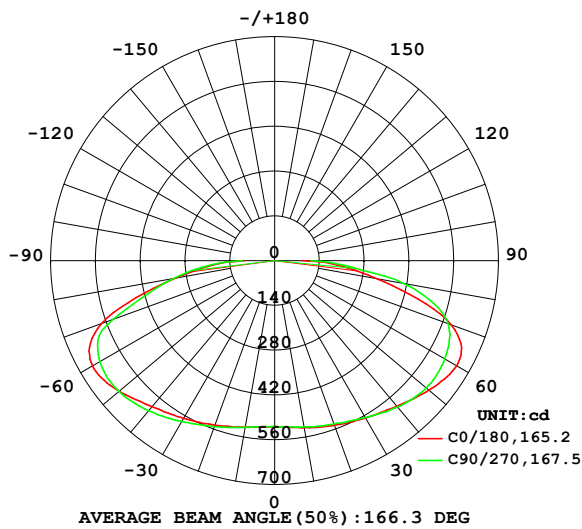


LUMINAIRE PHOTOMETRIC TEST REPORT

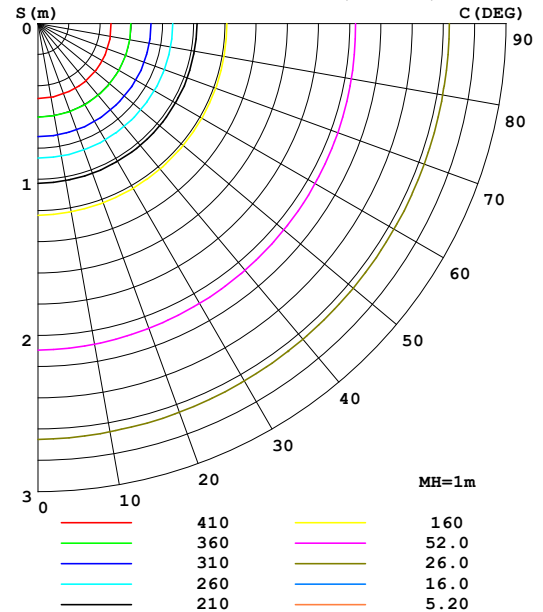
Test:U:240.4V I:0.1116A P:25.9W PF:0.9669 Freq:49.99Hz		
UTHDi:0.17% ITHDi:15.86% KDisp:0.9809 Lamp Flux:3220.8lx1 lm		
NAME: HV5882T-26W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Havit Lighting	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 124.21 lm/W			
MODEL		Imax (cd)	658.2	S/MH (C0/180)	1.73
NOMINAL POWER(W)	26	LOR (%)	100.0	S/MH (C90/270)	1.77
RATED VOLTAGE(V)	240	TOTAL FLUX(lm)	3220.8	η UP,DN (C0-180)	0.0,50.1
NOMINAL FLUX(lm)	3220.81	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,49.9
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	2.00
TEST VOLTAGE(V)	240.30	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	530.6	531.1	527.7	528.0	528.7	528.0	528.7	526.1	0- 10	50.03	50.03	1.55,1.55
20	547.3	548.0	543.7	544.3	547.0	549.0	552.5	545.7	10- 20	152.7	202.7	6.29,6.29
30	568.5	569.6	566.7	565.4	569.6	571.5	580.6	569.0	20- 30	258.6	461.3	14.3,14.3
40	594.2	595.0	597.5	593.0	596.4	598.6	612.4	599.7	30- 40	367.1	828.4	25.7,25.7
50	629.9	622.3	619.1	624.6	634.6	629.7	635.6	635.2	40- 50	475.7	1304	40.5,40.5
60	657.1	633.5	613.9	648.4	657.3	647.7	630.9	654.7	50- 60	573.2	1877	58.3,58.3
70	587.2	573.7	577.5	593.5	576.0	568.7	536.9	579.4	60- 70	617.5	2495	77.5,77.5
80	323.7	335.2	409.1	333.4	313.9	333.9	319.7	333.8	70- 80	486.0	2981	92.6,92.6
90	86.94	77.51	113.3	78.64	94.82	120.5	100.4	127.8	80- 90	239.9	3221	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): 1052.9 lm

%lum = 32.7%

%lamp = 32.7%

Conical surface Flux(130deg): 2187.5 lm

%lum = 67.9%

%lamp = 67.9%

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

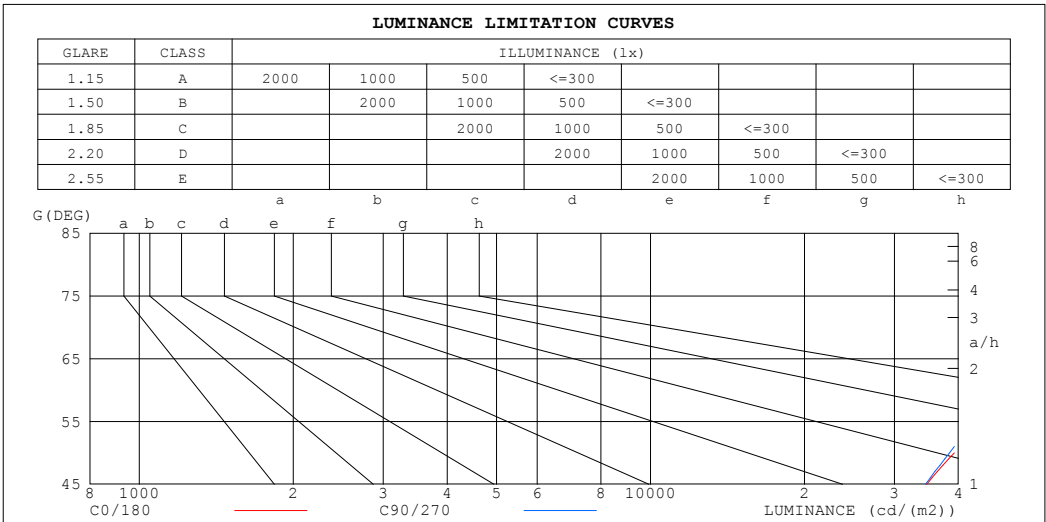
γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

IES Indoor Report

Photometric Filename:HV5882T-26W-3000K.IES

LUMINANCE LIMITATION CURVES

Test:U:240.4V I:0.1116A P:25.9W PF:0.9669 Freq:49.99Hz		
UTHDi:0.17% ITHDi:15.86% KDisp:0.9809 Lamp Flux:3220.81x1 lm		
NAME: HV5882T-26W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Havit Lighting	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	98052	112605
80	74747	94092
75	71992	79394
70	68847	67447
65	61151	56903
60	52700	49040
55	45237	43173
50	39301	38471
45	34683	34479

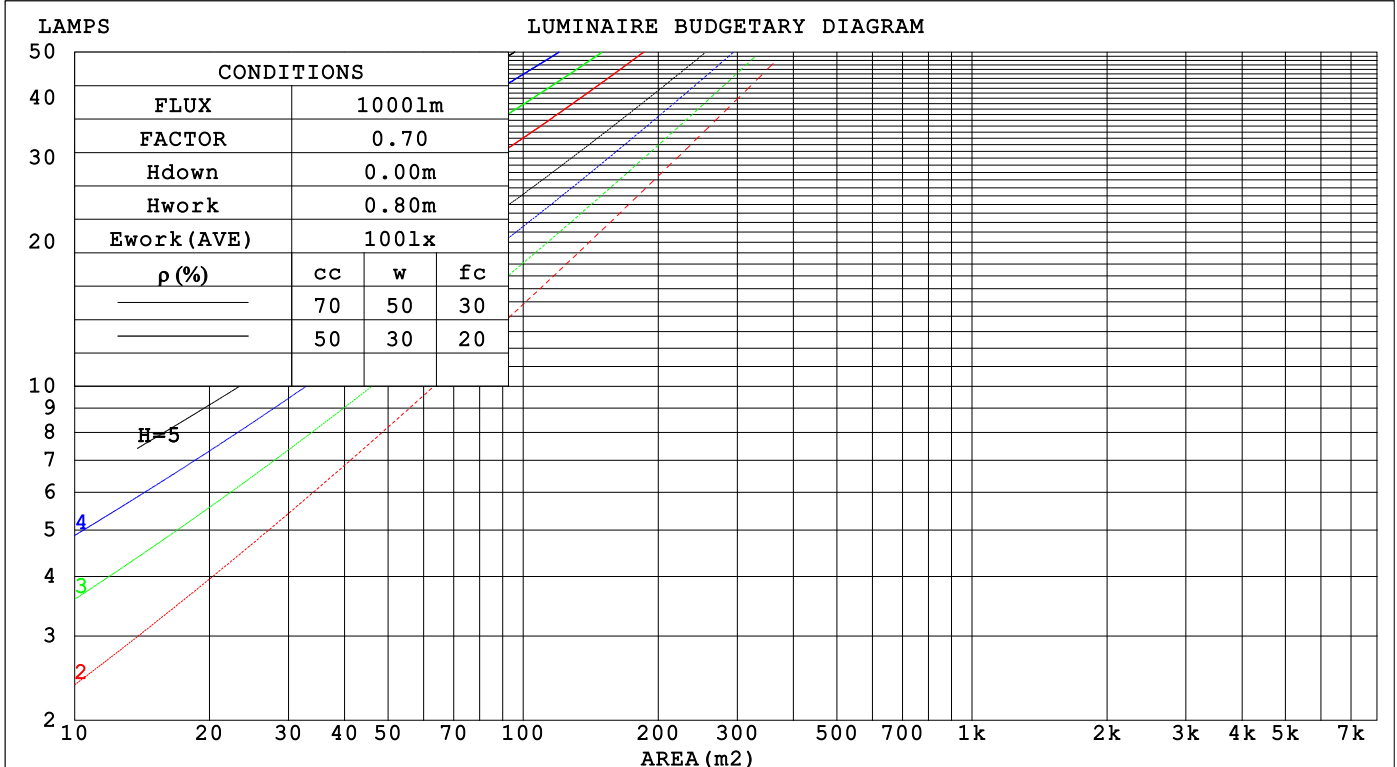
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-09-12

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:0.1116A P:25.9W PF:0.9669 Freq:49.99Hz		
UTHDi:0.17% ITHDi:15.86% KDisp:0.9809		Lamp Flux:3220.8lx1 lm
NAME: HV5882T-26W-3000K	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	.97	.91	.86	.95	.90	.85	.91	.86	.82	.87	.83	.79	.83	.80	.77	.74
2.0	.81	.72	.65	.79	.71	.64	.75	.68	.62	.72	.66	.61	.69	.64	.59	.57
3.0	.69	.59	.51	.67	.58	.50	.64	.56	.49	.61	.54	.48	.58	.52	.47	.45
4.0	.60	.49	.41	.58	.48	.40	.55	.47	.40	.53	.45	.39	.50	.44	.38	.36
5.0	.52	.41	.34	.51	.41	.33	.49	.40	.33	.46	.39	.32	.44	.38	.32	.30
6.0	.46	.36	.28	.45	.35	.28	.43	.34	.28	.41	.33	.27	.40	.33	.27	.25
7.0	.41	.31	.24	.40	.31	.24	.39	.30	.24	.37	.29	.24	.36	.29	.23	.21
8.0	.37	.28	.21	.37	.27	.21	.35	.27	.21	.34	.26	.21	.33	.26	.20	.18
9.0	.34	.25	.19	.33	.25	.19	.32	.24	.18	.31	.24	.18	.30	.23	.18	.16
10.0	.31	.22	.17	.31	.22	.16	.29	.22	.16	.28	.21	.16	.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:0.1116A P:25.9W PF:0.9669 Freq:49.99Hz		
UTHDi:0.17% ITHDi:15.86% KDisp:0.9809 Lamp Flux:3220.81x1 lm		
NAME: HV5882T-26W-3000K	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	.433	.246	.078	.425	.243	.077	.411	.236	.075	.399	.230	.074	.387	.224	.072															
2.0	.380	.208	.064	.373	.205	.063	.360	.200	.062	.349	.196	.061	.338	.191	.060															
3.0	.336	.179	.054	.331	.177	.053	.319	.173	.053	.309	.169	.052	.299	.166	.051															
4.0	.301	.156	.046	.296	.155	.046	.286	.152	.045	.276	.148	.045	.268	.146	.044															
5.0	.271	.138	.040	.267	.137	.040	.258	.134	.040	.250	.132	.039	.242	.129	.039															
6.0	.247	.124	.035	.243	.123	.035	.235	.120	.035	.228	.118	.035	.221	.116	.035															
7.0	.226	.112	.032	.222	.111	.032	.215	.109	.031	.209	.107	.031	.203	.105	.031															
8.0	.208	.102	.029	.205	.101	.029	.199	.099	.028	.193	.098	.028	.188	.096	.028															
9.0	.193	.093	.026	.190	.093	.026	.185	.091	.026	.180	.090	.026	.175	.089	.026															
10.0	.180	.086	.024	.177	.086	.024	.172	.084	.024	.168	.083	.024	.163	.082	.024															

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	.162	.133	.107	.110	.092	.074	.064	.053	.043	.020	.017	.014	
2.0	.184	.131	.087	.158	.113	.076	.108	.078	.053	.062	.046	.031	.020	.015	.010	
3.0	.177	.115	.065	.152	.099	.056	.104	.069	.039	.060	.040	.023	.019	.013	.008	
4.0	.170	.102	.051	.146	.088	.044	.100	.062	.031	.058	.036	.018	.019	.012	.006	
5.0	.162	.092	.041	.139	.080	.036	.096	.056	.025	.055	.033	.015	.018	.011	.005	
6.0	.154	.084	.034	.132	.073	.030	.091	.051	.021	.053	.030	.013	.017	.010	.004	
7.0	.146	.077	.029	.125	.067	.026	.087	.047	.018	.050	.028	.011	.016	.009	.004	
8.0	.138	.072	.026	.119	.062	.022	.082	.044	.016	.048	.026	.010	.016	.008	.003	
9.0	.131	.067	.023	.113	.058	.020	.078	.041	.014	.046	.024	.008	.015	.008	.003	
10.0	.125	.062	.021	.108	.054	.018	.075	.038	.013	.044	.023	.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:0.1116A P:25.9W PF:0.9669 Freq:49.99Hz											
UTHDi:0.17% ITHDi:15.86% KDisp:0.9809					Lamp Flux:3220.81x1 lm						
NAME: HV5882T-26W-3000K					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	26.8	28.6	27.1	28.8	29.1	26.6	28.4	26.8	28.6	28.8
	3H	29.8	31.5	30.1	31.7	32.0	29.6	31.2	29.9	31.5	31.8
	4H	31.0	32.6	31.4	32.9	33.2	31.0	32.6	31.4	32.9	33.2
	6H	32.0	33.5	32.3	33.8	34.1	32.4	33.9	32.7	34.2	34.5
	8H	32.4	33.9	32.8	34.2	34.5	32.9	34.4	33.3	34.7	35.0
	12H	32.8	34.2	33.2	34.5	34.9	33.4	34.8	33.7	35.1	35.4
4H	2H	27.8	29.4	28.2	29.7	30.0	27.7	29.3	28.0	29.5	29.8
	3H	30.9	32.3	31.3	32.7	33.0	30.8	32.2	31.1	32.5	32.8
	4H	32.3	33.6	32.7	33.9	34.3	32.3	33.7	32.7	34.0	34.3
	6H	33.4	34.6	33.8	34.9	35.3	33.8	35.0	34.2	35.3	35.7
	8H	33.9	35.0	34.3	35.4	35.8	34.4	35.5	34.8	35.9	36.3
	12H	34.3	35.4	34.8	35.8	36.2	34.9	36.0	35.4	36.4	36.8
8H	4H	32.8	33.9	33.2	34.3	34.7	32.9	34.0	33.3	34.4	34.8
	6H	34.1	35.1	34.6	35.5	35.9	34.5	35.5	34.9	35.9	36.3
	8H	34.7	35.6	35.2	36.0	36.5	35.2	36.1	35.7	36.5	37.0
	12H	35.4	36.1	35.8	36.6	37.1	35.9	36.7	36.4	37.1	37.6
12H	4H	32.9	33.9	33.3	34.3	34.8	32.9	34.0	33.4	34.4	34.8
	6H	34.3	35.2	34.8	35.6	36.0	34.6	35.5	35.1	35.9	36.4
	8H	35.0	35.7	35.5	36.2	36.7	35.4	36.2	35.9	36.7	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 / - 0.3				

CIE Pub.117, 3221 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 4.1)
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:0.1116A P:25.9W PF:0.9669 Freq:49.99Hz		
UTHDi:0.17% ITHDi:15.86% KDisp:0.9809 Lamp Flux:3220.8lx1 lm		
NAME: HV5882T-26W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Havit Lighting	SUR.:	Shielding Angle:

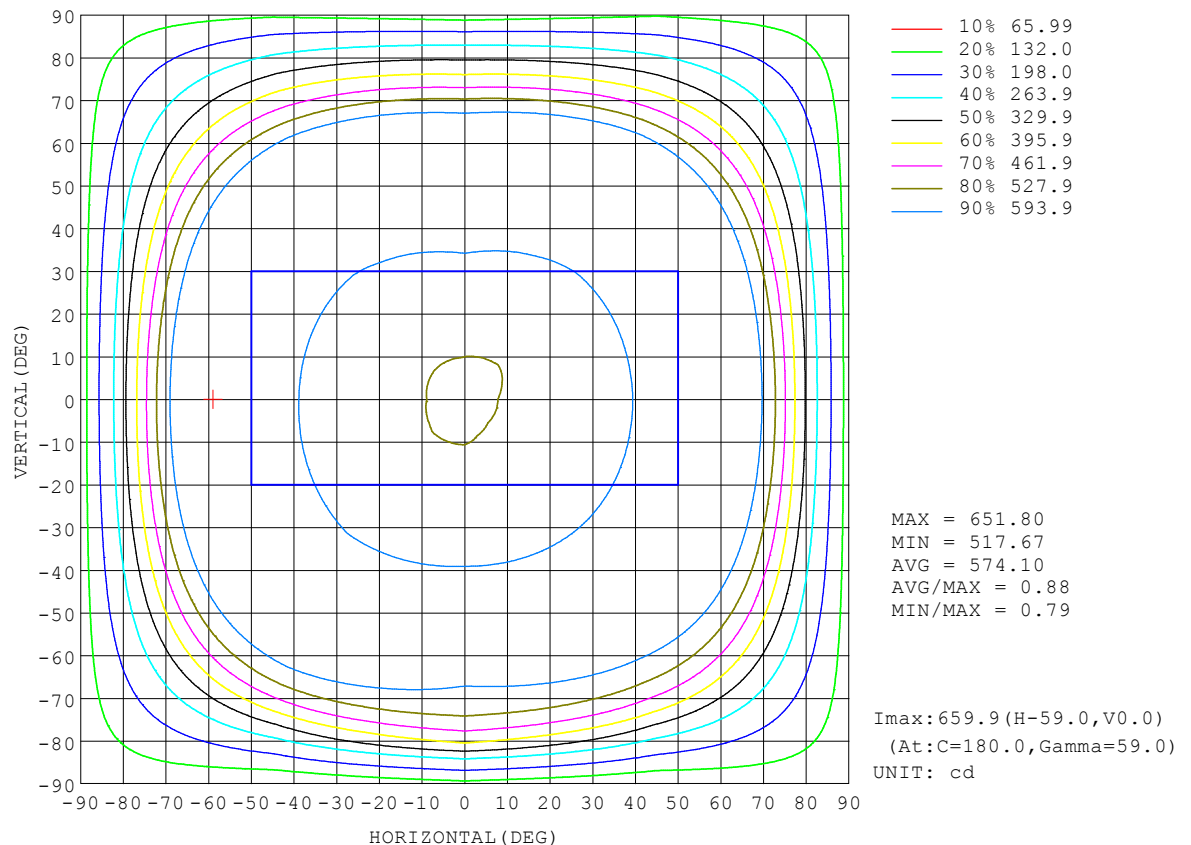
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	47	34	26	47	34	26	45	33	26	18
0.80	57	43	34	56	42	34	54	41	33	25
1.00	65	51	42	63	50	42	61	53	41	33
1.25	72	59	50	71	58	49	68	57	49	40
1.50	78	65	56	76	64	55	72	62	54	45
2.00	86	75	66	84	73	65	80	71	64	54
2.50	91	81	72	89	79	72	84	76	70	60
3.00	95	86	78	93	84	77	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	76
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:0.1116A P:25.9W PF:0.9669 Freq:49.99Hz		
UTHDi:0.17% ITHDi:15.86% KDisp:0.9809 Lamp Flux:3220.8lx1 lm		
NAME: HV5882T-26W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Havit Lighting	SUR.:	Shielding Angle:

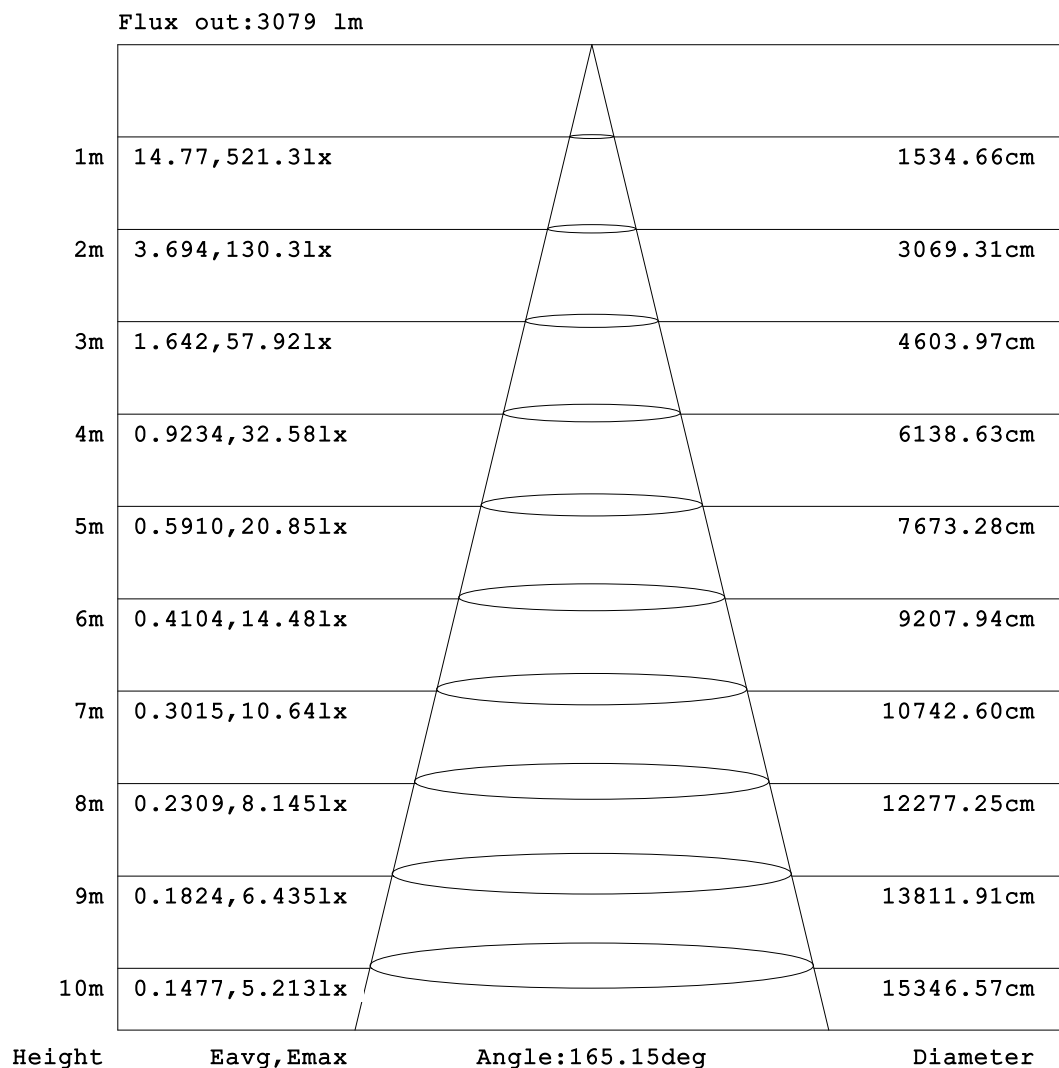


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2023-09-12

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:0.1116A P:25.9W PF:0.9669 Freq:49.99Hz		
UTHDi:0.17% ITHDi:15.86% KDisp:0.9809 Lamp Flux:3220.81x1 lm		
NAME: HV5882T-26W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Havit Lighting	SUR.:	Shielding Angle:



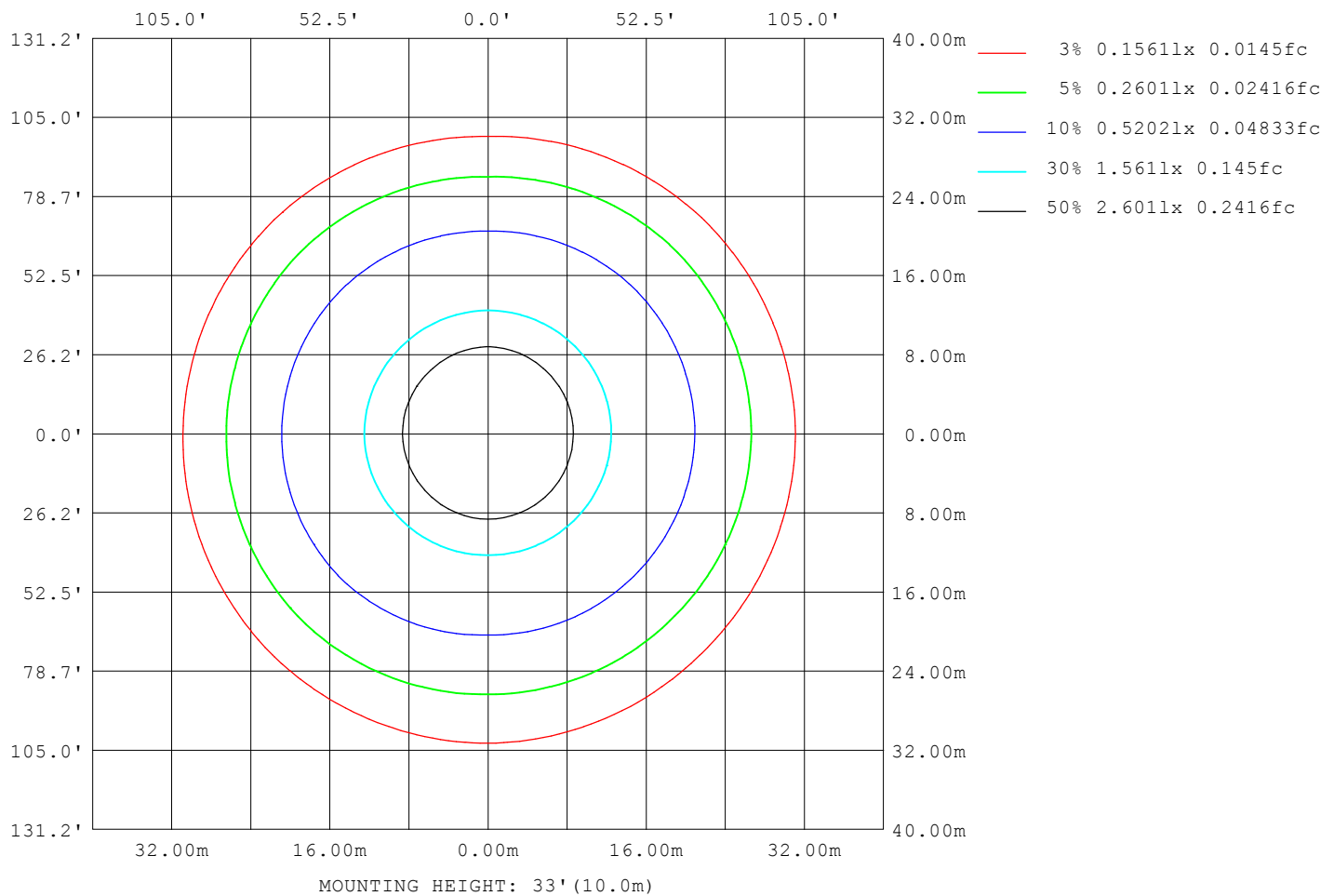
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.1116A P:25.9W PF:0.9669 Freq:49.99Hz		
UTHDi:0.17% ITHDi:15.86% KDisp:0.9809 Lamp Flux:3220.8lx1 lm		
NAME: HV5882T-26W-3000K	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:0.1116A P:25.9W PF:0.9669 Freq:49.99Hz UTHDi:0.17% ITHDi:15.86% KDisp:0.9809 Lamp Flux:3220.81x1 lm		
NAME: HV5882T-26W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Havit Lighting	SUR.:	Shielding Angle:

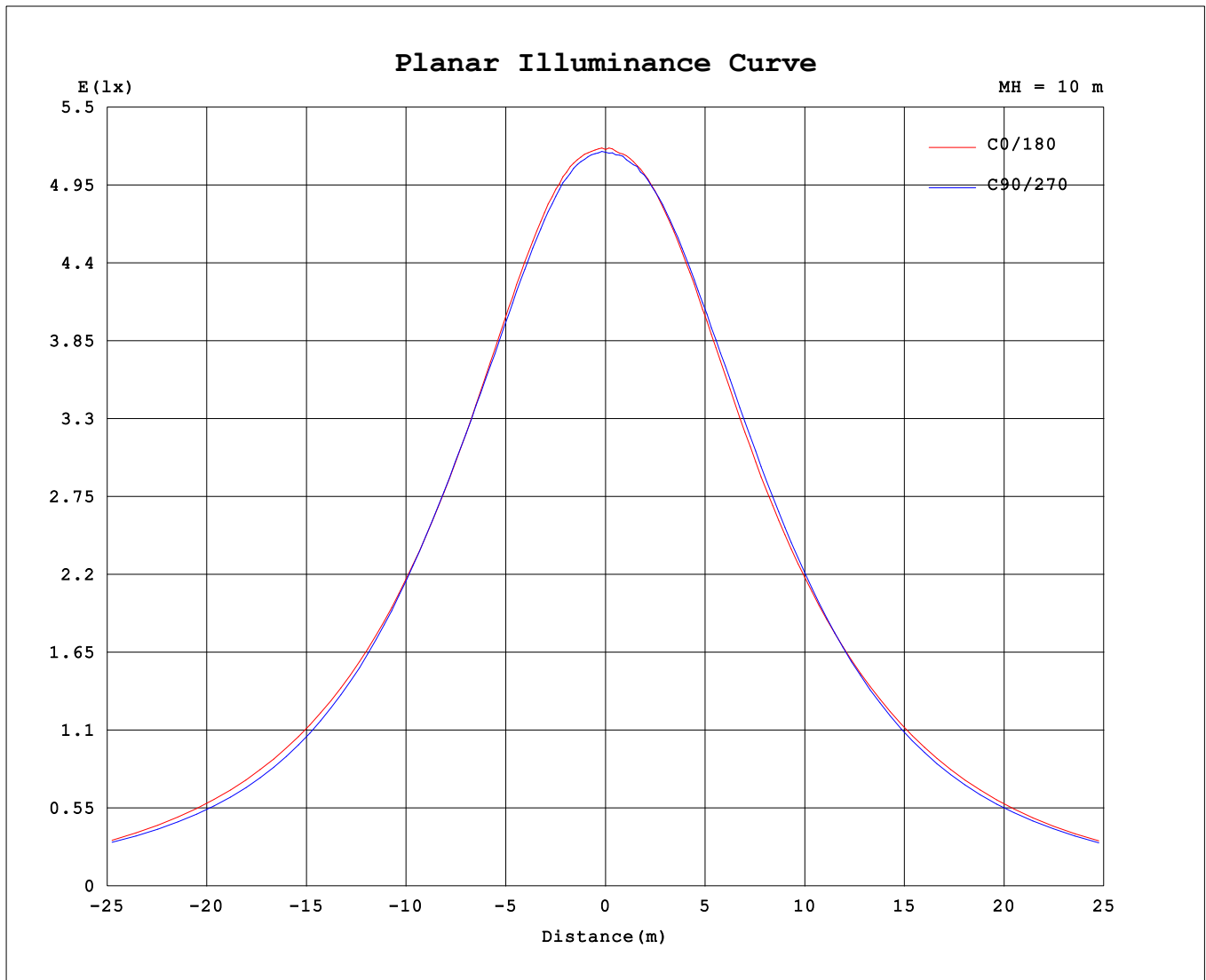
AvgL	cd/m2
L_0~180 (65) av	60707
L_0~180 (75) av	70507
L_0~180 (85) av	96944
L_90~270 (65) av	57405
L_90~270 (75) av	72066
L_90~270 (85) av	107147
L_45 (65) av	60020
L_45 (75) av	71567
L_45 (85) av	99303

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:0.1116A P:25.9W PF:0.9669 Freq:49.99Hz UTHDi:0.17% ITHDi:15.86% KDisp:0.9809 Lamp Flux:3220.81x1 lm		
NAME: HV5882T-26W-3000K	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:

```