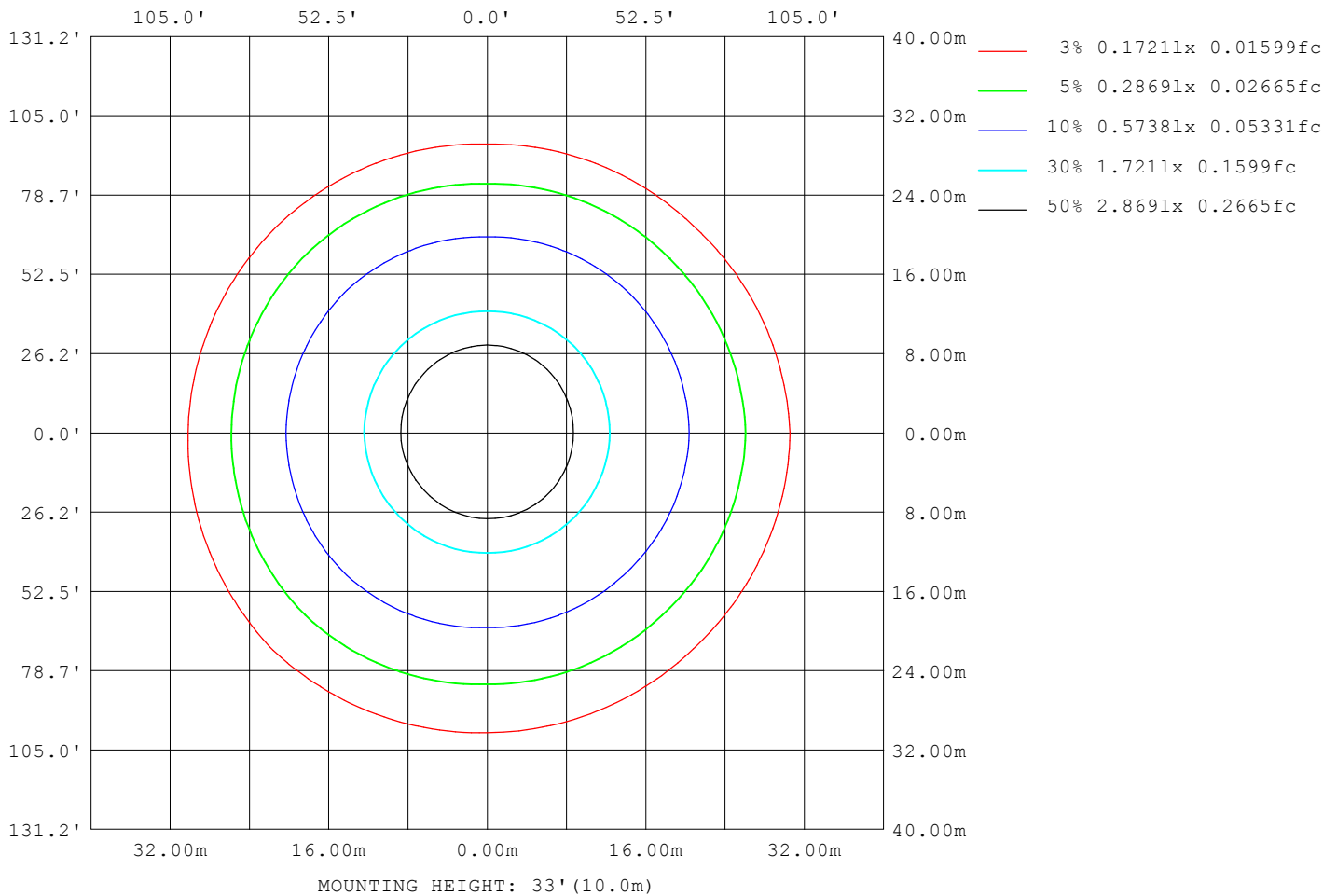


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-09-12

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:240.4V I:0.1119A P:26.0W PF:0.9673 Freq:49.99Hz		
UTHDi:0.16% ITHDi:16.14% KDisp:0.9786 Lamp Flux:3431.25x1 lm		
NAME: HV5882T-26W-5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Havit Lighting	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2023-09-12

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
 Humidity:65.0%
 Test Distance:3.090m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:240.4V I:0.1119A P:26.0W PF:0.9673 Freq:49.99Hz UTHDi:0.16% ITHDi:16.14% KDisp:0.9786 Lamp Flux:3431.25x1 lm		
NAME: HV5882T-26W-5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Havit Lighting	SUR.:	Shielding Angle:

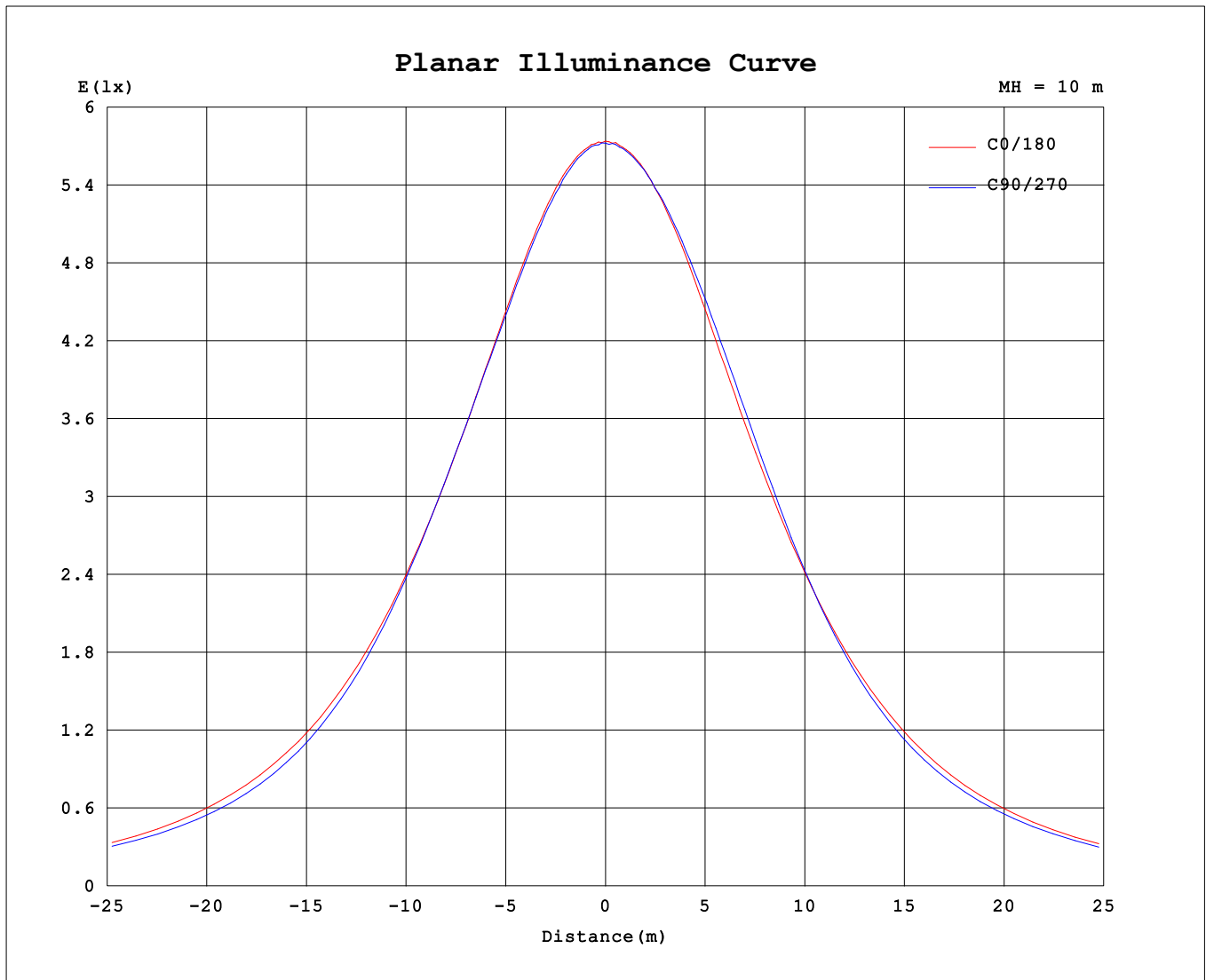
AvgL	cd/m2
L_0~180 (65) av	62222
L_0~180 (75) av	73425
L_0~180 (85) av	103870
L_90~270 (65) av	57402
L_90~270 (75) av	72697
L_90~270 (85) av	113713
L_45 (65) av	60438
L_45 (75) av	73672
L_45 (85) av	106874

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-09-12

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2023-09-12

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity: 65.0%
Test Distance: 3.090m [K=1.0000]
Remarks:

Test:U:240.4V I:0.1119A P:26.0W PF:0.9673 Freq:49.99Hz UTHDi:0.16% ITHDi:16.14% KDisp:0.9786 Lamp Flux:3431.25x1 lm		
NAME: HV5882T-26W-5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Havit Lighting	SUR.:	Shielding Angle:

UNIT: cd

[illegible]

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

```