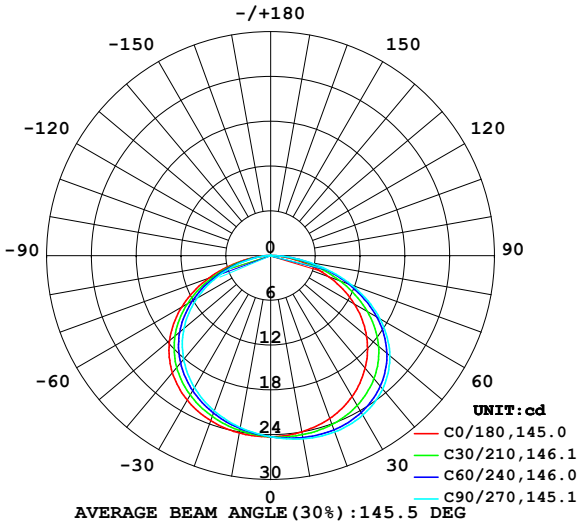
LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: HCP-3426350 12W B	TYPE: 2835 B	WEIGHT:
SPEC.:	DIM.: 1*0.01	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:

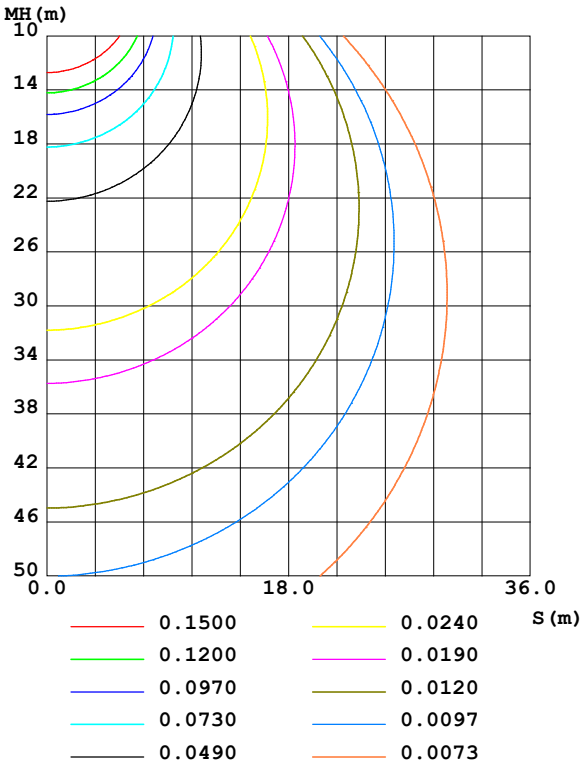
DATA OF LAMP		PHOTOMETRIC DATA		Eff: 18.05 lm/W	
MODEL	HCP-3426350	Imax(cd)	25.13	S/MH(C0/180)	1.37
NOMINAL POWER(W)	20	LOR(%)	100.0	S/MH(C90/270)	1.26
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	82.589	η UP,DN(C0-180)	0.0,54.6
NOMINAL FLUX(lm)	82.5893	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,45.4
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	24	η down(%)	100.0	CIBSE SHR MAX	1.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(30%):145.5 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JING
Test Date:2022-05-23

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [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	23.98	24.55	24.93	24.68	24.14	23.67	23.39	23.53	0- 10	2.309	2.309	2.8,2.8
20	23.21	24.46	25.13	24.71	23.53	22.68	22.14	22.40	10- 20	6.756	9.065	11,11
30	21.82	23.73	24.69	24.18	22.36	21.24	20.43	20.80	20- 30	10.65	19.71	23.9,23.9
40	19.70	22.19	23.34	22.82	20.48	19.18	18.15	18.61	30- 40	13.54	33.25	40.3,40.3
50	16.78	19.60	20.85	20.30	17.70	16.33	15.16	15.70	40- 50	14.93	48.18	58.3,58.3
60	12.95	15.68	16.91	16.28	13.75	12.47	11.38	11.90	50- 60	14.33	62.51	75.7,75.7
70	8.298	10.50	11.56	10.84	8.832	7.738	6.891	7.368	60- 70	11.45	73.97	89.6,89.6
80	3.519	4.743	5.335	4.738	3.626	2.985	2.596	2.895	70- 80	6.748	80.71	97.7,97.7
90	0.2696	0.2672	0.0405	0.1301	0.1763	0.1660	0.0002	0.2140	80- 90	1.855	82.57	100,100
100	0	0	0	0	0	0	0	0	90-100	0.0202	82.59	100,100
110	0	0	0	0	0	0	0	0	100-110	0	82.59	100,100
120	0	0	0	0	0	0	0	0	110-120	0	82.59	100,100
130	0	0	0	0	0	0	0	0	120-130	0	82.59	100,100
140	0	0	0	0	0	0	0	0	130-140	0	82.59	100,100
150	0	0	0	0	0	0	0	0	140-150	0	82.59	100,100
160	0	0	0	0	0	0	0	0	150-160	0	82.59	100,100
170	0	0	0	0	0	0	0	0	160-170	0	82.59	100,100
180	0	0	0	0	0	0	0	0	170-180	0	82.59	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

0 - 60 DEG Zonal Flux:62.512 %lum: 75.7%
0 - 60 DEG Zonal Flux:62.512 %lum: 75.7%
All measured values may vary less than 35 %
from the average measured value in the 0 to 130 deg. zone: 12.5%
All measured values in the 0 to 130 deg. zone
may vary less than 50% from the average value of itself: 18.5%

C Range: 0 - 360DEG
C Interval: 30.0DEG
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Operators:JING
Test Date:2022-05-23

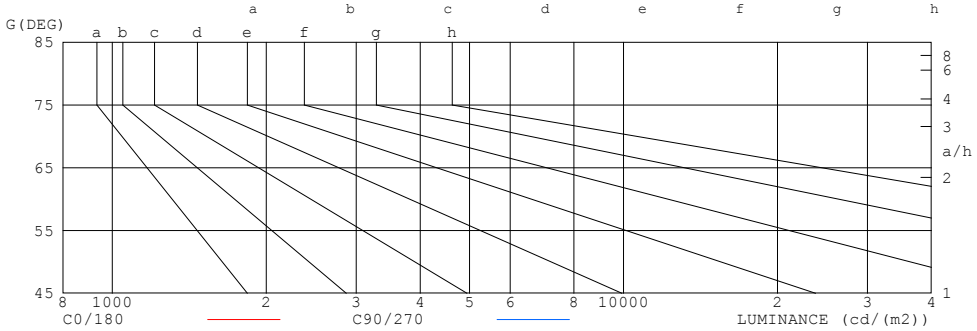
γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

NAME: HCP-3426350 12W B	**TYPE: 2835 B**	**WEIGHT:**
SPEC.:	**DIM.: 1*0.01**	**SERIAL No.:**
MFR.: HAVIT COMMERCIAL	**SUR.:**	**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	170	271
80	203	307
75	227	328
70	243	338
65	253	340
60	259	338
55	261	332
50	261	324
45	259	315

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Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

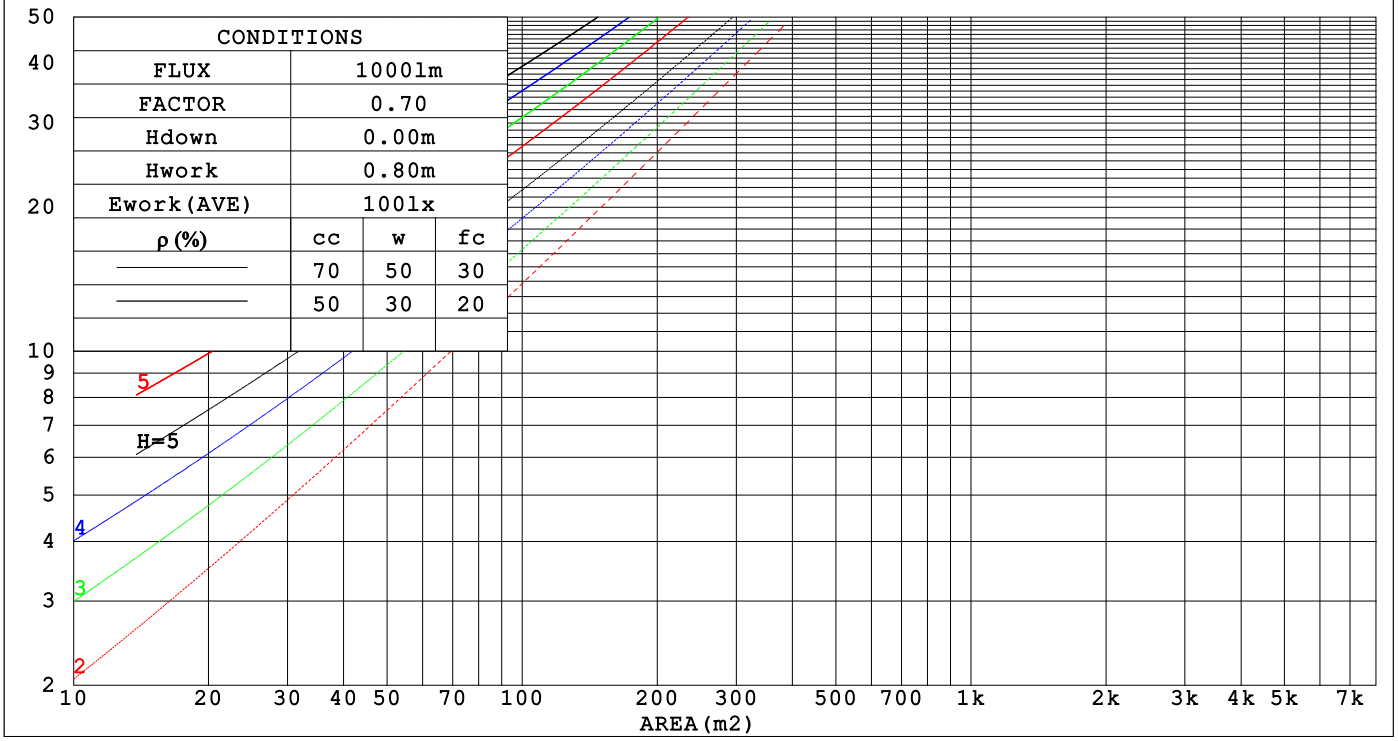
CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: HCP-3426350 12W B	TYPE: 2835 B	WEIGHT:
SPEC.:	DIM.: 1*0.01	SERIAL No.:
MFR.: HAVIT COMMERCIAL	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	.00
1.0	1.03	.98	.94	1.01	.97	.93	.96	.93	.90	.92	.90	.87	.89	.87	.84	.82
2.0	.89	.82	.76	.87	.80	.75	.83	.78	.73	.80	.75	.71	.77	.73	.70	.67
3.0	.78	.69	.62	.76	.68	.62	.73	.66	.60	.70	.64	.59	.67	.63	.58	.56
4.0	.68	.59	.52	.67	.58	.52	.64	.57	.51	.62	.55	.50	.60	.54	.49	.47
5.0	.61	.51	.44	.59	.51	.44	.57	.50	.44	.55	.48	.43	.53	.47	.43	.40
6.0	.54	.45	.38	.53	.45	.38	.51	.44	.38	.50	.43	.37	.48	.42	.37	.35
7.0	.49	.40	.34	.48	.40	.33	.47	.39	.33	.45	.38	.33	.44	.37	.33	.31
8.0	.45	.36	.30	.44	.35	.30	.43	.35	.29	.41	.34	.29	.40	.34	.29	.27
9.0	.41	.32	.27	.40	.32	.27	.39	.32	.26	.38	.31	.26	.37	.31	.26	.24
10.0	.38	.29	.24	.37	.29	.24	.36	.29	.24	.35	.28	.24	.34	.28	.24	.22

LAMPS

LUMINAIRE BUDGETARY DIAGRAM



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JING
Test Date:2022-05-23

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

WEC AND CCEC

NAME: HCP-3426350 12W B	TYPE: 2835 B	WEIGHT:
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MFR.: HAVIT COMMERCIAL	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			Wall Exitance Coeffcients(WEC)												
0.0																
1.0	.326	.186	.059	.319	.182	.058	.306	.176	.056	.294	.169	.054	.282	.164	.053	
2.0	.306	.168	.051	.299	.165	.051	.288	.160	.050	.277	.155	.049	.267	.151	.048	
3.0	.282	.150	.045	.276	.148	.045	.266	.144	.044	.256	.140	.043	.247	.137	.042	
4.0	.259	.135	.040	.254	.133	.039	.245	.130	.039	.236	.127	.038	.228	.124	.038	
5.0	.239	.122	.035	.234	.120	.035	.226	.118	.035	.218	.115	.034	.211	.113	.034	
6.0	.221	.111	.032	.217	.109	.032	.209	.107	.031	.202	.105	.031	.196	.103	.031	
7.0	.205	.101	.029	.201	.100	.029	.195	.098	.028	.189	.097	.028	.183	.095	.028	
8.0	.191	.093	.026	.188	.092	.026	.182	.091	.026	.176	.089	.026	.171	.088	.026	
9.0	.178	.086	.024	.176	.086	.024	.170	.084	.024	.165	.083	.024	.161	.082	.024	
10.0	.167	.080	.022	.165	.080	.022	.160	.078	.022	.156	.077	.022	.151	.076	.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	.191	.191	.191	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.182	.156	.133	.155	.134	.115	.106	.092	.079	.061	.053	.046	.020	.017	.015	
2.0	.174	.132	.096	.149	.114	.083	.102	.079	.058	.059	.046	.034	.019	.015	.011	
3.0	.167	.115	.073	.143	.099	.063	.098	.069	.044	.057	.040	.026	.018	.013	.009	
4.0	.159	.101	.057	.137	.088	.050	.094	.061	.035	.054	.036	.021	.018	.012	.007	
5.0	.152	.091	.046	.131	.079	.040	.090	.055	.028	.052	.032	.017	.017	.011	.006	
6.0	.145	.083	.038	.124	.072	.033	.086	.050	.024	.050	.030	.014	.016	.010	.005	
7.0	.138	.076	.033	.119	.066	.028	.082	.046	.020	.048	.027	.012	.015	.009	.004	
8.0	.131	.070	.028	.113	.061	.025	.078	.043	.017	.045	.025	.010	.015	.008	.003	
9.0	.125	.065	.025	.108	.057	.022	.075	.040	.015	.043	.024	.009	.014	.008	.003	
10.0	.119	.061	.022	.103	.053	.019	.071	.037	.014	.042	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JING
Test Date:2022-05-23

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

NAME: HCP-3426350 12W B	TYPE: 2835 B	WEIGHT:
SPEC.:	DIM.: 1*0.01	SERIAL No.:
MFR.: HAVIT COMMERCIAL	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	17.4	19.0	17.7	19.2	19.4	18.4	20.0	18.7	20.2	20.4
3H	19.0	20.5	19.3	20.7	21.0	20.3	21.8	20.6	22.0	22.3
4H	19.6	21.0	20.0	21.3	21.6	21.1	22.5	21.4	22.7	23.0
6H	20.1	21.4	20.4	21.7	22.0	21.7	23.0	22.0	23.3	23.6
8H	20.2	21.5	20.6	21.8	22.1	21.9	23.1	22.2	23.4	23.7
12H	20.3	21.5	20.6	21.8	22.1	22.0	23.2	22.4	23.5	23.8
4H 2H	18.3	19.7	18.6	20.0	20.2	19.1	20.5	19.4	20.7	21.0
3H	20.1	21.3	20.5	21.6	21.9	21.1	22.4	21.5	22.7	23.0
4H	20.9	22.0	21.2	22.3	22.6	22.0	23.2	22.4	23.5	23.8
6H	21.4	22.4	21.8	22.8	23.1	22.8	23.8	23.2	24.1	24.5
8H	21.6	22.5	22.0	22.9	23.3	23.0	24.0	23.4	24.3	24.7
12H	21.7	22.6	22.1	22.9	23.3	23.2	24.1	23.6	24.5	24.9
8H 4H	21.3	22.2	21.7	22.6	23.0	22.3	23.2	22.7	23.6	24.0
6H	22.0	22.8	22.5	23.2	23.6	23.2	24.0	23.7	24.4	24.8
8H	22.3	23.0	22.8	23.4	23.9	23.6	24.3	24.0	24.7	25.1
12H	22.5	23.1	23.0	23.5	24.0	23.8	24.4	24.3	24.9	25.4
12H 4H	21.3	22.2	21.8	22.6	23.0	22.3	23.2	22.8	23.6	24.0
6H	22.1	22.8	22.6	23.2	23.7	23.3	24.0	23.7	24.4	24.8
8H	22.5	23.0	22.9	23.5	24.0	23.7	24.3	24.2	24.7	25.2
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.1				
1.5H	+ 0.3 / - 0.4					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.6					+ 0.1 / - 0.3				

CIE Pub.117, 82.59 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -8.7)
Area: 0.1 m2

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γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

NAME: HCP-3426350 12W B	TYPE: 2835 B	WEIGHT:
SPEC.:	DIM.: 1*0.01	SERIAL No.:
MFR.: HAVIT COMMERCIAL	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) x RCR = 5									
k = 0.60	55	43	36	54	43	36	53	42	35	29
0.80	65	53	45	64	52	45	62	52	45	37
1.00	74	62	54	72	61	54	70	63	54	46
1.25	81	70	62	79	69	62	77	68	61	54
1.50	86	76	68	84	75	68	81	73	67	59
2.00	93	84	78	92	83	77	88	81	75	67
2.50	98	89	83	95	88	82	92	85	80	72
3.00	101	94	88	99	92	87	95	89	85	76
4.00	105	99	94	103	98	93	99	94	90	81
5.00	108	103	99	105	101	97	101	97	94	85
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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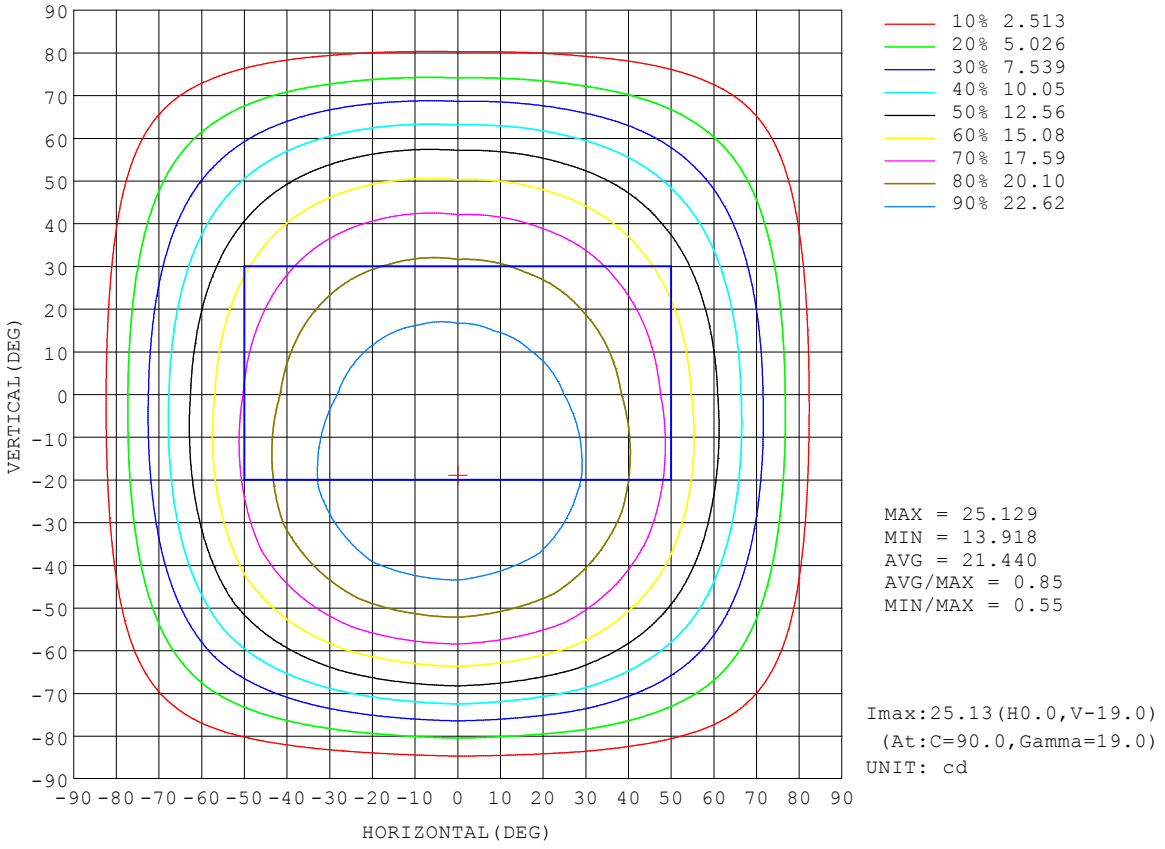
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:



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AAI Figure

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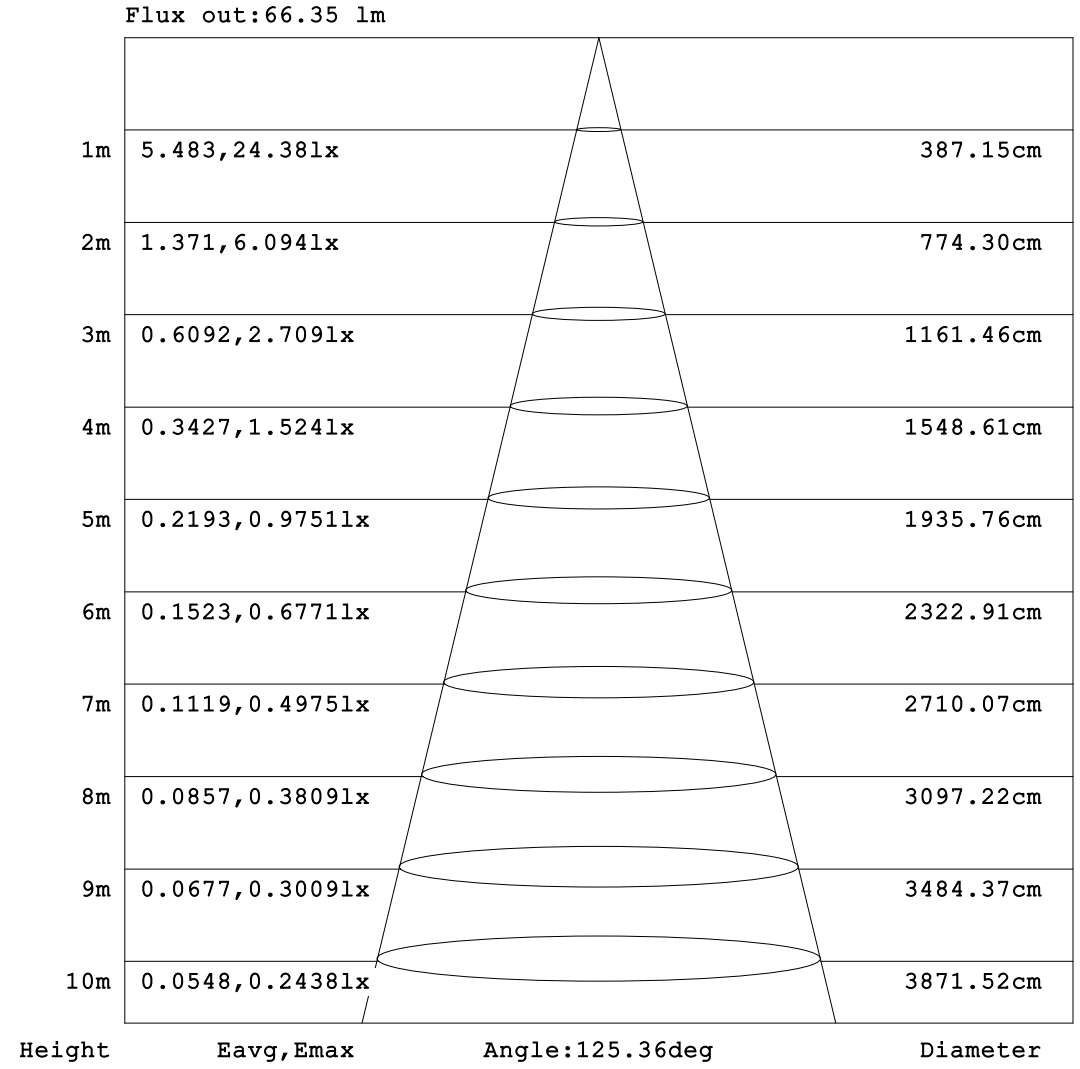

Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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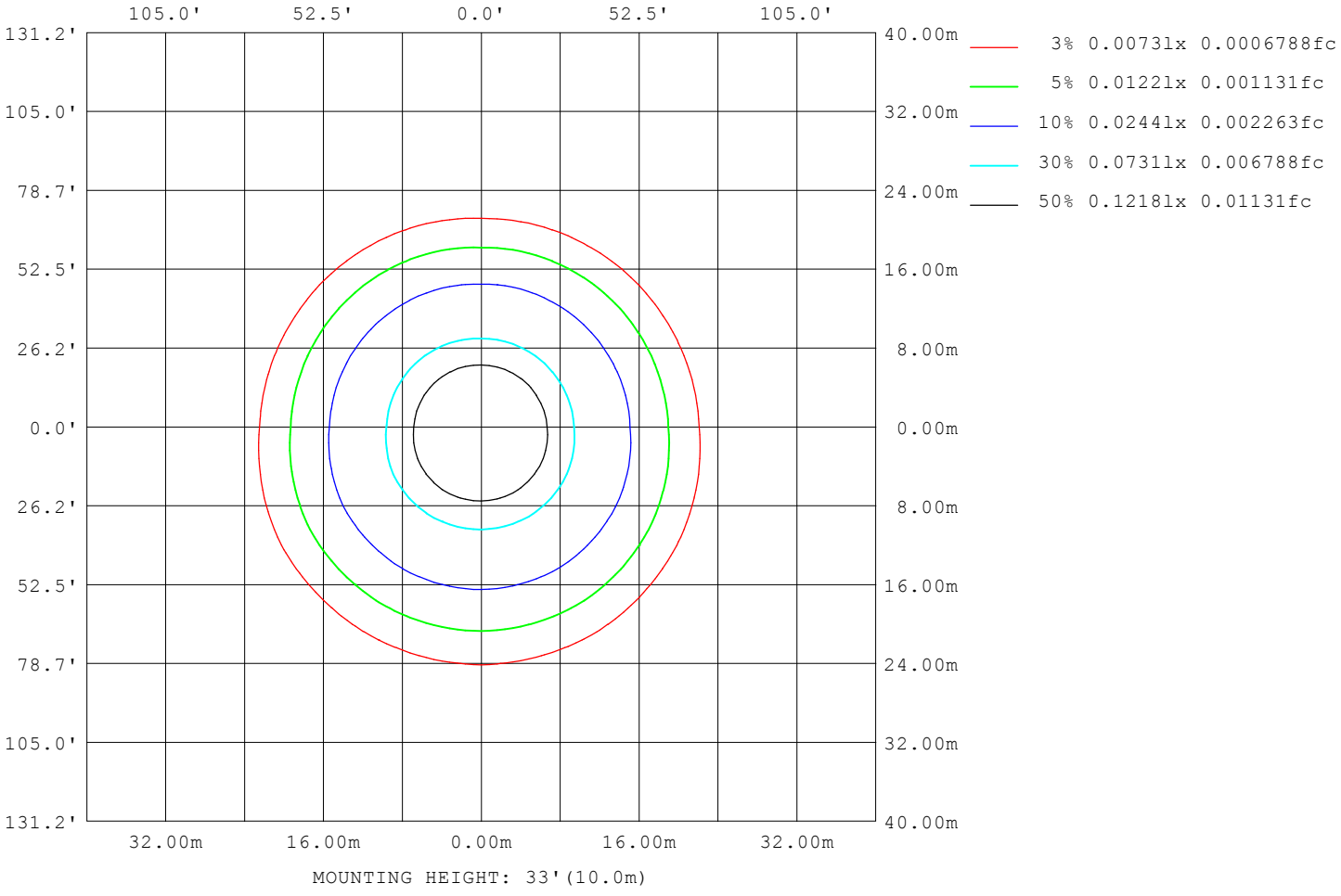

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LED Avg.L Report

NAME: HCP-3426350 12W B	TYPE: 2835 B	WEIGHT:
SPEC.:	DIM.: 1*0.01	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:

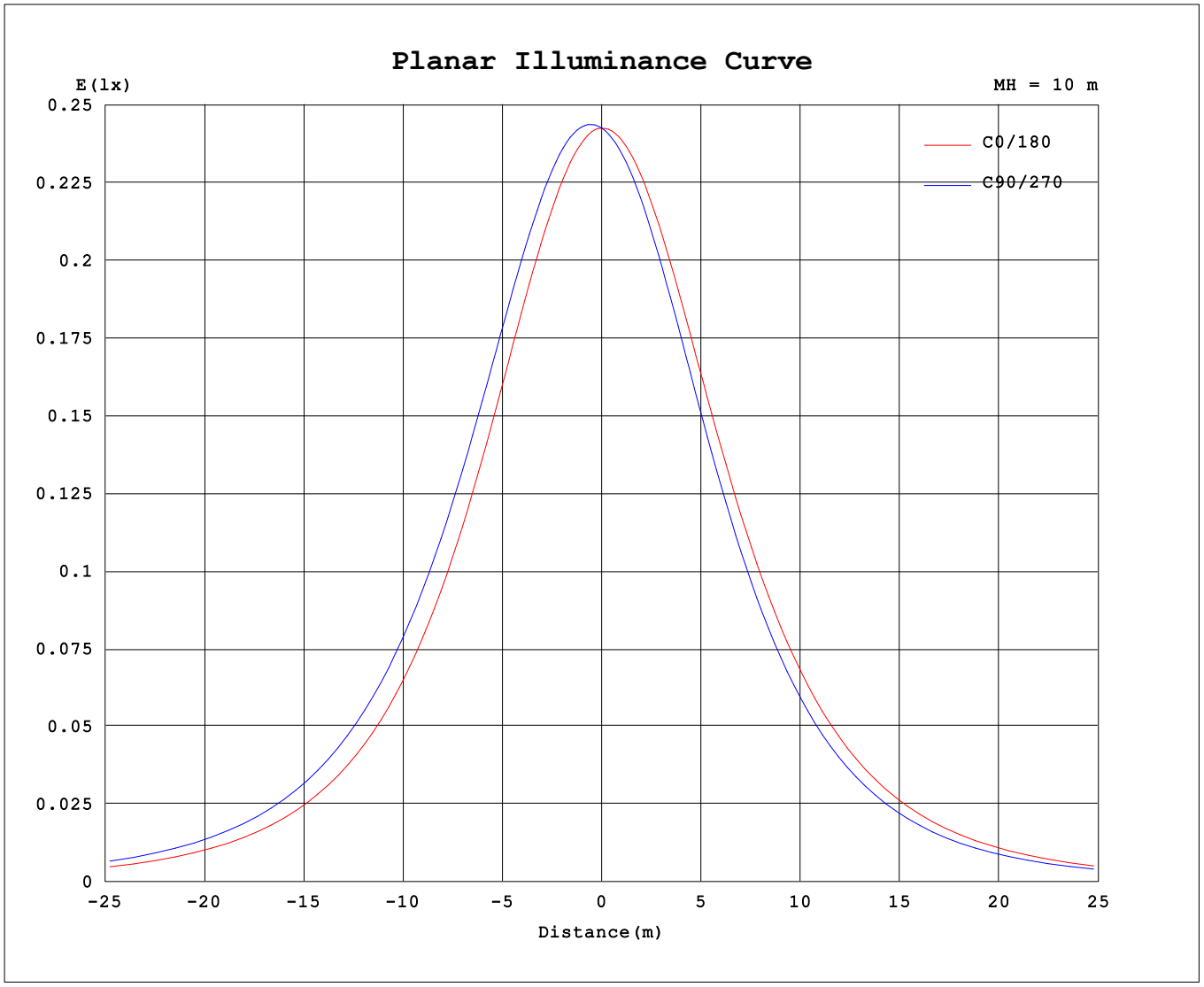
AvgL	cd/m2
L_0~180(65)av	261
L_0~180(75)av	233
L_0~180(85)av	169
L_90~270(65)av	279
L_90~270(75)av	254
L_90~270(85)av	188
L_45(65)av	278
L_45(75)av	249
L_45(85)av	180

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JING
Test Date:2022-05-23

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

Planar Illuminance Curve



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LUMINOUS DISTRIBUTION INTENSITY DATA

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Table--1 UNIT: cd

γ (DEG) \ C(DEG)	0	30	60	90	120	150	180	210	240	270	300	330
0	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3
5	24.2	24.4	24.6	24.6	24.6	24.5	24.3	24.1	23.9	23.9	23.9	24.0
10	24.0	24.4	24.7	24.9	24.8	24.5	24.1	23.8	23.5	23.4	23.4	23.6
15	23.7	24.3	24.8	25.1	25.0	24.5	23.9	23.4	23.0	22.8	22.9	23.2
20	23.2	24.1	24.8	25.1	25.0	24.4	23.5	22.9	22.4	22.1	22.2	22.6
25	22.6	23.7	24.7	25.0	24.9	24.1	23.0	22.3	21.7	21.3	21.5	21.9
30	21.8	23.2	24.3	24.7	24.6	23.7	22.4	21.6	20.9	20.4	20.6	21.0
35	20.9	22.5	23.7	24.1	24.1	23.2	21.5	20.7	19.9	19.4	19.5	20.0
40	19.7	21.5	22.9	23.3	23.3	22.3	20.5	19.6	18.8	18.1	18.4	18.9
45	18.3	20.3	21.7	22.3	22.2	21.2	19.2	18.3	17.5	16.8	17.0	17.5
50	16.8	18.9	20.3	20.8	20.8	19.8	17.7	16.7	15.9	15.2	15.5	15.9
55	15.0	17.1	18.6	19.1	19.0	18.0	15.9	14.9	14.1	13.4	13.7	14.2
60	12.9	14.9	16.4	16.9	16.7	15.8	13.7	12.9	12.1	11.4	11.7	12.1
65	10.7	12.5	13.9	14.4	14.1	13.3	11.4	10.5	9.84	9.19	9.46	9.93
70	8.30	9.88	11.1	11.6	11.2	10.5	8.83	8.03	7.44	6.89	7.15	7.59
75	5.87	7.15	8.12	8.49	8.12	7.50	6.18	5.52	5.02	4.64	4.82	5.24
80	3.52	4.43	5.06	5.34	4.96	4.52	3.63	3.16	2.81	2.60	2.74	3.05
85	1.48	1.92	2.20	2.36	2.02	1.81	1.46	1.18	1.09	0.92	1.10	1.23
90	0.27	0.31	0.22	0.04	0.10	0.16	0.18	0.17	0.16	0.00	0.19	0.23
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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