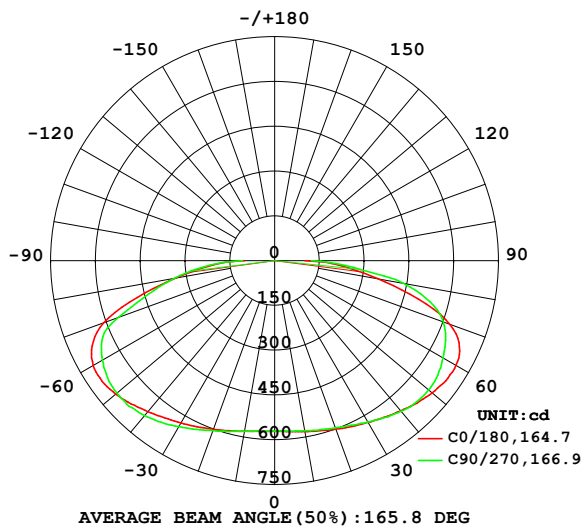


LUMINAIRE PHOTOMETRIC TEST REPORT

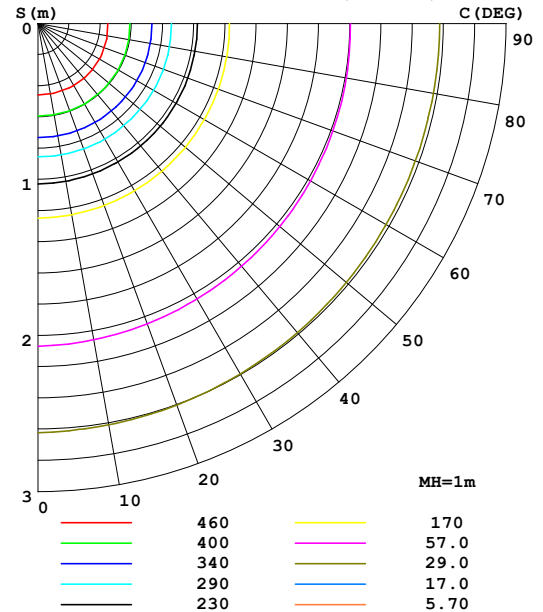
Test:U:240.4V I:0.1091A P:25.3W PF:0.9657 Freq:49.99Hz		
UTHDi:0.18% ITHDi:16.50% KDisp:0.9796 Lamp Flux:3479.94x1 lm		
NAME: HV5882T-26W-4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Havit Lighting	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 137.47 lm/W			
MODEL		Imax (cd)	705.8	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)	3479.9	η UP,DN(C0-180)	0.0,50.3
NOMINAL FLUX(lm)	3479.94	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)	240.34	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	581.4	582.5	578.7	579.0	579.7	579.1	580.9	581.4	0- 10	54.98	54.98	1.58,1.58
20	600.7	600.4	596.0	597.4	601.4	602.0	606.4	602.5	10- 20	167.5	222.5	6.39,6.39
30	625.3	628.5	624.1	623.1	627.4	631.3	642.0	632.3	20- 30	284.8	507.3	14.6,14.6
40	657.0	659.2	658.4	653.4	660.5	664.8	677.7	668.3	30- 40	406.1	913.4	26.2,26.2
50	689.2	680.5	674.1	679.8	695.2	690.1	690.1	697.5	40- 50	524.0	1437	41.3,41.3
60	701.0	672.1	651.8	689.6	702.2	691.8	666.4	692.8	50- 60	617.9	2055	59.1,59.1
70	624.6	600.0	601.3	637.6	609.3	595.1	557.1	580.2	60- 70	650.0	2705	77.7,77.7
80	350.8	358.8	437.0	395.1	336.0	358.1	340.7	335.1	70- 80	515.0	3220	92.5,92.5
90	101.7	83.61	122.8	109.3	101.6	130.3	107.6	101.8	80- 90	259.6	3480	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): 1161.6 lm

%lum = 33.4%

%lamp = 33.4%

Conical surface Flux(130deg): 2383.1 lm

%lum = 68.5%

%lamp = 68.5%

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

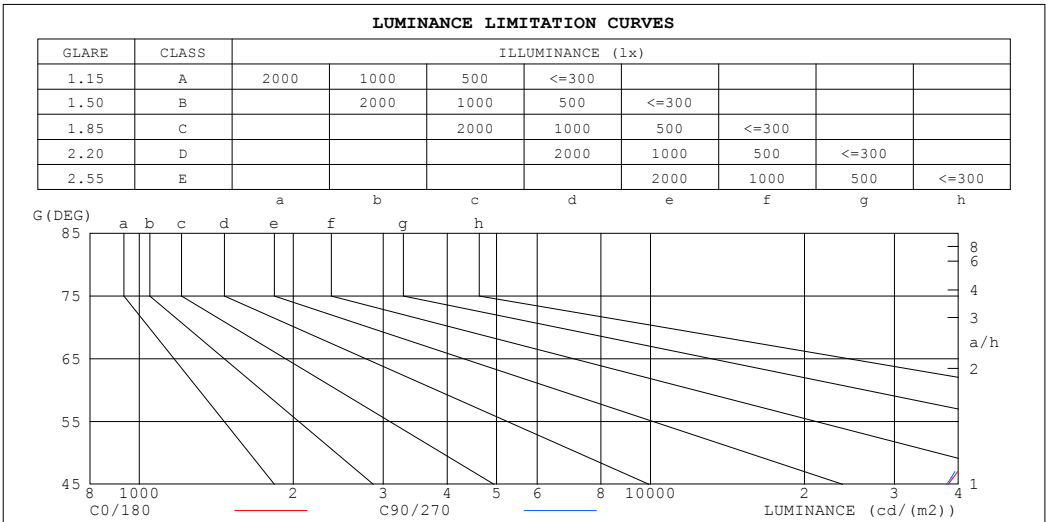
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

IES Indoor Report

Photometric Filename:HV5882T-26W-4000K.IES

LUMINANCE LIMITATION CURVES

Test:U:240.4V I:0.1091A P:25.3W PF:0.9657 Freq:49.99Hz		
UTHDi:0.18% ITHDi:16.50% KDisp:0.9796 Lamp Flux:3479.94x1 lm		
NAME: HV5882T-26W-4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Havit Lighting	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	106730	121862
80	80932	100645
75	77093	83581
70	73155	70300
65	64759	59776
60	56166	52132
55	48930	46530
50	42950	41934
45	38217	37940

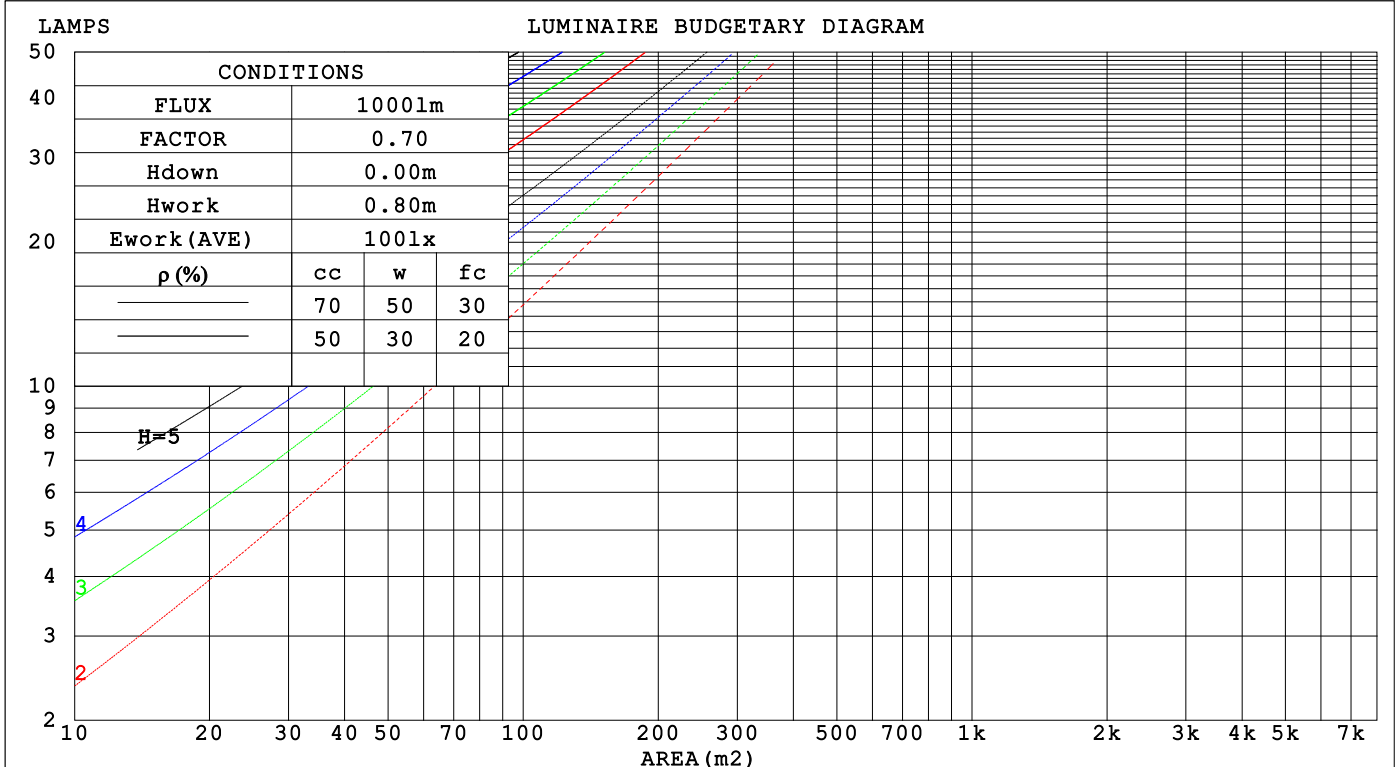
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-09-12

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:0.1091A P:25.3W PF:0.9657 Freq:49.99Hz		
UTHDi:0.18% ITHDi:16.50% KDisp:0.9796		Lamp Flux:3479.94x1 lm
NAME: HV5882T-26W-4000K	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	.79	.83	.80	.77	.75
2.0	.82	.73	.65	.80	.71	.64	.76	.69	.63	.72	.66	.61	.69	.64	.60	.57
3.0	.69	.59	.51	.68	.58	.50	.64	.56	.49	.61	.54	.48	.59	.53	.48	.45
4.0	.60	.49	.41	.58	.48	.41	.56	.47	.40	.53	.46	.39	.51	.44	.39	.36
5.0	.52	.42	.34	.51	.41	.34	.49	.40	.33	.47	.39	.33	.45	.38	.32	.30
6.0	.46	.36	.29	.45	.36	.28	.43	.35	.28	.42	.34	.28	.40	.33	.28	.25
7.0	.42	.32	.25	.41	.31	.24	.39	.30	.24	.37	.30	.24	.36	.29	.24	.21
8.0	.38	.28	.21	.37	.28	.21	.35	.27	.21	.34	.26	.21	.33	.26	.21	.19
9.0	.34	.25	.19	.34	.25	.19	.32	.24	.19	.31	.24	.19	.30	.23	.18	.16
10.0	.31	.23	.17	.31	.22	.17	.30	.22	.17	.29	.22	.17	.28	.21	.16	.14



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:0.1091A P:25.3W PF:0.9657 Freq:49.99Hz			UTHDi:0.18% ITHDi:16.50% KDisp:0.9796			Lamp Flux:3479.94x1 lm		
NAME: HV5882T-26W-4000K			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	.430	.245	.077	.423	.241	.077	.409	.235	.075	.396	.228	.073	.384	.223	.072															
2.0	.377	.207	.063	.371	.204	.063	.358	.199	.062	.347	.194	.061	.336	.190	.060															
3.0	.335	.178	.053	.329	.176	.053	.318	.172	.052	.307	.168	.052	.298	.165	.051															
4.0	.299	.156	.046	.294	.154	.045	.284	.151	.045	.275	.148	.045	.266	.145	.044															
5.0	.270	.138	.040	.266	.136	.040	.257	.134	.039	.249	.131	.039	.241	.129	.039															
6.0	.246	.123	.035	.242	.122	.035	.234	.120	.035	.227	.118	.035	.220	.116	.034															
7.0	.225	.111	.032	.222	.110	.031	.215	.109	.031	.208	.107	.031	.202	.105	.031															
8.0	.208	.102	.029	.205	.101	.028	.198	.099	.028	.193	.098	.028	.187	.096	.028															
9.0	.193	.093	.026	.190	.093	.026	.184	.091	.026	.179	.090	.026	.174	.088	.026															
10.0	.180	.086	.024	.177	.085	.024	.172	.084	.024	.167	.083	.024	.163	.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	.189	.155	.125	.161	.133	.107	.110	.092	.074	.064	.053	.043	.020	.017	.014	
2.0	.184	.131	.088	.157	.113	.076	.108	.078	.053	.062	.046	.031	.020	.015	.010	
3.0	.177	.115	.065	.152	.099	.056	.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	.034	.132	.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	.008	.015	.008	.003	
10.0	.125	.062	.021	.107	.054	.018	.075	.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:0.1091A P:25.3W PF:0.9657 Freq:49.99Hz											
UTHDi:0.18% ITHDi:16.50% KDisp:0.9796					Lamp Flux:3479.94x1 lm						
NAME: HV5882T-26W-4000K					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	2H	27.0	28.8	27.3	29.0	29.3	26.8	28.5	27.0	28.8	29.0
	3H	29.9	31.6	30.3	31.9	32.1	29.7	31.3	30.0	31.6	31.8
	4H	31.2	32.8	31.5	33.1	33.4	31.1	32.7	31.5	33.0	33.3
	6H	32.2	33.7	32.5	34.0	34.3	32.5	34.0	32.8	34.3	34.6
	8H	32.6	34.1	33.0	34.4	34.7	33.1	34.5	33.4	34.8	35.2
	12H	33.0	34.4	33.4	34.8	35.1	33.5	35.0	33.9	35.3	35.6
4H	2H	28.0	29.6	28.3	29.9	30.2	27.8	29.4	28.2	29.7	30.0
	3H	31.0	32.5	31.4	32.8	33.1	30.8	32.3	31.2	32.6	32.9
	4H	32.4	33.7	32.8	34.1	34.4	32.4	33.7	32.8	34.1	34.4
	6H	33.6	34.8	34.0	35.1	35.5	33.9	35.1	34.3	35.5	35.8
	8H	34.0	35.2	34.5	35.6	36.0	34.5	35.7	35.0	36.0	36.4
	12H	34.5	35.6	35.0	36.0	36.4	35.1	36.1	35.5	36.5	36.9
8H	4H	33.0	34.1	33.4	34.5	34.9	33.0	34.1	33.4	34.5	34.9
	6H	34.3	35.3	34.8	35.7	36.1	34.6	35.6	35.1	36.0	36.4
	8H	34.9	35.8	35.4	36.2	36.7	35.4	36.3	35.9	36.7	37.1
	12H	35.6	36.3	36.1	36.8	37.3	36.1	36.8	36.6	37.3	37.8
12H	4H	33.0	34.1	33.5	34.5	34.9	33.0	34.1	33.5	34.5	34.9
	6H	34.5	35.3	34.9	35.8	36.2	34.8	35.6	35.2	36.1	36.5
	8H	35.2	35.9	35.7	36.4	36.9	35.6	36.4	36.1	36.8	37.3
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 / - 0.3				

CIE Pub.117, 3480 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:0.1091A P:25.3W PF:0.9657 Freq:49.99Hz		
UTHDi:0.18% ITHDi:16.50% KDisp:0.9796 Lamp Flux:3479.94x1 lm		
NAME: HV5882T-26W-4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Havit Lighting	SUR.:	Shielding Angle:

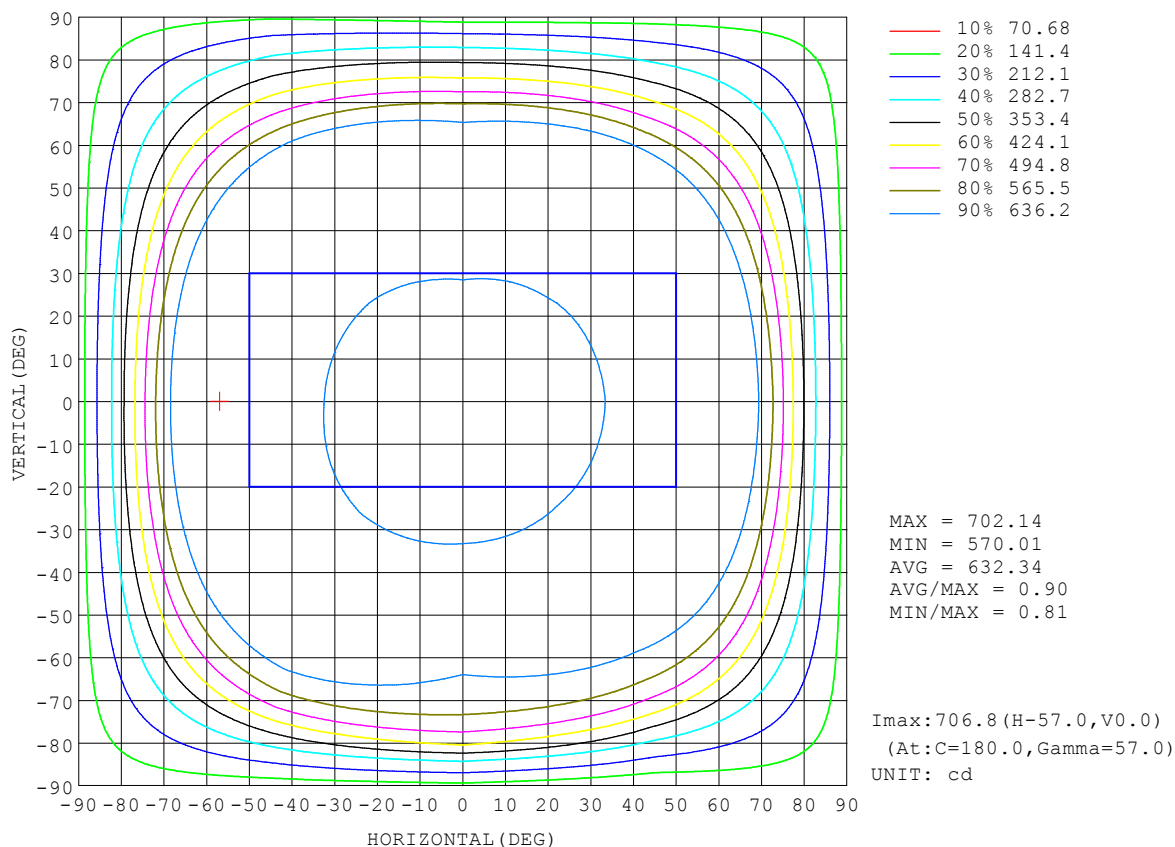
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	48	34	26	47	34	26	45	33	26	19
0.80	57	43	34	56	43	34	54	42	34	26
1.00	65	52	42	64	51	42	61	53	42	33
1.25	73	59	50	71	59	50	68	57	49	40
1.50	78	65	56	76	64	56	73	62	55	46
2.00	86	75	66	84	74	66	80	71	64	54
2.50	91	81	73	89	79	72	85	77	70	60
3.00	95	86	79	93	84	78	88	81	75	65
4.00	101	93	86	98	91	85	93	87	82	72
5.00	104	97	91	101	95	90	96	91	87	77
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHR NOM = 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:0.1091A P:25.3W PF:0.9657 Freq:49.99Hz		
UTHDi:0.18% ITHDi:16.50% KDisp:0.9796 Lamp Flux:3479.94x1 lm		
NAME: HV5882T-26W-4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Havit Lighting	SUR.:	Shielding Angle:

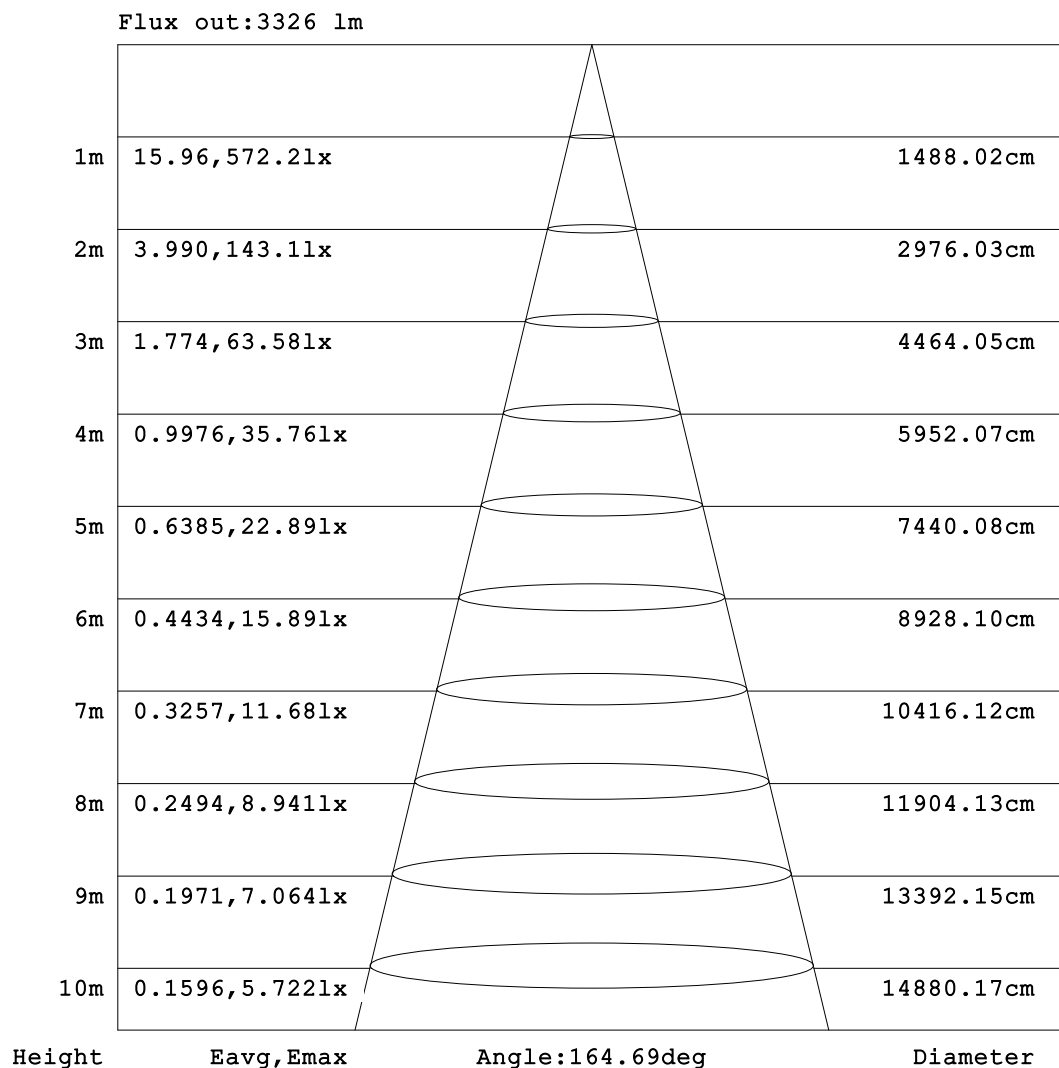


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-09-12

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:0.1091A P:25.3W PF:0.9657 Freq:49.99Hz		
UTHDi:0.18% ITHDi:16.50% KDisp:0.9796 Lamp Flux:3479.94x1 lm		
NAME: HV5882T-26W-4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Havit Lighting	SUR.:	Shielding Angle:



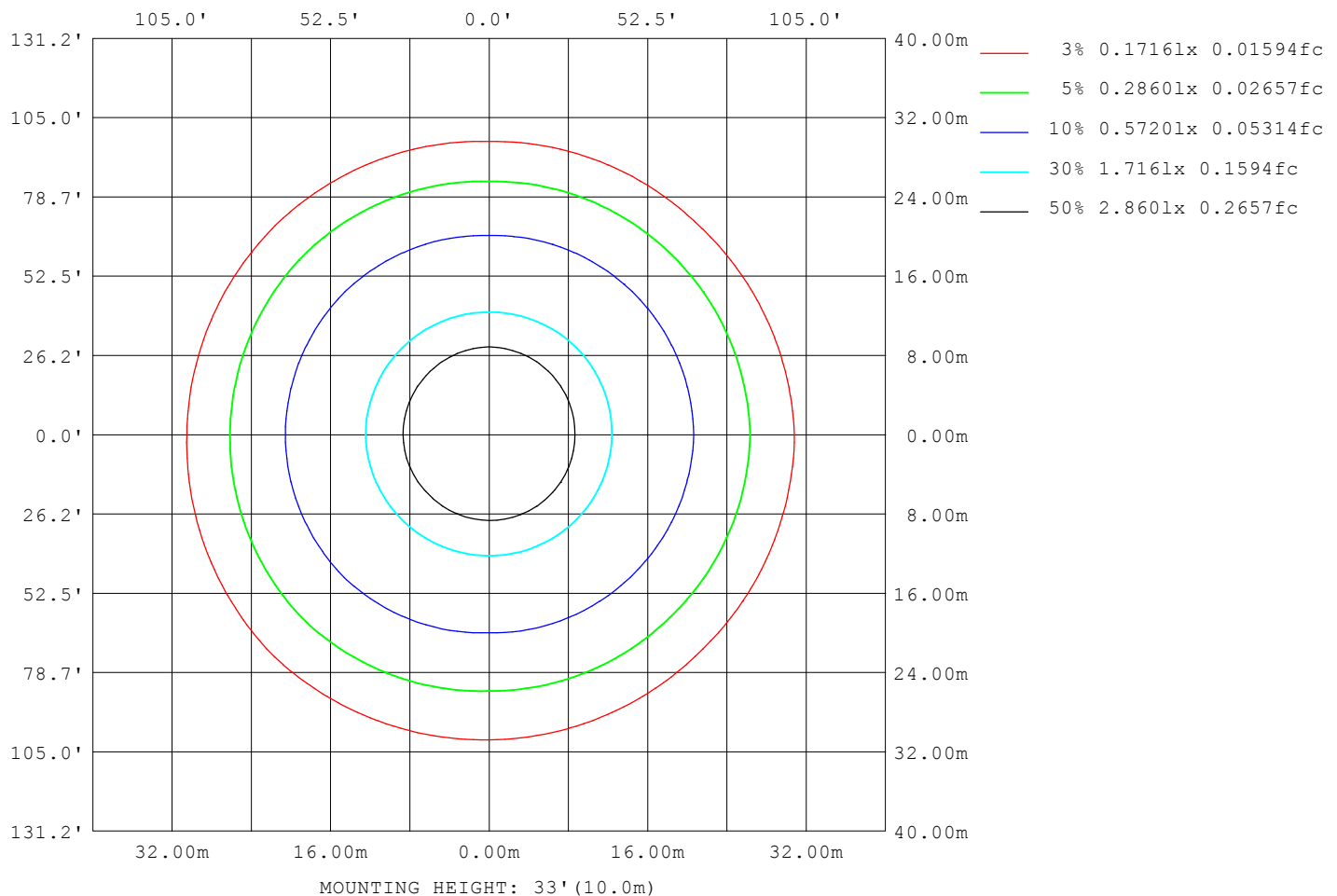
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.1091A P:25.3W PF:0.9657 Freq:49.99Hz		
UTHDi:0.18% ITHDi:16.50% KDisp:0.9796 Lamp Flux:3479.94x1 lm		
NAME: HV5882T-26W-4000K	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:0.1091A P:25.3W PF:0.9657 Freq:49.99Hz UTHDi:0.18% ITHDi:16.50% KDisp:0.9796 Lamp Flux:3479.94x1 lm		
NAME: HV5882T-26W-4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Havit Lighting	SUR.:	Shielding Angle:

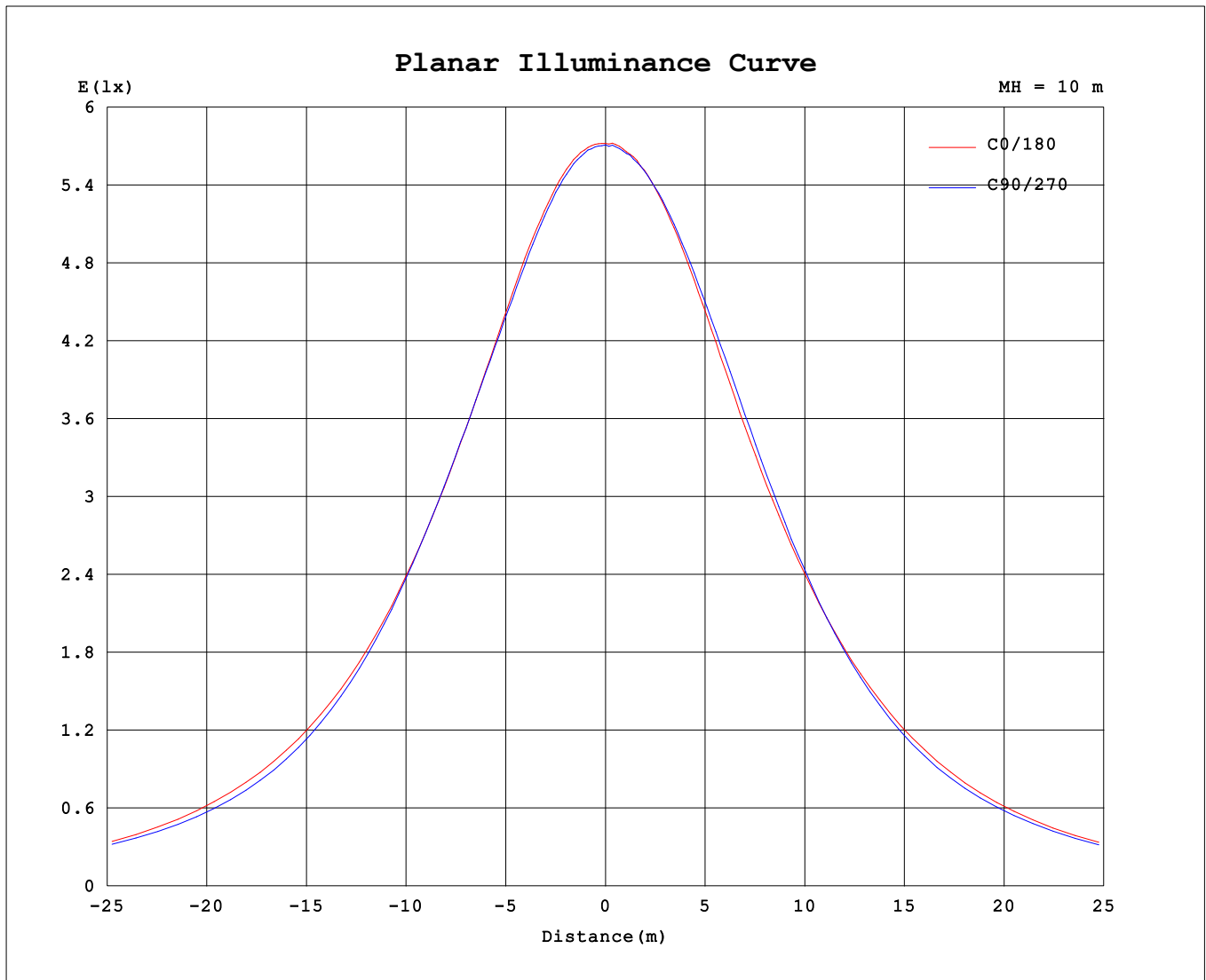
AvgL	cd/m2
L_0~180 (65) av	64272
L_0~180 (75) av	75316
L_0~180 (85) av	104829
L_90~270 (65) av	60128
L_90~270 (75) av	75669
L_90~270 (85) av	115310
L_45 (65) av	63004
L_45 (75) av	76018
L_45 (85) av	107809

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:0.1091A P:25.3W PF:0.9657 Freq:49.99Hz UTHDi:0.18% ITHDi:16.50% KDisp:0.9796 Lamp Flux:3479.94x1 lm		
NAME: HV5882T-26W-4000K	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:

```